7. 小都市給水計画

データ 7.1 82小都市の概要 (1/33)

1 SNNPRS 52 towns (listed by ID number)

S01 Buei			
1.	Town status & population	Woreda Capital / 6,961 persons	
2.	Water potential (quantity) & Water quality	Feasible / Good	
3.	Water coverage(20lpcd)	149% (water consumption)	
4.	Accessibility	All paved, 30km from Butajira	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	New completed well to be additional water source in addition to the existing well.	
S02	S02 Kela		
1.	Town status & population	Town Administrations / 3,519 persons	
2.	Water potential (quantity) & Water quality	Feasible / Good	
3.	Water coverage(20lpcd)	81% (water consumption)	
4.	Accessibility	All paved, 21 km from Bitajira	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle slope, construction work is quite required ingenuities.	
7.	Others particulars	New completed well to be additional water source in addition to the existing spring.	
S03	Tiya		
1.	Town status & population	Municipal、1,937 persons	
2.	Water potential (quantity) & Water quality	Low / Good	
3.	Water coverage(20lpcd)	54%	
4.	Accessibility	All paved, 47 km from Bitajira	

データ 7.1 82小都市の概要 (2/33)

5.	Existing rights& Disputes	Unidentified of both.
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6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
S04	Suten	
1.	Town status & population	Town Administrations / 1,298 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	58% (consumption of only water faucets)
4.	Accessibility	All paved, 43 km from Bitajira
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
S06	Koshe	
1.	Town status & population	Woreda Capital / 6,858 persons
2.	Water potential (quantity) & Water quality	Feasible / Unfeasible (Fluoride)
3.	Water coverage(20lpcd)	94% (water consumption)
4.	Accessibility	All paved, 22 km from Bitajira
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	New well which is constructed by NGO to be additional water source in addition to the existing well.
S07	Lisana	
1.	Town status & population	Town Administrations / 1,711 persons
2.	Water potential (quantity)	Feasible / Good

データ 7.1 82小都市の概要 (3/33)

	& Water quality		
3.	Water coverage(20lpcd)	200% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 22 km from Bitajira	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.	
S09	Dosha		
1.	Town status & population	Municipal / 1,881 persons	
2.	Water potential (quantity) & Water quality	Feasible / Good	
3.	Water coverage(20lpcd)	10%	
4.	Accessibility	Paved + Base-course + Sub-grade, 28 km from Hosaina	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.	
S11	Fonko		
1.	Town status & population	Town Administrations / 2,380 persons	
2.	Water potential (quantity) & Water quality	Feasible / Good	
3.	Water coverage(20lpcd)	139% (water consumption)	
4.	Accessibility	All paved, 28 km from Hosaina	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle hills, construction work is not difficult.	
7.	Others particulars		
S12	S12 Wada		

データ 7.1 82小都市の概要 (4/33)

1.	Town status & population	Municipal / 2,113 persons
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.
3.	Water coverage(20lpcd)	3%
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 38 km from Sodo
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle hills, construction work is not difficult except water sources.
7.	Others particulars	Out of the study area.
S13	Anigacha	
1.	Town status & population	Woreda Capital / 6,811 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	88% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 40 km from Hosaina
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Due to growth and water consumption of residents, including surrouding villages, and frequently damaged pipes (water outage, reducting water faucets), water coverage has been declined. Therefore, it to be expected the rates of water poverty growth rapidly.
S14	Adilo	
1.	Town status & population	Municipal / 4,659 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	16% (water consumption)
4.	Accessibility	All paved, 49 km from Sodo
5.	Existing rights& Disputes	Unidentified of boths.
6.	Technical specifications& implementation for new water	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small

データ 7.1 82小都市の概要 (5/33)

	supply facilities	town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Water office has and take advantage the drawings of the existing water pipe line, and they are planning new water supply facility.
S15	Daniboya	
1.	Town status & population	Woreda Capital / 8,111 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	45% (water consumption)
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 52 km from Hosaina
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	The willing to pay of residents is high.
S16	Leku	
1.	Town status & population	Municipal / 11,810 persons
2.	Water potential (quantity) & Water quality	High / Good
3.	Water coverage(20lpcd)	157% (water consumption)
4.	Accessibility	All paved, 22 km from Awasa
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	The existing water supply facility was constructed by NGOon 2008.
S17	Kebado	
1.	Town status & population	Woreda Capital / 8,365 persons
2.	Water potential (quantity) & Water quality	High / Good
3.	Water coverage(20lpcd)	30% (water consumption)

データ 7.1 82小都市の概要 (6/33)

4.	Accessibility	Paved + Base-course + Sub-grade, 39 km from Awasa
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, which is not required more advanced technology. The small town is on the gentle ridge, however, construction work is not difficult.
7.	Others particulars	
S18	Teferi Kela	
1.	Town status & population	Municipal / 4,178 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	40% (water consumption)
4.	Accessibility	All paved, 15 km from Dila
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Town has 2 wells and 2 nd . well was constructed by SNNPRon 2009. However, this well is not under operationg due to there is no plan of other water supply facility.
S19	Gereche	
1.	Town status & population	Woreda Capital / 2,986 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	30% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 39 km from Awasa
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle slope, however, construction work is not difficult.
7.	Others particulars	The distance to the water source, womens and children has become a burden to caeey water.
S20	Manicho	

データ 7.1 82小都市の概要 (7/33)

1.	Town status & population	Town Administrations / 4,017 persons
2.	Water potential (quantity) & Water quality	Low / Permissible (except Iron)
3.	Water coverage(20lpcd)	2.5% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 36 km from Awasa
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. However, it is necessary to consider of simple water treatmentfacility to reduce Iron for improvement water quality. The small town is on the gentle ridge, however, construction work is not difficult.
7.	Others particulars	The existing water supply facility, which constructed on 2004 is not commensurate with design for town population. Hence, it is necessary to construct new facility which to be included facility expansion.
S21	Bokasa	
1.	Town status & population	Municipal / 2,039 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	5% (water consumption), 71% (water product)
4.	Accessibility	Paved + Base-course + Sub-grade, 39 km from Awasa
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the ridge, construction works is required some ingenuity.
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
S22	Chuko	
1.	Town status & population	Woreda Capital / 8,884 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	1,000% (water consumption)
4.	Accessibility	All paved, 24 km from Dila
5.	Existing rights& Disputes	Unidentified of both.

データ 7.1 82小都市の概要 (8/33)

6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Credibility of above water coverage is consideredlow. This facility has 3 wells which are under operation and in good operating order.
S23	Chuko	
1.	Town status & population	Municipal / 14,626 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	58% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 24 km from Awasa
5.	Existing rights& Disputes	This small town has been sporadic conflicts with residents.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Town population is more than 14,000 persons in accordance with list of the candidate small towns.
S24	Ela	
1.	Town status & population	Municipal / 5,259 persons
2.	Water potential (quantity) & Water quality	Feasible / Unfeasible (Fluoride)
3.	Water coverage(20lpcd)	194% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 22 km from Awasa
5.	Existing rights& Disputes	This small town has been sporadic conflicts with residents.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, however, construction works is required some ingenuities.
7.	Others particulars	The existing water source (spring) has been convayed by intake facility and conveyance pipes which is consumed less than half of full amount of spring and rest of spring is discharged into the stream. Hence, the capacity of spring water is enough for expansion. This small town is a priority

データ 7.1 82小都市の概要 (9/33)

		of tranquility for public safety.
S27	Fisha Genet	
1.	Town status & population	Municipal / 4,189 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	33% (water consumption)
4.	Accessibility	All paved, 45 km from Dila
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle ridge, however, construction work is not difficult.
7.	Others particulars	Water pumping from the existing well is operating by "Mono-pump". It is not able to operate long periods due to aging, decrepit.
S28	Gedeb	
1.	Town status & population	Municipal / 10,021 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	8% (water consumption)
4.	Accessibility	All paved, 62 km from Dila
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle ridge, however, construction work is not difficult.
7.	Others particulars	
S30	Tabela (Humbo)	
1.	Town status & population	Woreda Capital / 6,246 persons
2.	Water potential (quantity) & Water quality	Feasible / Permissible
3.	Water coverage(20lpcd)	36% (water consumption)
4.	Accessibility	All paved, 20 km from Sodo
5.	Existing rights& Disputes	Unidentified of both.

データ 7.1 82小都市の概要 (10/33)

S35	S35 Chenicha		
7.	Others particulars	The new well (2 nd .) which was constructed by NGO on 2005 has not yet used for water supply.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle flat terrains, construction work is not difficult.	
5.	Existing rights& Disputes	Unidentified of both.	
4.	Accessibility	Paved + Base-course + Sub-grade, 48 km from Arba Minch	
3.	Water coverage(20lpcd)	229% (water consumption)	
2.	Water potential (quantity) & Water quality	Low / Good	
1.	Town status & population	Woreda Capital / 5,831 persons	
S34	Birbir		
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns. In accordance with the result of water quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop good water quality around this area.	
6.	Tachnical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult.	
5.	Existing rights& Disputes	This small town has been sporadic conflicts of the existing water right with residents.	
4.	Accessibility	Paved + Base-course + Sub-grade, 42 km from Sodo	
3.	Water coverage(20lpcd)	51%	
2.	Water potential (quantity) & Water quality	Feasible / Unfeasible (Fluoride)	
1.	Town status & population	Town Administrations / 1,702 persons	
S32	Dimtu		
7.	Others particulars	This town population has been growth due to have a major junction for Awasa, Sod and Arba-Minch.Therefore, beneficiary effect of new water supply facility is high.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	

データ 7.1 82小都市の概要 (11/33)

		1
1.	Town status & population	Woreda Capital / 10,223 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	33% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 30 km from Arba Minch
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle slope, construction work is not difficult.
7.	Others particulars	The new well (2 nd .) and water supply facility which were constructed by NGO on 2010 is not contributed the effect of water coverage due to lack of design.
S36	Ezo	
1.	Town status & population	Municipal / 1,822 persons
2.	Water potential (quantity) & Water quality	Low / Exist area of Fluoride
3.	Water coverage(20lpcd)	0% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 47 km from Arba Minch
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the ridge, however, construction works is required some ingenuities arround water sources.
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
S37	Dorze	
1.	Town status & population	Municipal / 1,256 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	1% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 26 km from Arba Minch
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction works is

データ 7.1 82小都市の概要 (12/33)

		required some ingenuities arround water sources.
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7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
S38	Kele Kele	
1.	Town status & population	Municipal / 8,632 persons
2.	Water potential (quantity) & Water quality	Low / Exist area of Fluoride
3.	Water coverage(20lpcd)	89% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 99 km from Dila
5.	Existing rights& Disputes	This small town has been sporadic conflicts of the existing water right with residents along main road.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hills, construction works is required some ingenuities. There are some risks of troubles, conflicts with neighborhoods for development of water sources.
7.	Others particulars	This small town is a priority of tranquility for public safety.
S39	Soyama	1
1.	Town status & population	Municipal / 6,268 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	1.2%
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 149 km from Dila
5.	Existing rights& Disputes	This small town has been sporadic conflicts with residents.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the ridge, construction works is required some ingenuity. There are some risks of troubles, conflicts with neighborhoods for development of water sources.
7.	Others particulars	This small town is a priority of tranquility for public safety.
S41	Segen	:
1.	Town status & population	Town Administrations / 3,626 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	106% (water consumption)
	:	:

データ 7.1 82小都市の概要 (13/33)

4.	Accessibility	Paved + Base-course + Sub-grade, 65 km from Arba Minch	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	
7.	Others particulars		
S42	Gidole		
1.	Town status & population	Municipal / 13,176 persons	
2.	Water potential (quantity) & Water quality	Low / Exist area of Fluoride	
3.	Water coverage(20lpcd)	34% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 42 km from Arba Minch	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle slope, construction works is required some ingenuities arround water sources.	
7.	Others particulars	Town population is more than 13,000 persons in accordance with list of the candidate small towns.	
S43	Kibat		
1.	Town status & population	Municipal / 5,676 persons	
2.	Water potential (quantity) & Water quality	Feasible / Good	
3.	Water coverage(20lpcd)	187% (water consumption)	
4.	Accessibility	All paved, 13 km from Bitajira	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	The watersupply facility has been relatively good managed by the Woreda water office and this office collects water fee for public faucets and private water connections. Morale of operators of the pump station is high.	
S44	S44 Alkeso		

データ 7.1 82小都市の概要 (14/33)

2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 672% (water consumption) 4. Accessibility All paved, 29 km from Bitajira 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities 7. Others particulars Town population is less than 2,000 persons in accord with list of the candidate small towns. 846 Tora 1. Town status & population Woreda Capital / 9,163 persons 2. Water potential (quantity) & Feasible / Good 3. Water coverage(20lpcd) 30% (water consumption) 4. Accessibility Paved + Base-course + Sub-grade, 58 km from Bitajira 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities 7. Others particulars The facility can be designed in an Ethiopian stam whichis not required more advanced technology. The stown is on the generally flat terrains, however, constru works is required some ingenuities arround water source works is required some ingenuities arround water source. 7. Others particulars The watersupply facility has been relatively good man by the Water office and this office collects water fer public faucets and private water connections. How acknowredgement of the specifications of the facility osstaff is low. 847 Mito		Town status & population
4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars 1. Town status & population 2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 1. Town status & population 2. Water potential (quantity) & Feasible / Good 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars 7. Others particulars 8. Water coverage(20lpcd) 9. Water coverage(20lpcd) 10. The facility can be designed in an Ethiopian stan which is not required more advanced technology. The stown is on the generally flat terrains, however, construction work is required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source 7. Others particulars The watersupply facility has been relatively good man by the Water office and this office collects water feepublic faucets and private water connections. How acknownedgement of the specifications of the facility osstaff is low.		
5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars Town population is less than 2,000 persons in accord with list of the candidate small towns. Town status & population Woreda Capital / 9,163 persons Water potential (quantity) & Water quality Water coverage(20lpcd) Water coverage(20lpcd) Accessibility Paved + Base-course + Sub-grade, 58 km from Bitajira Unidentified of both. The facility can be designed in an Ethiopian stan whichis not required more advanced technology. The status of the candidate small towns. Water potential (quantity) & Feasible / Good Water coverage(20lpcd) Water coverage(20lpcd) Unidentified of both. The facility can be designed in an Ethiopian stan whichis not required more advanced technology. The stown is on the generally flat terrains, however, construments in the properties of the public faucets and private water connections. How acknowredgement of the specifications of the facility staff is low.		Water coverage(20lpcd)
6. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian stan whichis not required more advanced technology. The stown is on the generally flat terrains, construction work in difficult. 7. Others particulars Town population is less than 2,000 persons in accord with list of the candidate small towns. S46 Tora 1. Town status & population Woreda Capital / 9,163 persons 2. Water potential (quantity) Feasible / Good 4. Accessibility Paved + Base-course + Sub-grade, 58 km from Bitajira Unidentified of both. The facility can be designed in an Ethiopian stan whichis not required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source 7. Others particulars The watersupply facility has been relatively good man by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facility osstaff is low.		Accessibility
implementation for new water supply facilities whichis not required more advanced technology. The stown is on the generally flat terrains, construction work is difficult. 7. Others particulars Town population is less than 2,000 persons in accord with list of the candidate small towns. S46 Tora 1. Town status & population Woreda Capital / 9,163 persons Feasible / Good Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 4. Accessibility Paved + Base-course + Sub-grade, 58 km from Bitajira Unidentified of both. Technical specifications& implementation for new water supply facilities Unidentified of both. The facility can be designed in an Ethiopian stam whichis not required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source The watersupply facility has been relatively good man by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facility staff is low.		Existing rights& Disputes
with list of the candidate small towns. S46 Tora 1. Town status & population	The small	implementation for new water
1. Town status & population 2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars The watersupply facility has been relatively good man by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facility staff is low. Woreda Capital / 9,163 persons Feasible / Good Feasible / Good Feasible / Good Water consumption) Paved + Base-course + Sub-grade, 58 km from Bitajira Unidentified of both. The facility can be designed in an Ethiopian stand whichis not required more advanced technology. The stown is on the generally flat terrains, however, constructions is required some ingenuities arround water source. The watersupply facility has been relatively good man by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facility staff is low.	ccordance	Others particulars
2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars The watersupply facility has been relatively good man by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facility of the specifications of the		Tora
 & Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars 7. Others particulars 8. Water coverage(20lpcd) 10. Water consumption 10. Paved + Base-course + Sub-grade, 58 km from Bitajira 11. Unidentified of both. 12. The facility can be designed in an Ethiopian stand whichis not required more advanced technology. The stown is on the generally flat terrains, however, construments is required some ingenuities arround water source works is required some ingenuities arround water source by the Water office and this office collects water feed public faucets and private water connections. How acknowredgement of the specifications of the facility of staff is low. 10. S47 Mito 		Town status & population
4. Accessibility Paved + Base-course + Sub-grade, 58 km from Bitajira 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian stand whichis not required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source. The watersupply facility has been relatively good man by the Water office and this office collects water feed public faucets and private water connections. How acknowredgement of the specifications of the facility of staff is low.		
5. Existing rights& Disputes Control of Disputes Unidentified of both. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian stand whichis not required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source. The watersupply facility has been relatively good man by the Water office and this office collects water few public faucets and private water connections. How acknowredgement of the specifications of the facility staff is low. S47 Mito		Water coverage(20lpcd)
6. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian stand whichis not required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source. The watersupply facility has been relatively good manner by the Water office and this office collects water feed public faucets and private water connections. How acknowredgement of the specifications of the facility of the standard private water connections. How acknowredgement of the specifications of the facility of the specifications of the specifications of the facility of the specifications of the facility of the specifications of the speci	jira	Accessibility
implementation for new water supply facilities whichis not required more advanced technology. The stown is on the generally flat terrains, however, construction works is required some ingenuities arround water source. The watersupply facility has been relatively good man by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facility staff is low. S47 Mito		Existing rights& Disputes
by the Water office and this office collects water fee public faucets and private water connections. How acknowredgement of the specifications of the facilityo sstaff is low. S47 Mito	The small nstruction	implementation for new water
	er fee for However,	Others particulars
1 Town status & population Municipal / 3 277 persons		Mito
1. Town status & population Mullicipal, 3,277 persons		Town status & population
2. Water potential (quantity) Feasible / Good & Water quality		
3. Water coverage(20lpcd) 310% (water consumption)		Water coverage(20lpcd)
4. Accessibility Paved + Sub-grade + Dry-season-only, 68 km from Bitaj	Bitajira	Accessibility
5. Existing rights& Disputes Unidentified of both.		Existing rights& Disputes

データ 7.1 82小都市の概要 (15/33)

6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.
7.	Others particulars	
S48	Dalocha	
1.	Town status & population	Woreda Capital / 7,024 persons
2.	Water potential (quantity) & Water quality	Feasible / Unfeasible (Fluoride)
3.	Water coverage(20lpcd)	69% (water consumption)
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 48 km from Bitajira
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the hills, construction works is required some ingenuities arround water sources.
7.	Others particulars	In accordance with the result of water quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop good water quality around this area.
S49	Alem Gebeya	
1.	Town status & population	Municipal / 3,656 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	163% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 46 km from Hosaina
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. The existing pipe lines are necessary to repair and maintenance, however, water source and water reservoir tank can be use continiusly.
7.	Others particulars	
S51	Mazoria	
1.	Town status & population	Kebele Association / 2,730 persons

データ 7.1 82小都市の概要 (16/33)

2.	Water potential (quantity) & Water quality	High / Good
3.	Water coverage(20lpcd)	14% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 48 km from Hosaina
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.
7.	Others particulars	
S52	Wilbareg	
1.	Town status & population	Woreda Capital / 2,197 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	78% (water consumption)
4.	Accessibility	All paved, 53 km from Hosaina
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hills, construction works is required some ingenuities.
7.	Others particulars	
S53	Hamus Gabeya	•
1.	Town status & population	Kebele Association 4,152 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	22%
4.	Accessibility	Paved + Base-course + Sub-grade, 18 km from Bitajira
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	

データ 7.1 82小都市の概要 (17/33)

S54	S54 Hirokofofo		
1.	Town status & population	Town Administrations / 2,590 persons	
2.	Water potential (quantity)	Feasible	
3.	Water coverage(20lpcd) & Beneficiary population	12% / <1,000 psns	
4.	Accessibility	Sub-grade + Dry-season-only, 22 km from Hosaina	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	This small town is a priority of improvement of accessibility for operation & maintenance.	
S55	Weyira Mazoria	•	
1.	Town status & population	Town Administrations / 8,346 persons	
2.	Water potential (quantity) & Water quality	Feasible / Good	
3.	Water coverage(20lpcd)	39% (water consumption)	
4.	Accessibility	All paved, 44 km from Sodo	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this facility. Therefore, water supply condition for the residents is serious.	
S56	Biloya		
1.	Town status & population	Town Administrations / 4,484 persons	
2.	Water potential (quantity) & Water quality	Low / Good	
3.	Water coverage(20lpcd)	4% (water consumption)	
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 53 km from Dila	
5.	Existing rights& Disputes	Unidentified of both.	

データ 7.1 82小都市の概要 (18/33)

6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	The existing water supply facility was constructed by NGO on 1991. This facility has 1 spring as water source which is not staible by seasonal water product. Hence, this facility can not supply enough amount of water.
S57	Chrso Mazoria	
1.	Town status & population	Municipal / 8,500 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	26% (water consumption)
4.	Accessibility	All paved, 59 km from Dila
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle slope, construction work is not difficult.
7.	Others particulars	The eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spring source (On-spot). Hence, this facility can not supply enough amount of water for the residents. New water supply faicility have a high beneficial effect.
S58	Shento	
1.	Town status & population	Woreda Capital / 5,345 persons
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.
3.	Water coverage(20lpcd)	13% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade + Dry-season only, 25 km from Sodo
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Out of the study area. The eixisting water supply facility has four Hand-pumps (2of them are out of order) and one public faucet which is distributed by pipes from other town. Water amount of these Hand-pumps became low due to low down of gournd water level (1~2hours per day) and Spring facility

データ 7.1 82小都市の概要 (19/33)

		(On-spot) is out of order. Hence, this facility can not supply enough amount of water for the residents. New water supply faicility have a high beneficial effect.
S59	Dalbo Atowa	
1.	Town status & population	Town Administrations / 4,007 persons
2.	Water potential (quantity) & Water quality	High / Permissible
3.	Water coverage(20lpcd)	6% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 9 km from Sodo
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	The eixisting water supply facility is one spring (On-spot) where is located adjacent town and constructed by NGO on 1996. This facility can not supply enough amount of water for whole residents due to lack of capacity and decrept. Hence, New water supply faicility have a high beneficial effect.
S60	Lanite	
1.	Town status & population	Kebel Association / 7,221 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	24% (water consumption)
4.	Accessibility	All paved, 23 km from Arba Minch
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	
S61	Gewada	
1.	Town status & population	Town Administrations / 5,967 persons
2.	Water potential (quantity) & Water quality	Low / Exist area of Fluoride
3.	Water coverage(20lpcd)	0% (water consumption)

データ 7.1 82小都市の概要 (20/33)

4.	Accessibility	Paved + Sub-grade + Dry-season-only, 118 km from Arba Minch, Long distance
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hills, construction works is required some ingenuities arround water sources.
7.	Others particulars	This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is quite difficult in term of their income amount.
S62	Udasa	
1.	Town status & population	Municipal / 4,470 persons
2.	Water potential (quantity) & Water quality	Feasible / Unfeasible (Fluoride)
3.	Water coverage(20lpcd)	20% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 37 km from Bitajira
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	
S63	Kawakoto	•
1.	Town status & population	Municipal / 783 persons
2.	Water potential (quantity) & Water quality	High / Good
3.	Water coverage(20lpcd)	27% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 48 km from Bitajira
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.

データ 7.1 82小都市の概要 (21/33)

データ 7.1 82小都市の概要 (22/33)

2 Oromia region 30 towns (listed by ID number)

O01	O01 Iteya		
1.	Town status & population	Municipal / 14,239 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	
3.	Water coverage(20lpcd)	137% (water consumption)	
4.	Accessibility	All paved, 23 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	
7.	Others particulars	Town population is more than 14,000 persons in accordance with list of the candidate small towns. The existing water source is spring. The enterprise of water supply has established the water board with adjacent towns and they are under operating relatively good management.	
O02	2 Ogolcha		
1.	Town status & population	Town Administrations / 4,759 persons	
2.	Water potential (quantity) & Water quality	Low / Unfeasible (Fluoride)	
3.	Water coverage(20lpcd)	129% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 23 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars		
O03	O03 Gonde		
1.	Town status & population	Town Administration / 4,350 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	

データ 7.1 82小都市の概要 (23/33)

3.	Water coverage(20lpcd)	401% (water consumption)	
4.	Accessibility	All paved, 12 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	
7.	Others particulars	The existing watersource is spring. The enterprise of water supply has established the water board with adjacent towns and they are under operating relatively good management.	
O05	5 Kidame-Digelu		
1.	Town status & population	Town Administrations / 1,780 persons	
2.	Water potential (quantity) & Water quality	Low / Exist area of Fluoride	
3.	Water coverage(20lpcd)	535% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 12 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hills, construction works is required some ingenuities arround water sources.	
7.	Others particulars	The existing water source is spring.	
006	O06 Sague		
1.	Town status & population	Municipal / 10,926 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	
3.	Water coverage(20lpcd)	87% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 25 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	The existing water source is spring. Due to the main road along the town to be opened soon, the town population and water demand became growth. Therefore, beneficial effect of	

データ 7.1 82小都市の概要 (24/33)

		the new facility is high.	
O07	O07 Kersa		
1.	Town status & population	Municipal / 9,916 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	
3.	Water coverage(20lpcd)	251% (water consumption)	
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 55 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities.	
7.	Others particulars	Existing water source is spring.	
O09	9 Meraro		
1.	Town status & population	Municipal / 4,725 persons	
2.	Water potential (quantity) & Water quality	Low / Exist area of Fluoride	
3.	Water coverage(20lpcd)	17% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 75 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle slope, construction works is required some ingenuities arround water sources.	
7.	Others particulars	The existing water source (spring) is not staible by seasonal water product. Therefore, beneficial effect of the new facility is high.	
010	O10 Kofele		
1.	Town status & population	Municipal / 14,401 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	
3.	Water coverage(20lpcd)	38% (water consumption)	
4.	Accessibility	All paved, 26 km from Sheshemane	
5.	Existing rights& Disputes	Unidentified of both.	

データ 7.1 82小都市の概要 (25/33)

6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	
7.	Others particulars	Current water supply methord is by private connections and public faucets are not operated.	
O11	Kulumsa		
1.	Town status & population	Town Administration / 3,472 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	
3.	Water coverage(20lpcd)	12% (water consumption)	
4.	Accessibility	All paved, 8 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	
7.	Others particulars	Water supply of this town is transmission pipe line from adjacent town which is installed on 1989. Hence, this facility is litted an amount of water and decrepit. The new water supply facility for own of this town to be beneficiary effect.	
O12	O12 Boru Jawi		
1.	Town status & population	Town Administration / 4,446 persons	
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride	
3.	Water coverage(20lpcd)	37% (water consumption)	
4.	Accessibility	Paved + Base-course + Sub-grade, 20 km from Asela	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	The existing water source (spring) is not staible by seasonal water product. It is not enough to supply.	
O20	O20 Abosa		
1.	Town status & population	Town Administration / 3,578 persons	
2.	Water potential (quantity)	Low / Unfeasible (Fluoride)	

データ 7.1 82小都市の概要 (26/33)

	& Water quality				
3.	Water coverage(20lpcd)	31% (water consumption)			
4.	Accessibility	All paved, 10 km from Zway			
5.	Existing rights& Disputes	Unidentified of both.			
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult.			
7.	Others particulars	In accordance with the result of water quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop good water quality around this area.			
O22	Adami Tulu				
1.	Town status & population	Municipal / 8,166 persons			
2.	Water potential (quantity) & Water quality	Low / Unfeasible (Fluoride)			
3.	Water coverage(20lpcd)	258% (water consumption)			
4.	Accessibility	All paved, 8 km from Zway			
5.	Existing rights& Disputes	Unidentified of both.			
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult.			
7.	Others particulars	New implementation will be done by other donors.			
O28	Jido				
1.	Town status & population	Town Administrations / 2,659 persons			
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride			
3.	Water coverage(20lpcd)	148% (water consumption)			
4.	Accessibility	Paved + Base-course + Sub-grade, 46 km from Zway			
5.	Existing rights& Disputes	Unidentified of both.			
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult.			
7.	Others particulars				

データ 7.1 82小都市の概要 (27/33)

O29 Katar Genet				
1.	Town status & population	Town Administrations / 3,953 persons		
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride		
3.	Water coverage(20lpcd)	0% (water consumption)		
4.	Accessibility	Paved + Base-course + Sub-grade, 33 km from Asela		
5.	Existing rights& Disputes	Unidentified of both.		
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.		
7.	Others particulars	The residentof this town, where is executed the Japanese irrigation project around this town, desire the waer supply project by Japanese fund		
O30	Lemo Sirba			
1.	Town status & population	Town Administrations / 5,590 persons		
2.	Water potential (quantity) & Water quality	Feasible / Exist area of Fluoride		
3.	Water coverage(20lpcd)	32% (water consumption)		
4.	Accessibility	Paved + Base-course + Sub-grade, 45 km from Asela		
5.	Existing rights& Disputes	Unidentified of both.		
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hills, construction works is required some ingenuities arround water sources.		
7.	Others particulars	The existing water supply facility was constructed by NGO on 1998, which is decrepit at the moment. The existing water source (spring) is not staible by seasonal water product. It is not enough to supply.		
O31	Milami			
1.	Town status & population	Municipal / 4,510 persons		
2.	Water potential (quantity) & Water quality	Low / Permissible		
3.	Water coverage(20lpcd)	29% (water consumption)		
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 284 km from Dila		

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5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	It is difficult for operation & maintenance due to long distance from local plincipal cities.
O32	2 Garaba	
1.	Town status & population	Municipal / 7,500 persons
2.	Water potential (quantity) & Water quality	Low / Permissible
3.	Water coverage(20lpcd)	148% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 89 km from Dila
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the gentle ridge, however, construction work is not difficult.
7.	Others particulars	
O33	B El Woyya	•
1.	Town status & population	Town Administrations / 4,090 persons
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.
3.	Water coverage(20lpcd)	7% (water consumption)
4.	Accessibility	Paved + Sub-grade + Dry-season only, 224 km from Dila long distance
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	Out of the study area.
O34	4 Bura	
1.	Town status & population	Town Administrations / 5,112 persons
2.	Water potential (quantity)	Feasible / Permissible

データ 7.1 82小都市の概要 (29/33)

implementation for new water supply facilities which is not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 7. Others particulars This small town is a priority of tranquility for public safety. O35 Awash Mercasa 1. Town status & population Municipal \(\) 10,200 persons 2. Water potential (quantity) Water quality 3. Water coverage(20lpcd) 57% 4. Accessibility All paved, 17 km from Adama 5. Existing rights & Disputes Unidentified of both. Technical specifications implementation for new water supply facilities Out of the study area. O36 Walanciti 1. Town status & population Municipal \(\) 11,260 persons Out of the study area. O36 Water quality Water potential (quantity) Water quality Water quality Unidentified due to out of the study area. O37 Water potential (quantity) Water quality Water coverage(20lpcd) All-paved, 26 km from Adama Technical specifications implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Others particulars Out of the study area. O36 Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama Technical specifications implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the general treatment facility to remove Fluoride. The small town is on the facility to remove Fluoride. The small town is on the facility to remove Fluoride. The small town is on the facility to remove Fluoride. The small town is on the facility to remove Fluoride.		& Water quality			
5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars 7. Others particulars 7. Oward potential (quantity) water overage(20lpcd) 7. Existing rights& Disputes 8. Existing rights& Disputes 8. Existing rights& Disputes 9. Others particulars 1. Town status & population 1. Toehnical specifications& implementation for new water supply facilities 9. Water coverage(20lpcd) 1. Existing rights& Disputes 1. Town status & Disputes 2. Water coverage(20lpcd) 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 9. Out of the study area. 9. Others particulars 9. Out of the study area. 9. Water potential (quantity) 9. Water overage(20lpcd) 9. Water overage(20lpcd) 9. Water overage(20lpcd) 9. Sales (water consumption) 9. Water coverage(20lpcd) 9. Sales (water consumption) 9. Caccessibility 9. Unidentified due to out of the study area. 9. Water overage(20lpcd) 9. Accessibility 9. Unidentified due to out of the study area. 9. Water overage(20lpcd) 9. Accessibility 9. Unidentified of both. 9. Existing rights& Disputes 1. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	3.	Water coverage(20lpcd)	6%		
6. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 7. Others particulars This small town is a priority of tranquility for public safety. This small town is a priority of tranquility for public safety. Water potential (quantity) Water quality All paved, 17 km from Adama Lindentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Others particulars Out of the study area. Water potential (quantity) Water potential (quantity) Water quality Water quality Water coverage(20lpcd) Accessibility Unidentified due to out of the study area. Water potential (quantity) Water quality Water quality Municipal_/11,260 persons Unidentified due to out of the study area. Water quality All-paved, 26 km from Adama Lindentified of both. The facility or remove Fluoride. The small storing is a standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	4.	Accessibility	Paved + Base-course + Sub-grade, 20 km from Awasa		
implementation for new water supply facilities which is not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 7. Others particulars This small town is a priority of tranquility for public safety. 3. Water potential (quantity) & Water quality Water quality All paved, 17 km from Adama Unidentified due to out of the study area. Listing rights Disputes Duidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is not difficult. Out of the study area. Water potential (quantity) & Water potential (quantity) & Water quality Municipal 11,260 persons Unidentified due to out of the study area. Water potential (quantity) & Water quality Water quality Municipal 11,260 persons Unidentified due to out of the study area. Lind paved, 26 km from Adama Unidentified due to out of the study area. Accessibility All-paved, 26 km from Adama Lind paved, 26 km from Adama The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	5.	Existing rights& Disputes	This small town has been sporadic conflicts with residents.		
1. Town status & population Municipal / 10,200 persons 2. Water potential (quantity) & Unidentified due to out of the study area. 3. Water coverage(20lpcd) 57% 4. Accessibility All paved, 17 km from Adama 5. Existing rights & Disputes Unidentified of both. 6. Technical specifications implementation for new water supply facilities Unidentified of both. 7. Others particulars Out of the study area. O36 Walanciti 1. Town status & population Municipal / 11,260 persons 2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights & Disputes Unidentified of both. 6. Technical specifications In the facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Dividentified due to out of the study area. Water potential (quantity) & Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights & Disputes Unidentified of both. 6. Technical specifications In the facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	6.	implementation for new water	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.		
1. Town status & population Municipal / 10,200 persons 2. Water potential (quantity) & Unidentified due to out of the study area. 3. Water coverage(20lpcd) 57% 4. Accessibility All paved, 17 km from Adama 5. Existing rights & Disputes Unidentified of both. 6. Technical specifications implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. 7. Others particulars Out of the study area. O36 Walanciti 1. Town status & population Municipal / 11,260 persons 2. Water potential (quantity) & Unidentified due to out of the study area. 3. Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights Disputes Unidentified of both. 6. Technical specifications implementation for new water supply facilities The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	7.	Others particulars	This small town is a priority of tranquility for public safety.		
2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 57% 4. Accessibility All paved, 17 km from Adama 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities Others particulars Others particulars Out of the study area. Oxon Water quality 1. Town status & population Water quality Water quality Unidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Out of the study area. Oxon Walanciti 1. Town status & population Municipal 11,260 persons 2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	O35	5 Awash Mercasa			
& Water quality 3. Water coverage(20lpcd) 57% 4. Accessibility All paved, 17 km from Adama 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities Out of the study area. 7. Others particulars Out of the study area. O36 Walanciti 1. Town status & population Municipal / 11,260 persons 2. Water potential (quantity) & Unidentified due to out of the study area. 3. Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities Piper of the study area be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	1.	Town status & population	Municipal / 10,200 persons		
4. Accessibility All paved, 17 km from Adama 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities Unidentified of both. 7. Others particulars Out of the study area. Out of the study area. Out of the study area. Unidentified due to out of the study area. Unidentified due to out of the study area. Unidentified due to out of the study area. 3. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	2.		Unidentified due to out of the study area.		
5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. 7. Others particulars Out of the study area. Out of the study area. Out of the study area. Unidentified due to out of the study area. Unidentified due to out of the study area. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	3.	Water coverage(20lpcd)	57%		
6. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. 7. Others particulars Out of the study area. Out of the study area. Out of the study area. Unidentified due to out of the study area. Water potential (quantity) & Water quality Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	4.	Accessibility	All paved, 17 km from Adama		
implementation for new water supply facilities however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Others particulars Out of the study area. Unidentified due to out of the study area. Unidentified due to out of the study area. Accessibility All-paved, 26 km from Adama Listing rights Disputes Unidentified of both. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	5.	Existing rights& Disputes	Unidentified of both.		
O36 Walanciti 1. Town status & population	6.	implementation for new water	however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the		
1. Town status & population Municipal / 11,260 persons 2. Water potential (quantity) & Water quality 3. Water coverage(20lpcd) 338% (water consumption) 4. Accessibility All-paved, 26 km from Adama 5. Existing rights Disputes Unidentified of both. 6. Technical specifications implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	7.	Others particulars	Out of the study area.		
 Water potential (quantity) & Water quality Water coverage(20lpcd) Accessibility All-paved, 26 km from Adama Existing rights& Disputes Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 	036	6 Walanciti			
 & Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 6. The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 	1.	Town status & population	Municipal / 11,260 persons		
 Accessibility All-paved, 26 km from Adama Existing rights& Disputes Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 	2.		Unidentified due to out of the study area.		
5. Existing rights& Disputes Unidentified of both. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	3.	Water coverage(20lpcd)	338% (water consumption)		
6. Technical specifications& The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	4.	Accessibility	All-paved, 26 km from Adama		
implementation for new water supply facilities however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	5.	Existing rights& Disputes	Unidentified of both.		
7. Others particulars Out of the study area.	6.	implementation for new water	The facility can be designed in an Ethiopian standard, however, it may be required high technology water treatment facility to remove Fluoride. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.		
	7.	Others particulars	Out of the study area.		

データ 7.1 82小都市の概要 (30/33)

O37	7 Doni		
1.	Town status & population	Town Administrations / 4,164 persons	
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.	
3.	Water coverage(20lpcd)	0% (water consumption)	
4.	Accessibility	Paved + Sub-grade, 42 km from Adama	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.	
7.	Others particulars	Out of the study area.	
O38	8 Befa		
1.	Town status & population	Town Administrations / 7,040 persons	
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.	
3.	Water coverage(20lpcd)	183% (water consumption)	
4.	Accessibility	Paved + Sub-grade, 32 km from Adama	
5.	Existing rights& Disputes	Unidentified of both.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.	
7.	Others particulars	Out of the study area.	
O39	9 Intaye		
1.	Town status & population	Municipal / 8,500 persons	
2.	Water potential (quantity) & Water quality	Low / Unfeasible (Fluoride)	
3.	Water coverage(20lpcd)	N.D.	
4.	Accessibility	Paved + Base-course + Sub-grade, 26 km from Awasa	
5.	Existing rights& Disputes	This small town has been sporadic conflicts with residents.	
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the	

データ 7.1 82小都市の概要 (31/33)

		generally gentle hills, construction work is not difficult.
7.	Others particulars	This small town is a priority of tranquility for public safety.
O40) Kabate	·
1.	Town status & population	Town Administrations / 4,146 persons
2.	Water potential (quantity) & Water quality	Feasible / Permissible
3.	Water coverage(20lpcd)	7%
4.	Accessibility	Paved + Base-course + Sub-grade, 35 km from Sheshemane
5.	Existing rights& Disputes	Unidentified of b oth.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, which is not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	One of two Hand-pump is out of order due to low down of ground water level. Capacities of the existing water supply facilities are insufficient for the population of the town. Hence, Beneficiary of new water supply facility is high.
O41	1 Awasho Dhanku	
1.	Town status & population	Kebele Association / 7,040 persons
2.	Water potential (quantity) & Water quality	Feasible / Permissible
3.	Water coverage(20lpcd)	0% (water consumption)
4.	Accessibility	All paved,6 km from Sheshemane
5.	Existing rights& Disputes	Unidentified of both.
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.
7.	Others particulars	One well has construted by NGO on 2010. Other water supply facility is pending to design.
O42	2 Hursa	
1.	Town status & population	Kebele Association / 5,700 persons
2.	Water potential (quantity) & Water quality	Feasible / Permissible
3.	Water coverage(20lpcd)	3.5% (water consumption)

データ 7.1 82小都市の概要 (32/33)

4.	Accessibility	All paved, 13 km from Sheshemane				
5.	Existing rights& Disputes	Unidentified of both.				
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.				
7.	Others particulars	One spring water source is not able to use due to dry up. Other water source (one Hand-pump) is not enough to cover with whole of residents. Therefore, new water supply facility has high beneficial effect.				
O43	B Hidi Lola					
1.	Town status & population	Municipal / 6,550 persons				
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.				
3.	Water coverage(20lpcd)	23%				
4.	Accessibility	Paved + Base-course, 340 km from Dila, Long distance				
5.	Existing rights& Disputes	This small town was sporadic conflicts with residents.				
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. There are some risks of troubles, conflicts with neighborhoods for development of water sources. The small town is on the generally flat terrains, construction work is not difficult.				
7.	Others particulars	This small town is a priority of improvement of accessibility for operation & maintenance. It is long distance to access to the plicipal cities. Out of the study area.				
O44	4 Fincadaa					
1.	Town status & population	Municipal / 7,200 persons				
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.				
3.	Water coverage(20lpcd)	122%				
4.	Accessibility	Paved, 126 km from Dila, Long distance				
5.	Existing rights& Disputes	Unidentified of both.				
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction work is not difficult.				
7.	Others particulars	Out of the study area.				
	1	1				

データ 7.1 82小都市の概要 (33/33)

O45	O45 Adulala			
1.	Town status & population	Town Administrations/3,601 persons		
2.	Water potential (quantity) & Water quality	Unidentified due to out of the study area.		
3.	Water coverage(20lpcd)	0% (water consumption)		
4.	Accessibility	All paved, 9 km from Adama		
5.	Existing rights& Disputes	Unidentified of both.		
6.	Technical specifications& implementation for new water supply facilities	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.		
7.	Others particulars	Out of the study area. This town has not the existing water supply facility. The residents buy water from water saler who comes from adjacent towns.		

データ 7.2 オロミア州の小都市プロファイル

O-01 Iteya

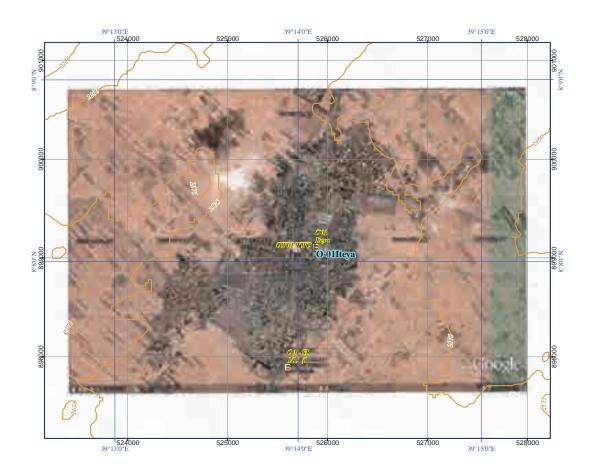
	Oromia Region					1 /:	
	Name of small town	:		Iteya		0- 0	
	Name of Woreda	:		Hitosa		OW- 0	
	Name of Zone	:		Arsi		OZ- 0)1
	I=	Profile items				Profile	
01	Population		h O	WIDD	7.042	7.106	14 220
	Town Woreda	male / female / total male / female / total	-	WRB ensus 2007	7,043 62,445	7,196 61,734	14,239 124,179
	percentage of Town in Wo		by C	clisus 2007	02,443	01,754	11.5%
02	Town Coordination	UTM (Adindan)	Easti	ing / Northig / Alt.	525789	898989	2,159
03	Town Status	<u> </u>		<u> </u>	Municipally		
04	Water Source						
	04-01 Water source			e, No.	Spring (17km	from Town)	****
	04-02 Well spec.			asing Dia., S.W.L, Yield			
	04-03 Method of water draw 04-04 Pump Spec.			p, Gravity e, Yield	Gravity nil.		
	04-05 Power source for motorize	d pump		e, Kva	nil.		
	04-06 Durartion of water draw (C			hours, time	24hrs.		
	04-07 Water quality	- <u>k</u>		Fluorideetc.	good		
	04-08 Other technical specimen						
05	Existing Water Supply Facilities				1005		
	05-01 Established year			gorian calendar)	1987	***************************************	
	05-02 Financial of implementation (05-03 Name of implementation (1997))		Done	or's name	Water Aid Hitosa Iteya wa	ater project	
	05-04 Intake Type	rioject name)			Spring	ater project	
	05-05 Intake No.				lno.		
	05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe	material, length	Not grasped		
	05-07 Power to convey			sure, Gravity	Gravity		
	05-08 Water treatment		Disir	nfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/c		nil.		
	05-10 Water reserver type		Туре	<u> </u>	GR		
	05-11 Water reserver No.		no.		18nos. 100m3*1no., 50	Day 2 * 1 25	m2*17maa
	05-12 Water reserver Capacity 05-13 Transmission Type (Boost	er numn Stn - Pacarvoi	m3	material, length	nil.	JIII5* 1110., 23	1115*1/1108.
	05-14 Power to transmit	er pump sur. ~ Reservor		sure, Gravity	nil.		
	05-15 Distribution Type			material, length	Not grasped		
	05-16 Power to distribute		Press	sure, Gravity	Gravity		
	05-17 Structure Type of water po		R	C, Masonry, Pipeetc			
	05-18 Number of water point (Pu			no.	15		
	05-19 Number of faucet at a water 05-20 Average of daily water cor			no.	6 Not		
	05-20 Average of daily water cor 05-21 Number of House Connect		nt (PF)	m3/day	Not grasped 2,000		
	05-22 Average of daily water consu		on(HC)	m3/day	Not grasped		
	05-23 Number of Business Coned	*	()	ms/day	Not grasped		
	05-24 Type of Business Connecti		, School, Go	v. office, Hospitaletc			
	05-25 Average of daily water consum	nption of Business Connecti	on (BC)	m3/day	Not grasped		
	05-26 Other technical specimen						
J6	Operation and Maintenace				Town wet-	nnly com:	
	06-01 Organization's name 06-02 Type of organization		Regional	I, Zone, Enterpriceetc	Town water su	ppry service	
	06-03 Number of thechnical staff	2	Regiona	i, Zone, Enterpriceetc	Litterprise		
	06-04 Principal works of technical						
	06-05 Number of the financial sta						
	06-06 Principal works of financia	al staff					
	06-07 Categories of water tariff				. 4 tariff categor	ized	
	06-08 Water tariff rate			0.151: 202			
	Water point (Public faucet)	Water point (Public faucet) Birr/L, 20L House connection Birr/m3		0.15birr/20L	m ²		
	Business connection Birr/m3 Business connection Birr/m3			3.25~4.00birr/i	113		
	06-09 Average monthly income by water tariff Birr/month			GILLO			
	06-10 Procurement of spare parts						
	06-11 Principal spare parts	u		Fuel filter, Pipesetc			
	06-12 Method in case of serious i	repair by Re		, Private companyetc			
	06-13 Principal serious repair wit						
	06-14 Fund for above 6-09, 6-10		by Organizati	on, Gov., Donorsetc			
	06-15 Other technical specimen			~~~			

データ 7.2 オロミア州の小都市プロファイル

O-01 Iteya

07	Problem of actual town water supply		
	07-01 Technical Water source Quantity, Qualityetc.		ļ
	Water supply facility Decrepit, leakage, design failureetc.		
	07-02 Finalcial		
	Management		
	Rate of water tarrif collection		ļ
	Personnel expenses Shourtage of budget to execute operation & maintenace		
	07-03 Other incidential, Special specimen		-
	Increase in population to consume water coming from other towns, villagesetc		
	Change in industry increase factory, Tradingetc.		
	Human conflict Ethnic, Administrativeetc 07-04 Other specimen		-
	07-04 Other specimen		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
	Town is on the flat area.		
09	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
10	Current Water Coverage (%)	%	
10	Current water Coverage (70)	70	
	Current Water Coverage (%) (by data of water source product))	437%	
	((14.4L)*3600min*24hrs)=1244160L 1244160L/20L=62208 62208/14239=437%		
11	Water Potential (A/B/C/D/E)	В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not Approached	A/A	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m		
	Access road is Asphalt road 23km from Asela. * Refer to Chapter 5 "Table 5-7: Categories of accessibility		
13	Manpower Capability of Water Supply Management by Water Office point)	23	
14	Dgree of urgency (A/B/C/D/E)		
	Refer to Chapter 5 & 7		
15	New Water Supply Plan		
10		on small town is on the	
	The facility can be designed in an Ethiopian standard, which is not required more advanced technology. The generally flat terrains, however, construction works is required some ingenuities arround water sources.	ie sman town is on the	
16	Other Donors, NGO's		
10	Water Aid		
17	Main Ethnic Group Oromo		
18	Health conditions		
	<u>}</u>	ter, Private clinic, Drug stor	e
		5	
	-3 Main patients of water born diseases persons / year Typhoid	1,000 500	
19	Main economic activities Dysentery Farming, V	Vaving, Trade	
	Ö	3,	
20	Particular comments:	11 1: 111 0	
	Woreda water borad office in Town. (Boarding towns are Adama, Hitosa, Lobe Hitosa and Dosotsire) wh Town population is more than 14,000 persons in accordance with list of the candidate small towns. The ex-		
	The enterprise of water supply has established the water board with adjacent towns and they are under open contents.		
21	Remarks :		
Men	no (Town sketchetc.) :		
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	-		

O-01 Iteya



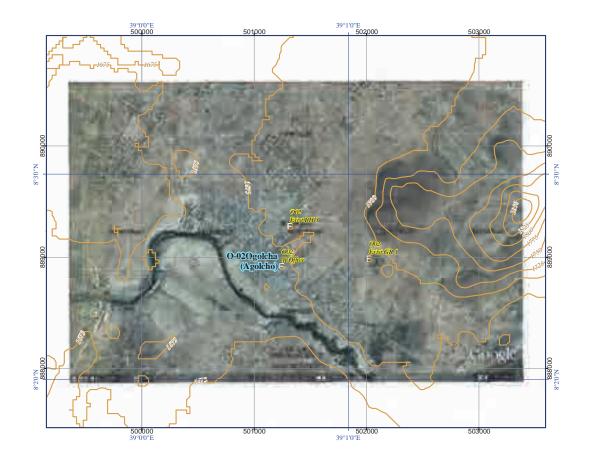
O-02 Ogolcha

	Oromia Region		2 /30
	Name of small town :	Ogolcha	O- 02
	Name of Woreda :	Ziway Dugd	a OW- 02
	Name of Zone :	Arsi	OZ- 01
	Profile items	-	Profile
1	Population		
	Town male / female / total	by OWRB	2,436 2,323 4,759
	Woreda male / female / total	by Census 2007	60,431 60,556 120,987
	percentage of Town in Woreda		3.9%
_	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	501151 888795 1,707
-	Town Status		Town Administration
	Water Source	m	W. 1141 GI II 1140 M
	04-01 Water source	Type, No.	Well*1no., Shallow well*2 with HP GL-90m, ??", GL-??m, ??L/sec.
	04-02 Well spec. Dept 04-03 Method of water draw	Pump, Gravity	Pump
	04-03 Niethod of water draw		Morotized pump / Hand pump
	04-05 Power source for motorized pump	Type, Kva	Commercial Elec. , standby generator
	04-06 Durartion of water draw (Operation hours)		Not grasped
	04-07 Water quality		EC1,410 other item are good
	04-08 Other technical specimen		
	1	***************************************	
	Existing Water Supply Facilities		
	05-01 Established year	(Gregorian calendar)	1998
	05-02 Financial of implementation	Donor's name	OSHO
	05-03 Name of implementation (Project name)		Ogolcha water project
	05-04 Intake Type		Well
	05-05 Intake No.	D'	3 (1no. deep well, 2nos Shallow wells)
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP. 3", 800m
	05-07 Power to convey 05-08 Water treatment		Pressure nil.
	05-08 Water treatment capacity		nil.
	05-10 Water treatment capacity	m3/day Type	GR
	05-10 Water reserver type 05-11 Water reserver No.	no.	GR*1no.
	05-12 Water reserver Capacity	m3	GR50m3*1no.
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	-	nil.
	05-14 Power to transmit		nil.
	05-15 Distribution Type	Pipe material, length	See below memo
	05-16 Power to distribute	Pressure, Gravity	Gravity
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	Mansonry
	05-18 Number of water point (Public Faucet, PF)	no.	7
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6
- 1	05-20 Average of daily water consumption at a water point (PF)	m3/day	2.3m3/day
	05-21 Number of House Connection (HC)		301
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.32m3/day
	05-23 Number of Business Conection (BC)	1 Cff: II '- 1	22
	05-24 Type of Business Connection (BC) Factory, School 05-25 Average of daily water consumption of Business Connection (BC)		Not grasped
	05-25 Average of daily water consumption of Business Connection (BC)	m3/day	0.48m3/day
	00-20 Outer recuirear specificii		
5	Operation and Maintenace		
	06-01 Organization's name		Town warter supply servise
		gional, Zone, Enterpriceetc.	Community based organization
- 1	06-03 Number of thechnical staff	×	1
	06-04 Principal works of technical staff		Pump operation
	06-05 Number of the financial staff		7
	06-06 Principal works of financial staff		Water meter read, Bill, Water sale
		oint, House Connectionetc.	W. Point, House connection
	06-08 Water tariff rate		
	Water point (Public faucet)		0.2birr/20L
	House connection	Birr/m3	3.5birr/m3
	Business connection	Birr/m3	Not grasped
	06-09 Average monthly income by water tariff	Birr/month	7,100birr/month Asela, Meki, Adama
		,	,
		I filter, Fuel filter, Pipesetc office, Private companyetc	Water meter, piperittings Woreda
		onice, riivate companyetc	
	06-13 Principal serious repair with 5-10 years		
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by Orga	nization, Gov Donors etc	Pumpmotor burned Region
		unization, Gov., Donorsetc.	

O-02 Ogolcha

	Problem of actual town water supply			
07	07-01 Technical			
	Water source	Quantity, Qualityetc.	Water shorgt	age
	Water supply facility	Decrepit, leakage, design failureetc	Pipe line netv	work, Skilled manpower
	07-02 Finalcial			
	Management		Not skilled pe	ersonnel
	Rate of water tarrif collection		nil.	
	Personnel expenses		nil.	
	Shourtage of budget to execute operation	& maintenace	Shortage bud	get for O&M
	07-03 Other incidential, Special specimen			
	Increase in population to consume water	coming from other towns, villagesetc		ı villagers
	Change in industry	increase factory, Tradingetc		
	Human conflict	Ethnic, Administrativeetc	nil.	
	07-04 Other specimen			
_				
8		ountaion, bottom of valley, Top of ridgeetc.)	
	Town is on the flat area.			
9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
	*			
0	Current Water Coverage (%) (by water consum			129%
	(2.3m3*7PF+0.32m3*301HC+0.48m3*22BC)=1	23m3/day 123m3/20Lpcd.= 6,150persons 6,	150persons / 4,	,759 population = 129%
	Current Water Coverage (%) (by data of water	source product))		%
1	Water Potential (A/B/C/D/E)			С
_				D / D
2		Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B / B
		dth > 6m /B = >3~6m / C = 1~3m / D = <1m		
_	Access road is Asphalt & Base course 45km fro			
3	Manpower Capability of Water Supply Manage	ment by Water Office point)		9
_	D (1 / D / C / D / D)			
4	Dgree of urgency (A/B/C/D/E)			
	Refer to Chapter 5 & 7			
-	N W C I DI			
J	New Water Supply Plan			
	The facility can be designed in an Ethiopian star	ndard, whichis not required more advanced tec	chnology. The	small town is on the
	The facility can be designed in an Ethiopian star generally flat terrains, construction work is not		chnology. The	small town is on the
-	generally flat terrains, construction work is not		chnology. The	small town is on the
6	generally flat terrains, construction work is not of Other Donors, NGO's		chnology. The	small town is on the
6	generally flat terrains, construction work is not		chnology. The	small town is on the
	generally flat terrains, construction work is not of Other Donors, NGO's OSHO			
	generally flat terrains, construction work is not of Other Donors, NGO's		Chnology. The	
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group			
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions		Gurage, Oror	no
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town	difficult.	Gurage, Oror	no r, Private clinic, Drug sto
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	difficult.	Gurage, Oron Health Cente	no r, Private clinic, Drug sto
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town	difficult.	Gurage, Oron Health Cente 50 Typhoid	no r, Private clinic, Drug sto 1,000
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria	no r, Private clinic, Drug stor 1,000 3,000
7	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	difficult.	Gurage, Oron Health Cente 50 Typhoid	r, Private clinic, Drug stor 1,000 3,000 150
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8 0	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	difficult.	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others	no r, Private clinic, Drug stor 1,000 3,000 150 150
7 8 0	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year Mr. Negash Gemechu Water	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
77 33 37 37 37 37 37 37 37 37 37 37 37 3	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 3 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year Mr. Negash Gemechu Water	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks:	km persons / year Mr. Negash Gemechu Water	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 8 9 0 1 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks:	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks:	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
7 8 9 0 1	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
77 33 37 37 37 37 37 37 37 37 37 37 37 3	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving
	generally flat terrains, construction work is not of Other Donors, NGO's OSHO Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=31.	km persons / year Mr. Negash Gemechu Water of Mr. Mohammed Sado Water of M	Gurage, Oron Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	no r, Private clinic, Drug stor 1,000 3,000 150 150 de, Waving

O-02 Ogolcha



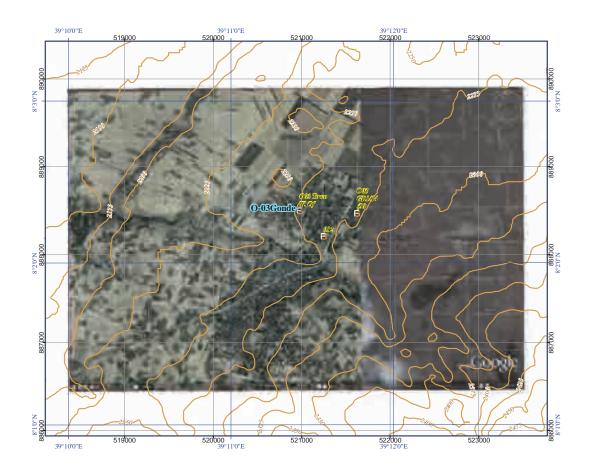
O-03 Gonde

	Oromia Region		3 /30	
	Name of small town :	Gonde	O- 03	
	Name of Woreda :	Tiyo	OW- 03	
	Name of Zone :	Arsi	OZ- 01	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by OWRB	2,021 2,329 4,350	
	Woreda male / female / total	by Census 2007	43,443 43,284 86,727	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	5.0% 520879 888380 2,258	
	Town Status	Easting / Norting / Ait.	Town administration	
	Water Source		10 WI WHITIMOTHERON	
	04-01 Water source	Type, No.	Spring * 4 nos. (fm 42km from Town)	
		oth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	Gravity	
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	nil.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	111. 24hrs.	
	04-07 Water quality	Iron, Fluorideetc.	good	·
	04-08 Other technical specimen	11011, 11101111111111111111111111111111		
	•			
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1998 (Phase-1) / 1999 (Phase-2)	
	05-02 Financial of implementation	Donor's name	Water Aid	
	05-03 Name of implementation (Project name) 05-04 Intake Type		Gonde Iteya water supply project Spring	
	05-05 Intake No.		4nos.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	DCIP, 8", 42km	
	05-07 Power to convey	Pressure, Gravity	Gravity	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Type	GR	
	05-11 Water reserver No.	no.	GR*15nos.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	m3 Pipe material, length	GR50m3*2nos., 25m3*13nos. nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	94km (Incl. rural area)	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	Mansonry	
	05-18 Number of water point (Public Faucet, PF)	no.	5 (Gonde+Iteya=94)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	5	
	05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC)) m3/day	2.23m3/day 201 (Gonde+Iteya=724)	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC)	m3/day	201 (Gonde+neya=724) 1.66m3/day	
	05-23 Number of Business Conection (BC)	ms/day	6	
		ol, Gov. office, Hospitaletc.	Gov.*4, Factory*1, Church*1	
	05-25 Average of daily water consumption of Business Connection (BC)		0.68m3/day (3.3~0.1m3/day)	
	05-26 Other technical specimen			
0.1				
06	Operation and Maintenace 06-01 Organization's name		Town warter cumby entermine	
		egional, Zone, Enterpriceetc.	Town warter supply enterprise Enterprise	
	06-03 Number of thechnical staff	zgronar, zone, Emerpriceetc.	4	
	06-04 Principal works of technical staff		Maintenance, Plumbing	
	06-05 Number of the financial staff		15	
	06-06 Principal works of financial staff		Water meter read, Bill	
		Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate		21: / 2 / G	
	Water point (Public faucet)	Birr/L, 20L	3birr/m3 (Contract system)	!
	House connection Business connection	Birr/m3 Birr/m3	See below memo ditto	
	06-09 Average monthly income by water tariff	Birr/month	63.000birr/month	
		n, Zonal Cap. Reg. Capetc.	Addis Ababa	
		il filter, Fuel filter, Pipesetc	Water meter, Pipes&fittings, Vehicle pa	
	06-12 Method in case of serious repair by Regional	office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Broken pipe anchor (Thrust block)	
		anization, Gov., Donorsetc.	Enterprise	
	06-15 Other technical specimen			
				1

O-03 Gonde

)7	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Shortage wa	ter	
	Water supply facility	Decrepit, leakage, design failureetc	Design fairu	re, expansion pipe lines	
	07-02 Finalcial				
	Management		Not specified		
	Rate of water tarrif collection		Not specified		
	Personnel expenses		Not specified		
	Shourtage of budget to execute operation &	k maintenace	Not specified	d	
	07-03 Other incidential, Special specimen			1.2	-
	Increase in population to consume water	coming from other towns, villagesetc		outation	
	Change in industry Human conflict	increase factory, Tradingetc Ethnic, Administrativeetc			
	07-04 Other specimen	Etimic, Administrativeetc	11111.		
	07-04 Other specimen				
18	Geographical condition (Slope on mou	intaion, bottom of valley, Top of ridgeetc.)		+
,,,	Town is on the foot of mountain & flat area.	mand, contour of valley, 1 op of flage meter.	<u>/</u>		
)9	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
10	G (W) 4			4010/	٠.
10	Current Water Coverage (%) (by water consump (2.23m3*5PF+1.66m3*201HC+0.68*6BC)=348		17.445	401%	!
	Current Water Coverage (%) (by data of water so		17,445per	% sons / 4,350 population =	4
11	Water Potential (A / B / C / D / E)			В	
12		Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	A / A	4
		$th > 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$			
12	Access road is Asphalt 12km from Asela. * Refer		ssibility	1 22	+
13	Manpower Capability of Water Supply Manager	ent by water Office point)		23	
	Dgree of urgency (A / B / C / D / E)				+
4				i	
14					
14	Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7 New Water Supply Plan				
	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand	-		e small town is on the	
	Refer to Chapter 5 & 7 New Water Supply Plan	-		e small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand	-		e small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stander generally flat terrains, however, construction working the standard standa	-		e small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid	-	r sources.		
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stander generally flat terrains, however, construction work of the Donors, NGO's	-			
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group	-	r sources.		
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group Health conditions	-	Amhara, Oro	omo	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town	ks is required some ingenuities arround wate	Amhara, Oro		ng stor
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ks is required some ingenuities arround wate	Amhara, Oro	omo clinic, Private clinic, Dru	ng stor
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town	ks is required some ingenuities arround wate	Amhara, Oro Government 11 Typhoid	omo clinic, Private clinic, Dru 1,000	ig stor
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ks is required some ingenuities arround wate	Amhara, Oro Government 11 Typhoid Dysentery	clinic, Private clinic, Dru 1,000 250	ng stor
15 16 17	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	ks is required some ingenuities arround wate	Amhara, Oro Government 11 Typhoid Dysentery others	clinic, Private clinic, Dru 1,000 250 850	ng stor
16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ks is required some ingenuities arround wate	Amhara, Oro Government 11 Typhoid Dysentery	clinic, Private clinic, Dru 1,000 250 850	and the state of t
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	ks is required some ingenuities arround wate	Amhara, Oro Government 11 Typhoid Dysentery others	clinic, Private clinic, Dru 1,000 250 850	gg stor
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction wor Other Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	km persons / year	Amhara, Oro Government 11 Typhoid Dysentery others	clinic, Private clinic, Dru 1,000 250 850	gg stor
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dru 1,000 250 850	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC	km persons / year	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dru 1,000 250 850	1
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC	km persons / year	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dru 1,000 250 850	!
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Borad has A	km persons / year , PE) ter Bureau on 2002 for efficiency manageme	Amhara, Oro Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dru 1,000 250 850 ing, Waving	!
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Wa Remarks: The existing watersource is spring. The enterprise under operating relatively good management.	km persons / year , PE) ter Bureau on 2002 for efficiency manageme	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	!
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Borad has Award from Oromia Water Borad for the existing watersource is spring. The enterprisunder operating relatively good management. Mr. Abe Wabe (Chairman of Water Board	km persons / year , PE) ter Bureau on 2002 for efficiency manageme	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	!
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Wa Remarks: The existing watersource is spring. The enterprise under operating relatively good management.	km persons / year , PE) ter Bureau on 2002 for efficiency manageme	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	!
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service of the existing watersource is spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of (Town sketchetc.):	km persons / year , PE) ter Bureau on 2002 for efficiency manageme	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	!
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service of the existing watersource is spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of (Town sketchetc.):	km persons / year PE) ter Bureau on 2002 for efficiency manageme e of water supply has established the water be 0 0920-029-948 Mr. Wodo Khadir (Town wa	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm nt.	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	!
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service of the existing watersource is spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec.	km persons / year km persons / year PE) ter Bureau on 2002 for efficiency manageme e of water supply has established the water be 0 0920-029-948 Mr. Wodo Khadir (Town wa	Government 11 Typhoid Dysentery others Trade, Farm nt. pard with adja tter head) 091 ??L/sec.	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	!
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service of the existing watersource is spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of (Town sketchetc.):	km persons / year PE) ter Bureau on 2002 for efficiency manageme e of water supply has established the water be 0 0920-029-948 Mr. Wodo Khadir (Town wa	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm nt.	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	1
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Remarks: The existing watersource is spring. The enterprisunder operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec.	km persons / year PE) ter Bureau on 2002 for efficiency manageme e of water supply has established the water be 0 0920-029-948 Mr. Wodo Khadir (Town wa Spring No.3 Spring No.4	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm nt. pard with adja ter head) 091 ??!L/sec. ??!L/sec.	clinic, Private clinic, Dri 1,000 250 850 ing, Waving	1
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stangenerally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Borad has Award from Oromia Water Singular (Chairman of Water Board of Town sketchetc.): Mr. Abe Wabe (Chairman of Water Board of Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec.	km persons / year PE) ter Bureau on 2002 for efficiency manageme e of water supply has established the water be 0 0920-029-948 Mr. Wodo Khadir (Town wa Spring No.3 Spring No.4 Water Meter Lease	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm nt. bard with adja ter head) 091 ??L/sec. ??L/sec.	clinic, Private clinic, Dri 1,000 250 850 ing, Waving acent towns and they are	!
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Borad has Award from Oromia Water String watersource is spring. The enterprisunder operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of (Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec. 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 = 3.25birr/m3	km persons / year km persons / year PE) ter Bureau on 2002 for efficiency manageme e of water supply has established the water be 0 0920-029-948 Mr. Wodo Khadir (Town wa Spring No.3 Spring No.4 Water Meter Lease ND-1/2"=5.0birr/month	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm nt. 27L/sec. 27L/sec. deposit 75.0birr/depv	clinic, Private clinic, Dri 1,000 250 850 ing, Waving acent towns and they are 2-0643-354	!
.5 .6 .7 .8 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service is spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of (Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec. 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 = 3.25birr/m3 5~10 m3 = 3.50birr/m3	km persons / year km persons / year	Amhara, Ord Government 11 Typhoid Dysentery others Trade, Farm nt. 22 21 22 22 22 22 22 25 25 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20	clinic, Private clinic, Dru 1,000 250 850 ing, Waving acent towns and they are 2-0643-354	!
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service in Spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec. 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 = 3.25birr/m3 5~10 m3 = 3.50birr/m3 10~20 m3 = 3.75birr/m3	km persons / year km persons / year persons	Government 11 Typhoid Dysentery others Trade, Farm nt. 2?L/sec. 2?L/sec. deposit 75.0birr/dep 100.0birr/dep 125.0birr/de	clinic, Private clinic, Dru 1,000 250 850 ing, Waving accent towns and they are 2-0643-354	1
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service is spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of (Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec. 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 = 3.25birr/m3 5~10 m3 = 3.50birr/m3	km persons / year km persons / year persons	Government 11 Typhoid Dysentery others Trade, Farm nt. 2?!L/sec. ??!L/sec. deposit 75.0birr/dep 100.0birr/dep 200.0birr/de	clinic, Private clinic, Dru 1,000 250 850 ing, Waving acent towns and they are 2-0643-354 osit posit posit posit	!
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service in Spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec. 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 = 3.25birr/m3 5~10 m3 = 3.50birr/m3 10~20 m3 = 3.75birr/m3	km persons / year km persons / year persons	Government 11 Typhoid Dysentery others Trade, Farm nt. 2?L/sec. 2?L/sec. deposit 75.0birr/dep 100.0birr/dep 125.0birr/de	clinic, Private clinic, Dru 1,000 250 850 ing, Waving acent towns and they are 2-0643-354 osit posit posit posit	!
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stand generally flat terrains, however, construction work of the Donors, NGO's Water Aid Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Pipe line network (Pipe material DIP, SGP, PVC Hitosa Water Borad has Award from Oromia Water Service in Spring. The enterprise under operating relatively good management. Mr. Abe Wabe (Chairman of Water Board of Town sketchetc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.2 9L/sec. 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 = 3.25birr/m3 5~10 m3 = 3.50birr/m3 10~20 m3 = 3.75birr/m3	km persons / year km persons / year persons	Government 11 Typhoid Dysentery others Trade, Farm nt. 2?!L/sec. ??!L/sec. deposit 75.0birr/dep 100.0birr/dep 200.0birr/de	clinic, Private clinic, Dru 1,000 250 850 ing, Waving acent towns and they are 2-0643-354 osit posit posit posit	

O-03 Gonde



O-05 Kidame Digelu

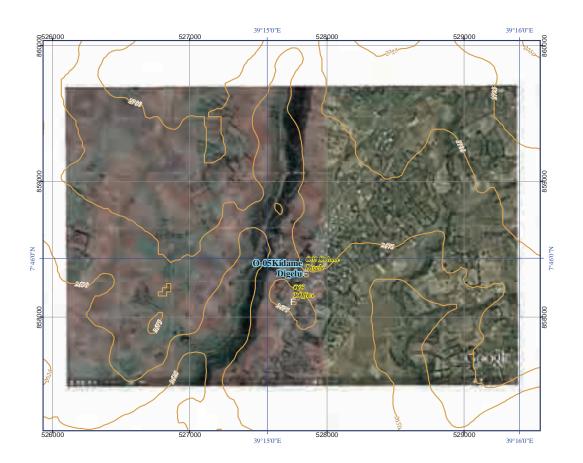
	Oromia Region		4 /30	1
	Name of small town :	Kidame Dige	lu O- 05	
	Name of Woreda :	Digaluna Tij	o OW- 04	
	Name of Zone :	Arsi	OZ- 01	
	Profile items		Profile	!
01	Population			
	Town male / female / total Woreda male / female / total	-	809 971 1,78 69,471 70,942 140,41	
	percentage of Town in Woreda	by Census 2007	69,471 70,942 140,41 1.3°	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	527753 858194 2,67	
_	Town Status	8	Town administration	
04	Water Source			
	04-01 Water source	Type, No.	Spring * 1no. (3km from Town)	
	04-02 Well spec. 04-03 Method of water draw	Depth., Casing Dia., S.W.L, Yield Pump, Gravity	Z.15L/sec. Gravity	
	04-04 Pump Spec.	Type, Yield	nil.	
	04-05 Power source for motorized pump	Type, Tield Type, Kva	nil.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	24hrs.	
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen			
0 -				\bot
05	Existing Water Supply Facilities 05-01 Established year	(Creaming11)	2007	
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar) Donor's name	World Vision	
	05-03 Name of implementation (Project name)	Donor's name	Kidame Digelu water project	
	05-04 Intake Type		Spring	
	05-05 Intake No.		lno.	*****
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 4", 3,000m	
	05-07 Power to convey	Pressure, Gravity	Gravity	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil. GR	
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	Ino.	
	05-12 Water reserver Capacity	m3	100m3	
	05-13 Transmission Type (Booster pump Stn. ~ Reserve		nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	See below memo	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)		Mansonry	
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet,	PF) no.	8 5FC*6PF, 2FC*2PF	-
	05-20 Average of daily water consumption at a water po		4.0m3/day	
	05-21 Number of House Connection (HC)	(1)	119	
	05-22 Average of daily water consumption of House Connec	ion(HC) m3/day	1.3m3/day	
	05-23 Number of Business Conection (BC)		11	
		y, School, Gov. office, Hospitaletc.		r
	05-25 Average of daily water consumption of Business Connec	tion (BC) m3/day	0.33m3/day	
	05-26 Other technical specimen			
06	Operation and Maintenace			+
- 5	06-01 Organization's name		Town water supply service	+
	06-02 Type of organization	Regional, Zone, Enterpriceetc.	Community based organization	
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff		Plumbing	
	06-05 Number of the financial staff		8 Water meter read, Bill, Water sale	
	06-06 Principal works of financial staff 06-07 Categories of water tariff	W Point House Connection ata	W. Point, House connnection	
	06-08 Water tariff rate	W.Point, House Connectionetc.	omit, 11ouse commection	
	Water point (Public faucet)	Birr/L, 20L	0.05birr/20L	
	House connection	Birr/m3	1.80birr/m3	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	1,000birr/month	
	06-10 Procurement of spare parts	at Town, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		
		egional office, Private companyetc	Woreda nil.	
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10	by Organization, Gov., Donorsetc.	Water committee	
	06-15 Other technical specimen	o, organization, Gov., Donorsetc.	acci committee	

O-05 Kidame Digelu

07	Problem of actual town water supply			T
	07-01 Technical			***************************************
	Water source Quantity, Qualityetc			
	Water supply facility Decrepit, leakage, design failureetc	Pipe networl	limitation	
	07-02 Finalcial			
	Management	nil.		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	nil.	1	
	Shourtage of budget to execute operation & maintenace	Shortage bud	lget for O&M	<u> </u>
	07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc	Coming from	a villa como etudante	-
	Increase in population to consume water coming from other towns, villagesetc Change in industry increase factory, Tradingetc	nil	i villagers, students	
	Human conflict Ethnic, Administrativeetc			-
	07-04 Other specimen			
	07-04 Other specifical			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		1
	Town is on gently slope on mountain.			
	Necessary Institution (Facility, Material)			
	Expansion Ground Reservoir			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%)	0.515	535%	!
	(4.0m3*8PF+1.3m3*119HC+0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.= 9,515person Current Water Coverage (%) (by data of water source product)) ((2.15L)*3600min*24hrs)=185760L 185760L/20L=9288persons 9288persons/1780populatic		s/1,780population=535% 522%	
11	Water Potential $(A/B/C/D/E)$	/11-4+J/0	С	+
11	water of officer (A / B / C / D / L)			
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	Approached	B / B	
	Access road is Sub Grade 15km from Sague. * Refer to Chapter 5 "Table 5-7: Categories of a	ccessibility"		
13	Manpower Capability of Water Supply Management by Water Office point)		12	
]
	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
				<u> </u>
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the hills,	,
	construction works is required some ingenuities arround water sources.			
16	Other Donors, NGO's			+
10	World Vision			
17	Main Ethnic Group	Amhara, Oro	omo	1

18	Health conditions			
	-1 Medical facilities in Town	Health Cente	er, Private clinic, Drug stor	re
	-2 Nearest other facilities from Town km	42		
	-3 Main patients of water born diseases persons / year	Typhoid	264	
4.0				—
19	Main economic activities	Trade, Farm	ing	
20	Particular comments:			+-
20	i arreniai comments .			-
				†
				†
21	Remarks:			
				1
	Mr. Girma Teshome Former Water committee member an	d town dewel	lor Mob. 0912258158	
Men	o (Town sketchetc.):			
				_
	05-15 Distribution Type (Spring No.1)			-
	PVC 4"=500m PVC 2*1/2"=2,000m			
	PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m			

O-05 Kidame Digelu



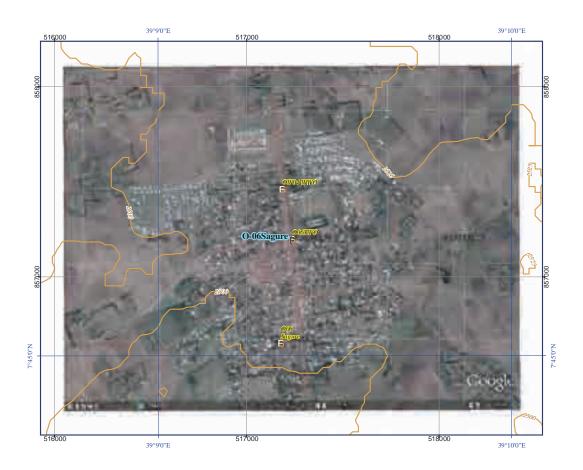
O-06 Sague

	Oromia Region		5 /30	
	Name of small town :	Sague	O- 06	1
	Name of Woreda :	Digaluna Tij	o OW- 04	
	Name of Zone :	Arsi	OZ- 01	
	Profile items	7.101	Profile	1
01	Population			•
	Town male / female / total	by OWRB	5,044 5,882 10,92	6
	Woreda male / female / total	by Census 2007	69,471 70,942 140,41	
	percentage of Town in Woreda		7.89	
-	Town Coordination UTM (Adindan) Town Status	Easting / Northig / Alt.	517142 857073 2,52 Municipally	1
-	Water Source		Wumerpany	
	04-01 Water source	Type, No.	Spring*2nos. 22km from Town	
	04-02 Well spec. Dep	oth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	No.1 Pump / No.2 Gravity	
	04-04 Pump Spec.	Type, Yield	No.1 Morotized pump	
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours)	Type, Kva daily hours, time	No.1 Commercial Elec. With standby Generate No.1 11hrs. 19:00~08:00 /No.2 24hrs.	
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen	non, Puorideetc.	5000	
		the control of the co		
	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	2004	
	05-02 Financial of implementation	Donor's name	OWRB	
	05-03 Name of implementation (Project name)		Gugesa water project	
	05-04 Intake Type 05-05 Intake No.		Spring 2nos.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	No.1 GIP 4" 800m / No.2 PVC 3" 6,000m	1
	05-07 Power to convey	Pressure, Gravity	No.1 Pressure / No.2 Gravity	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Туре	GR	
	05-11 Water reserver No.	no.	GR*5nos. 100m3*2nos. / 50m3*1no. / GR25m2*2nos	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	m3 Pipe material, length	nil.	· .
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	see below memo	!
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.		
	05-18 Number of water point (Public Faucet, PF)	no.	25 (Town 9 / Rural 16)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6 4.3m3./day	
	05-20 Average of daily water consumption at a water point (PF 05-21 Number of House Connection (HC)) m3/day	4.3m3./day 834	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.166m3/day	
	05-23 Number of Business Conection (BC)		72	
		ol, Gov. office, Hospitaletc.	Gov. School, Hotel, Hospital	
	05-25 Average of daily water consumption of Business Connection (BC) m3/day	0.166m3/day	
	05-26 Other technical specimen			
06	Operation and Maintenace			+
	06-01 Organization's name		Town warter supply servise	
		egional, Zone, Enterpriceetc.	OWRB	
	06-03 Number of thechnical staff		5	
	06-04 Principal works of technical staff		Pump Operation, Plumbin	
	06-05 Number of the financial staff		4	
	06-06 Principal works of financial staff		Water meter read, Bill	
	06-07 Categories of water tariff W. 3 06-08 Water tariff rate	Point, House Connectionetc.	W.Point, House Conection (Incl. B.Connection)
	Water point (Public faucet)	Birr/L, 20L	0.05 birr / 20L	
	House connection	Birr/m3	see below memo	+
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	20,000birr/month	
		n, Zonal Cap. Reg. Capetc.		
			Pipe fitting, Water meter, Filters	
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by Org	anization, Gov., Donorsetc.	Generator broken NGO (Ethio-Italy)	
	06-14 Fund for above 6-09, 6-10 by Org	anization, Gov., Donoisetc.	1.00 (Euno-imiy)	
	Common operation			

O-06 Sague

			1	
	Problem of actual town water supply			
	07-01 Technical Water source	O	NI-4 h	. J (C:-l
		Quantity, Qualityetc. leakage, design failureetc		ed (Specialy water source ec. Power, Skilled Monpower
	07-02 Finalcial	icakage, design famureetc	Diackout of Lic	c. I ower, Skined Monpower
	Management		Not be graspe	-d
	Rate of water tarrif collection		Not be graspe	-d
	Personnel expenses		Not be graspe	
	Shourtage of budget to execute operation & maintenace		Not be graspe	
	07-03 Other incidential, Special specimen		rvot be graspe	Д
	Increase in population to consume water coming from	m other towns, villagesetc	coming from	villages
		crease factory, Tradingetc		
		Ethnic, Administrativeetc		
	07-04 Other specimen		Not be graspe	ed
)8	Geographical condition (Slope on mountaion, bottom of	of valley, Top of ridgeetc.)	
	Town is on the flat area.			
)9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
0	Current Water Coverage (%) (by water consumption at faucets)			87%
	(4.43m3*9PF+0.166m3*834HC+0.166m3*72BC)=190.3m3/day 190		9,515persons	
	Current Water Coverage (%) (by water product at wells and/or sp			185%
	(8L.sec.*3600sec.*11hrs)+(1Lsec.*3600sec.*24hrs)=403200L/day=403m3/day	y 403m3/20Lcd=20160 persos	20160person	ns/10926population=185%
1	Water Potential (A / B / C / D / E)			В
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub		Approached	B / B
	A=Road Width > 6 m $/$ B= >3			
	Access road is Base course & detour 25km from Asela where is u			
3	Manpower Capability of Water Supply Management by Water Of	ffice (point)		16
	Dgree of urgency (A / B / C / D / E)			
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7			
	Refer to Chapter 5 & 7 New Water Supply Plan		harden The	
	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not	t required more advanced tec	hnology. The	small town is on the
	Refer to Chapter 5 & 7 New Water Supply Plan	t required more advanced tec	hnology. The	small town is on the
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not	t required more advanced tec	hnology. The	small town is on the
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult.	t required more advanced tec	hnology. The	small town is on the
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's	t required more advanced tec	hnology. The	small town is on the
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's	t required more advanced tec	hnology. The	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group	t required more advanced tec		
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil.	t required more advanced tec		
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	t required more advanced tec	Amhara, Oron	
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	t required more advanced tec	Amhara, Oron	mo
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Amhara, Oroi	mo
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Amhara, Oron Health Center 23	mo r, Private clinic, Drug stor
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Amhara, Oron Health Center 23 Typhoid	mo r, Private clinic, Drug stor 1,500
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Amhara, Oron Health Center 23 Typhoid Dysentery	r, Private clinic, Drug stor 1,500 1,000 500
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Amhara, Oron Health Center 23 Typhoid Dysentery others	r, Private clinic, Drug stor 1,500 1,000 500
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Amhara, Oron Health Center 23 Typhoid Dysentery others	r, Private clinic, Drug stor 1,500 1,000 500
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	km persons / year	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	r, Private clinic, Drug stor 1,500 1,000 500
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year vm at the moment. It shall be	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the standard content of the second content	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 7 3	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks:	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks:	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks:	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month 10 (Town sketchetc.):	km persons / year wm at the moment. It shall be the town to be opened soon, the	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month no (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m	km persons / year wm at the moment. It shall be the town to be opened soon, the high.	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin	nno r, Private clinic, Drug stor 1,500 1,000 500 ng, Waving
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month no (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m (Rural a	km persons / year wm at the moment. It shall be town to be opened soon, the high.	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula	nno 1,500 1,000 500 ng, Waving attion and water demand
5 6 7 7 8 8 9 0 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month 10 (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m PVC 2*1/2"=5,000m (Rural a	km persons / year wm at the moment. It shall be the town to be opened soon, the high.	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula	nno 1,500 1,000 500 ng, Waving attion and water demand
5 6 7 8 9 00 E1	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month no (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m (Rural a	km persons / year wm at the moment. It shall be town to be opened soon, the high.	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula	nno 1,500 1,000 500 ng, Waving attion and water demand
5 6 7 8 9 00 E1	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month 10 (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m PVC 2*1/2"=5,000m (Rural and 105-15 Distribution Type (Spring No.2) PVC 3" 6,000m	km persons / year wm at the moment. It shall be town to be opened soon, the high.	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula	nno 1,500 1,000 500 ng, Waving attion and water demand
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5 6 7 8 9 9 0 0 E1	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month 10 (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"-5,000m PVC 2*1/2"=9,000m PVC 2*1/2"=5,000m (Rural a constitution of the	km persons / year wm at the moment. It shall be ne town to be opened soon, the high. Total L=20,000m (incl. Rur.) Water meter lease;	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula	nno 1,500 1,000 500 ng, Waving ation and water demand
5 6 7 8 9 00 E1	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month 100 (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m PVC 2*1/2"=5,000m (Rural a continuous) 05-15 Distribution Type (Spring No.2) PVC 3" 6,000m 06-08 Water Tariff (House and Business Connection) 0 ~ 3 m3 = 2.35birr/m3 9 ~ 11 m3 = 3.65birr/m3 4 ~ 5 m3 = 2.80birr/m3 11m3 ~ = 4.00birr/m3	km persons / year wm at the moment. It shall be to town to be opened soon, thigh. ara) Total L=20,000m (incl. Rur.) Water meter lease; dia. 1/2"= 5.0birr/month	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula al ara 25,000m dia. 1*1/2"=2	mo 1,500 1,000 500 ng, Waving ation and water demand
55 66 88 99 00	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not generally flat terrains, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Distribution pipe network is insufficient for water coverage in tow The existing water source is spring. Due to the main road along the became growth. Therefore, beneficial effect of the new facility is Remarks: Elec. fee 8,000birr/month 100 (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 6"=5,000m PVC 2*1/2"=9,000m PVC 2*1/2"=5,000m (Rural a continuous) 05-15 Distribution Type (Spring No.2) PVC 3" 6,000m 06-08 Water Tariff (House and Business Connection) 0 ~ 3 m3 = 2.35birr/m3 9 ~ 11 m3 = 3.65birr/m3 4 ~ 5 m3 = 2.80birr/m3 11m3 ~ = 4.00birr/m3	km persons / year wm at the moment. It shall be ne town to be opened soon, the high. Total L=20,000m (incl. Rur.) Water meter lease;	Amhara, Oron Health Center 23 Typhoid Dysentery others Trade, Farmin expanded. he town popula	mo 1,500 1,000 500 ng, Waving ation and water demand

O-06 Sague



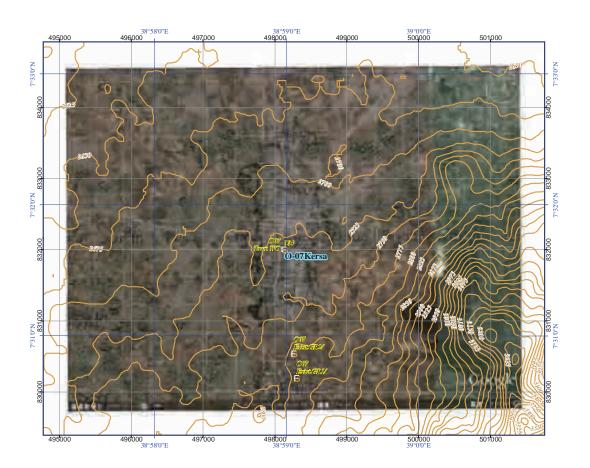
O-07 Kersa

	Oromia Region			6 /30	
	Name of small town		Kersa	O- 07	
	Name of Woreda	:	Munesa	OW- 05	
	Name of Zone	:	Arsi	OZ- 01	
0.4	- · ·	Profile items		Profile	
01	Population Town	male / female / total	by OWRB	4,803 5,113 9,	916
	Woreda	male / female / total	by Census 2007	82,497 83,917 166,	
	percentage of Town in Wor		by Census 2007		.0%
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.		728
03	Town Status			Municipality	
04	Water Source				
	04-01 Water source		Type, No.	Spring*1no. 6km from Town	
	04-02 Well spec. 04-03 Method of water draw		Depth., Casing Dia., S.W.L, Yield Pump, Gravity	U.5L/sec. Gravity	
	04-04 Pump Spec.		Type, Yield	Inil.	
	04-05 Power source for motorized	l nump	Type, Kva	nil.	
	04-06 Durartion of water draw (O		daily hours, time	24hrs.	
	04-07 Water quality	<u></u>	Iron, Fluorideetc.	good	
	04-08 Other technical specimen				
0 -					
05	Existing Water Supply Facilities		(0 : 1 1)	1000	
	05-01 Established year 05-02 Financial of implementation	n	(Gregorian calendar) Donor's name	1990 OWRB	
	05-02 Financial of implementation (F		DOHOLS HAIRE	Kersa water project	
	05-04 Intake Type	Toject name)		Spring	
	05-05 Intake No.			lno.	
	05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP 4" 10,000m (10km)	
	05-07 Power to convey		Pressure, Gravity	Gravity	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Туре	GR GR#2	
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	GR*2nos. GR100m3*1no., GR25m2*1no.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booste	er pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	<u>- F</u>	Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	GIP 3"~3/4" see below memo 12,5	600n
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water poi		RC, Masonry, Pipeetc.		
	05-18 Number of water point (Pul		no.	16	11/10
	05-19 Number of faucet at a wate 05-20 Average of daily water con			2faucet*7WP/4Faucet*4WP/5Faucet*5 1.9m3/day (57.6m3/month)	WP
	05-20 Average of daily water con 05-21 Number of House Connecti		(FI) III3/day	1.003	
	05-22 Average of daily water consur		HC) m3/day	0.41m3/day	
	05-23 Number of Business Conec	tion (BC)	<u> </u>	50	
	05-24 Type of Business Connection		chool, Gov. office, Hospitaletc	Gov., School, Hospital, Hotel	
	05-25 Average of daily water consum	ption of Business Connection	(BC) m3/day	1.12m3/day	
	05-26 Other technical specimen				
)6	Operation and Maintenace				+
70	06-01 Organization's name			Town water supply servise	
	06-02 Type of organization		Regional, Zone, Enterpriceetc		
	06-03 Number of thechnical staff			1	
	06-04 Principal works of technica	l staff		Plumbing, Pipe repair	
	06-05 Number of the financial sta			10	
	06-06 Principal works of financia	l staff	****	Water meter count, Bill	
	06-07 Categories of water tariff		W.Point, House Connectionetc.	W. Point, House Connecti	
	06-08 Water tariff rate Water point (Public faucet)		Birr/L, 20L	2.0birr/m3	
	House connection		Birr/m3	see below memo	
	Business connection		Birr/m3	ditto	
	06-09 Average monthly income b	y water tariff	Birr/month	26,000birr/month	
	06-10 Procurement of spare parts		own, Zonal Cap. Reg. Capetc.	Asela, Addis Ababa	
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious r		onal office, Private companyetc		
	06-13 Principal serious repair with			nil.	
	06-14 Fund for above 6-09, 6-10	by	Organization, Gov., Donorsetc	Town Water Office	
	06-15 Other technical specimen				

O-07 Kersa

		1		
07				
	07-01 Technical			
	Water source Quantity, Qualityetc.	Water shorta	ge	
	Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial			
	Management	Demand peri	nanent office	
	Rate of water tarrif collection			
	Personnel expenses	Shortage staf	f number	
	Shourtage of budget to execute operation & maintenace			
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town is alomost Flat area with gentle slope			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		251	% !
	(1.9m3*16PF+0.41m3*1003HC+1.12m3*50BC)=497.63m3/day 497.63m3/20Lpcd.= 24,881persons 24,8	881persons /9,9	6 population =	251%
	Current Water Coverage (%) (by water product at wells and/or springs)		229	
		50persons/991	6population=	22%
11	Water Potential (A / B / C / D / E)		В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	C /	С
	A=Road Width > $6 \text{m /B} = 3 \sim 6 \text{m / C} = 1 \sim 3 \text{m / D} = < 1 \text{m}$			
	Access road is Sub grade 55km from Asela / from Adele, Lake Langano (50km)			
13	Manpower Capability of Water Supply Management by Water Office point)		15	5
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
1.5	New Water Supply Plan			
	New Water Supply Flan			
	***	hnology The	small town is	on the
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is	on the
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities.	hnology. The	small town is	on the
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is	on the
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities.	hnology. The	small town is	on the
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's		small town is	on the
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities.	hnology. The	small town is	on the
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group		small town is	on the
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions	Oromo		
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Health Cente	small town is	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Center 57	r, Private clin	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Health Cente 57 Diarrhea	r, Private clin	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 57 Diarrhea Dysentery	r, Private clin 1,200 607	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 57 Diarrhea Dysentery Typhoid	r, Private clin 1,200 607 415	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Remarks: Access is base cource of asphalt pavement. (Gravel road) mo (Town sketchetc.): 05-15 Distribution Type (GIP)	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Remarks: Access is base cource of asphalt pavement. (Gravel road) mo (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m 2*1/2" = 1,000m 1" = 1,000m 2" = 3,500m 3/4" = 3,000m Total = 12,500m O6-05 Water tariff Water meter lease; O-3m3 = 3.15birr/m3 8~11m3 = 5.30birr/m3 Dia. 1/2" = 2.0birr/month	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Remarks: Access is base cource of asphalt pavement. (Gravel road) mo (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m 2*1/2" = 1,000m 1" = 1,000m 2" = 3,500m 3/4" = 3,000m Total=12,500m O6-05 Water tariff Water meter lease; 0-3m3 = 3.15birr/m3 8~11m3 = 5.90birr/m3 Dia. 1/2" = 2.0birr/month 3~5m3 = 4.20birr/m3 11m3~ = 5.90birr/m3 Dia. 3/4" = 3.0birr/month Dia. 3	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Remarks: Access is base cource of asphalt pavement. (Gravel road) mo (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m 2*1/2" = 1,000m 1" = 1,000m 2" = 3,500m 3/4" = 3,000m Total = 12,500m O6-05 Water tariff Water meter lease; O-3m3 = 3.15birr/m3 8~11m3 = 5.30birr/m3 Dia. 1/2" = 2.0birr/month	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Remarks: Access is base cource of asphalt pavement. (Gravel road) mo (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m 2*1/2" = 1,000m 1" = 1,000m 2" = 3,500m 3/4" = 3,000m Total=12,500m O6-05 Water tariff Water meter lease; 0-3m3 = 3.15birr/m3 8~11m3 = 5.90birr/m3 Dia. 1/2" = 2.0birr/month 3~5m3 = 4.20birr/m3 11m3~ = 5.90birr/m3 Dia. 3/4" = 3.0birr/month Dia. 3	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Remarks: Access is base cource of asphalt pavement. (Gravel road) mo (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m 2*1/2" = 1,000m 1" = 1,000m 2" = 3,500m 3/4" = 3,000m Total=12,500m O6-05 Water tariff Water meter lease; 0-3m3 = 3.15birr/m3 8~11m3 = 5.90birr/m3 Dia. 1/2" = 2.0birr/month 3~5m3 = 4.20birr/m3 11m3~ = 5.90birr/m3 Dia. 3/4" = 3.0birr/month Dia. 3	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clin 1,200 607 415 950	ic, Drug store

O-07 Kersa



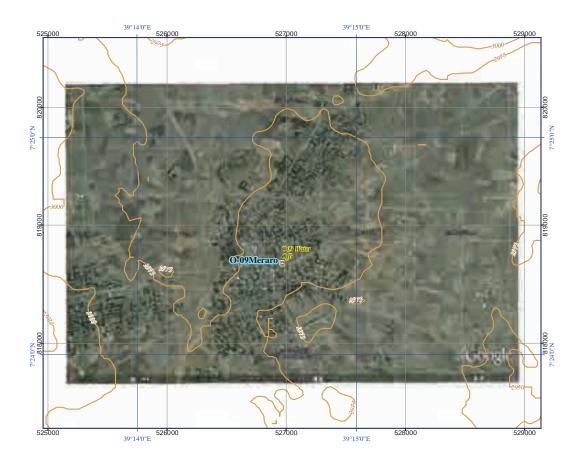
O-09 Merano

	Oromia Region			7 /3	30
	Name of small town :	Merano		O- 0	9
	Name of Woreda :	Limana Bilbi	lo	OW- 2	0
	Name of Zone :	West Arsi		OZ- 0	4
	Profile items			Profile	!
01	Population Town male / female / total	h OWDD	2 224	2.401	4.725
	Woreda male / female / total	by OWRB by Census 2007	2,234 89,853	2,491 91,936	4,725 181,789
	percentage of Town in Woreda	by Consus 2007	07,033	71,750	2.6%
	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	526870	818549	2,979
	Town Status		Municipality		
04	Water Source 04-01 Water source	T N-	Spring * 1no. (I	Dunina Dainy	.coccom)
		Type, No. oth., Casing Dia., S.W.L, Yield		During Kaniy	season)
	04-03 Method of water draw	Pump, Gravity	Gravity		
	04-04 Pump Spec.	Type, Yield	nil.		
	04-05 Power source for motorized pump	Type, Kva	nil.		
	04-06 Durartion of water draw (Operation hours)	daily hours, time	07:30-09:00 (1	.5hrs./day)	
	04-07 Water quality 04-08 Other technical specimen	Iron, Fluorideetc.	food		
	04-08 Other technical specimen				
05	Existing Water Supply Facilities				
	05-01 Established year	(Gregorian calendar)	1989		
	05-02 Financial of implementation	Donor's name	Not grasped		
	05-03 Name of implementation (Project name) 05-04 Intake Type		Merano water p	project	
	05-04 Intake Type 05-05 Intake No.		Spring 1no.		***************************************
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 3", 1,000n	1	
	05-07 Power to convey	Pressure, Gravity	Gravity		
	05-08 Water treatment	Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity	m3/day	nil.		
	05-10 Water reserver type	Туре	GR		
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	1no. 25m3		
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit	Pressure, Gravity	nil.		
	05-15 Distribution Type	Pipe material, length	See below mem	10	
	05-16 Power to distribute	Pressure, Gravity	Gravity		
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.			
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6 (3 function) 6FC*5PF, 1FC	*2DE	
	05-20 Average of daily water consumption at a water point (PF		2.0m3/day	ZFI	
	05-21 Number of House Connection (HC)	, mis/day	63		
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.1m3/day		
	05-23 Number of Business Conection (BC)		8		
		ol, Gov. office, Hospitaletc.	Mosque, Schoo	l, Gov.	
	05-25 Average of daily water consumption of Business Connection (BC 05-26 Other technical specimen) m3/day	0.47m3/day		
	03-20 Other technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name		Town water off		
		egional, Zone, Enterpriceetc.		sed organizati	on
	06-03 Number of thechnical staff		nil.		
	06-04 Principal works of technical staff 06-05 Number of the financial staff		nil.		***************************************
	06-06 Principal works of financial staff		Water meter rea	ad. Bill Wate	er sale
	*	Point, House Connectionetc.	W. Point, House		- 5410
	06-08 Water tariff rate				
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L		
	House connection	Birr/m3	1.5birr/m3		
	Business connection 06-09 Average monthly income by water tariff	Birr/m3 Birr/month	ditto 350birr/m3		
	<u> </u>	n, Zonal Cap. Reg. Capetc.	Addis Ababa		
	* * *	il filter, Fuel filter, Pipesetc			
	06-13 Principal serious repair with 5-10 years		Pipe leakage		
		anization, Gov., Donorsetc.	Water committee	ee	
	06-15 Other technical specimen				
i					

O-09 Merano

07	Problem of actual town water supply					1
	07-01 Technical					
	Water source		Quantity, Qualityetc.	Shortage wat		
	Water supply facility	Decrepit	, leakage, design failureetc	Not supply v	vater arround intake area	
	07-02 Finalcial Management			Shortage bud	last	
	Rate of water tarrif collection			Not grasped	iget	
	Personnel expenses			low		
	Shourtage of budget to execute			Shortage buc	lget for O&M	
	07-03 Other incidential, Special special			G : C		
	Increase in population to consur Change in industry		om other towns, villagesetc acrease factory, Tradingetc		n otner towns & villagers	
	Human conflict		Ethnic, Administrativeetc			
	07-04 Other specimen					
			2 II M 2 II			
08	Geographical condition (Slo Town is on the slope of mountain & fl		of valley, Top of ridgeetc.))		
	10wii is on the slope of mountain & I	ur ur cu.				
09	Necessary Institution (Facility, Materi	al)				
	Refer to Chapter 4 "Table 4.7"					
						-
10	Current Water Coverage (%) (by water				17%	!
	(2.0m3*3PF+0.10m3*63HC+0.47m3*)5persons / 4,	725 population = 17%	
	Current Water Coverage (%) (by data	of water source product))				<u> </u>
11	Water Potential (A / B / C / D / E)				С	
11	THE RESTRICTION OF THE PROPERTY OF THE PROPERT			***************************************		
12	Accessibility (A / B / C / D / E) A=	Asphalt/B=Base Course/C=Sul	Grade/D=Only Dry Season/E=Not	Approached	B/C	
			3~6m / C= 1~3m / D= <1m			
12	Access road is Base cource and Sub gr		NCC: 4 - i6)		9	-
13	Manpower Capability of Water Supply	Management by water C	office point)		9	-
14	Dgree of urgency (A / B / C / D / E)					
	Refer to Chapter 5 & 7					
15	New Water Supply Plan					-
13	Refer to the Chapter 6					-
1.5	O.I. D. MGO!					
16	Other Donors, NGO's Refer to the Chapter 6					
	Keler to the Chapter o					
17	Main Ethnic Group			Oromo		
10	TT 10 P.C					
18	Health conditions -1 Medical facilities in Town		Health Cente	er Private clir	nic, Drug store, Health pos	er .
	-2 Nearest other facilities from To	wn	km	71	ne, Drug store, Hearth pol	
	-3 Main patients of water born dise		persons / year	Typhoid	1,500	
				Dysentery	300	
				Diarrhea others	17 1,300	
19	Main economic activities			Trade, Farmi		1
Ĺ						
20	Particular comments :					
1	The existing water source (spring) is n	ot staible by seasonal water	er product. Therefore, benefic	al effect of th	ne new tacility is high.	-
1						
21	Remarks:					
1			f the town administration Mob			
			mmittee chairman Mob. 0913 e head of water committee 09		9451	-
Men	io (Town sketchetc.):	i. Chana Dechassa Financ	e nead of water committee 09	10831709		
	(// // // // // // // // // // // // /		1		1	
	05-15 Distribution Type					
		P 2"=840m		T-4-11 (22	20	-
-	GIP 2*1/2"=350m PV	/C 1*1/2"=1,190m		Total L=6,38	DUIII	J
 						

O-09 Merano



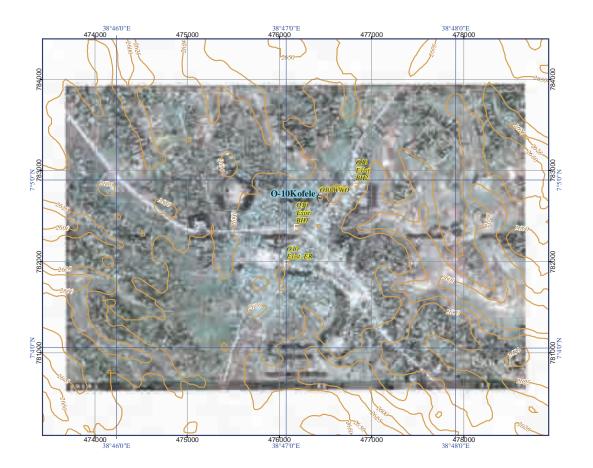
O-10 Kofele

	Oromia Region		8 /30	
	Name of small town :	Kofele	O- 10	
	Name of Woreda :	Kofele	OW- 08	
	Name of Zone :	West Arsi	OZ- 04	
	Profile items		Profile	!
01	Population Town male / female / total Woreda male / female / total	by OWRB by Census 2007	7,340 7,061 14,401 90,000 89,508 179,508	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	8.0% 476343 782584 2,648	
	Town Status	Easting / Northing / Art.	Municipality 7,045	
	Water Source		Mamorpanty	
	04-01 Water source	Type, No.	BH Well * 2nos.	
		th., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	Pump	
	04-04 Pump Spec.	Type, Yield	Motorized pump 15kw	
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours)	Type, Kva	Comercial Elec., Stand by Generator (Brokecn) 08:00-12:00, 14:00-22:00 (12hrs./day)	
	04-06 Durartion of water draw (Operation nours) 04-07 Water quality	daily hours, time Iron, Fluorideetc.	good (12nrs./day)	
	04-08 Other technical specimen	Holl, Fluorideetc.	good	
	o i do dulo termina specimon	transfer of the state of the st	•	
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1975	
	05-02 Financial of implementation	Donor's name	Chilallo Agriculture Development Unit	
	05-03 Name of implementation (Project name) 05-04 Intake Type		Kofeletown water project Well	
	05-05 Intake No.		lno.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2", 2,000m	
	05-07 Power to convey	Pressure, Gravity	Pressure	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Type	ER	
	05-11 Water reserver No.	no.	2nos.	
	05-12 Water reserver Capacity	m3	10m3*2nos. (Roto tanks)	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	See below memo	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	3 (not function)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	4	
	05-20 Average of daily water consumption at a water point (PF)		nil.	
	05-21 Number of House Connection (HC)	iii3/day	650	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.167m3/day	
	05-23 Number of Business Conection (BC)		Not grasped	
	05-24 Type of Business Connection (BC) Factory, School	ol, Gov. office, Hospitaletc.	Not grasped	
	05-25 Average of daily water consumption of Business Connection (BC)	m3/day	Not grasped	
	05-26 Other technical specimen			
06	Operation and Maintenace			
00	06-01 Organization's name		Town water supply service	
		egional, Zone, Enterpriceetc.	11.	
	06-03 Number of thechnical staff	<u> </u>	3	
	06-04 Principal works of technical staff		Pump operation, Plumbing&repair	
	06-05 Number of the financial staff		3	
	06-06 Principal works of financial staff		Water meter read, Bill	
		Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate Water point (Public foucet)	Dire/I 20I	Not function	
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	Not function See below memo	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	7,000birr/month	
		n, Zonal Cap. Reg. Capetc.		
		il filter, Fuel filter, Pipesetc		
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Pumpmotor burned	
		anization, Gov., Donorsetc.	Region, Municipality	
	06-15 Other technical specimen			

O-10 Kofele

07	Problem of actual town water supply				
07	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorta	ige	
	Water supply facility	Decrepit, leakage, design failureet	Superannuat	ion	
	07-02 Finalcial				
	Management		Not grasped		
	Rate of water tarrif collection		low		
	Personnel expenses		nil.		
	Shourtage of budget to execute operation & ma	aintenace	Shortage buc	lget for O&M	_
	07-03 Other incidential, Special specimen				
	Increase in population to consume water	coming from other towns, villageset			
	Change in industry	increase factory, Tradingetc			
	Human conflict	Ethnic, Administrativeet	nıl.		
	07-04 Other specimen				
00					_
Uð	Geographical condition (Slope on mountai Town is on the flat area.	ion, bottom of valley, Top of ridgeetc	.)		
	Town is on the flat area.				
09	Necessary Institution (Facility, Material)				_
0)	Refer to Chapter 4 "Table 4.7"				
	Telefit of Chapter 1 Table 1.7				
10	Current Water Coverage (%) (by water consumption	at faucets)		38%	\neg
	(0m3*3PF+0.167m3*650HC+0.167*0BC)=108.6m3	3/day 108.6m3/20Lpcd.= 5,427 persons	5,427person		389
	Current Water Coverage (%) (by data of water source		•	%	_[
	((??L+4.4L)*3600min*8hrs)=???L ???L/20L=???p		?%		
11	Water Potential (A / B / C / D / E)			В	
12		Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	A/B	
		> 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access is asphalt road 26km from Sheshemane * Re		of accessibility		\perp
13	Manpower Capability of Water Supply Management	by Water Office point)		13	
				T	-
	Dgree of urgency (A / B / C / D / E)				
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
		I, whichis not required more advanced te	chnology. The	small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan			small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i			e small town is on the	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's		r sources.		
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i				
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group		r sources.		
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions	s required some ingenuitiesarround wate	Oromo, Gura	age	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	s required some ingenuitiesarround wate	Oromo, Gura		DOS
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	s required some ingenuitiesarround wate	Oromo, Gura	age , Private clinic, Health p	DOS
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	s required some ingenuitiesarround wate	Oromo, Gura Health Center 41 Typhoid	age , Private clinic, Health p 1,500	DOS
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	s required some ingenuitiesarround wate	Oromo, Gura Health Center 41 Typhoid Dysentery	age , Private clinic, Health p 1,500 300	0008
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	s required some ingenuitiesarround wate	Oromo, Gura Health Center 41 Typhoid	age , Private clinic, Health p 1,500	oos
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	s required some ingenuitiesarround wate	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others	nge , Private clinic, Health p 1,500 300 97	DOS
115 116 117	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	s required some ingenuitiesarround wate	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others	age , Private clinic, Health p 1,500 300 97 800	oost
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	s required some ingenuitiesarround wate	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others	age , Private clinic, Health p 1,500 300 97 800	oost
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	km persons / year	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others	age , Private clinic, Health p 1,500 300 97 800	oos
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others	age , Private clinic, Health p 1,500 300 97 800	oos
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Current water supply methord is by private connections.	km persons / year	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others	age , Private clinic, Health p 1,500 300 97 800	oos
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year ons and public faucets are not operated.	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others Trade, farmi	age , Private clinic, Health p 1,500 300 97 800 ng, Livestock	oos
115 116 117 118 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Current water supply methord is by private connections.	km persons / year ons and public faucets are not operated. Mr. Gobena Berati Committi	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others Trade, farmi	age , Private clinic, Health p 1,500 300 97 800 ng, Livestock	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Current water supply methord is by private connections.	km persons / year ons andpublic faucets are not operated. Mr. Gobena Berati Committ Mr. Yesma Negatu Chaimar	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others Trade, farmi	age 1, Private clinic, Health p 1,500 300 97 800 ng, Livestock 916319427, mmittee Mob. 09160556	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Current water supply methord is by private connection. Remarks:	km persons / year ons and public faucets are not operated. Mr. Gobena Berati Committi	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others Trade, farmi	age 1, Private clinic, Health p 1,500 300 97 800 ng, Livestock 916319427, mmittee Mob. 09160556	
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15 16 17 18 19 20 21	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard generally flat terrains, however, construction works i Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Current water supply methord is by private connection Remarks: 0 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1975 GL-??m / Casing Well No.2; Estbsh on ???? GL-200m / Casin O5-15 Distribution Type GIP 2"=3,000m PVC 1*1/2"=3,00 PVC 1"=2,300m PVC 1"=2,300m PVC 2"=400m	km persons / year Mr. Gobena Berati Committ Mr. Yesma Negatu Chaiman Mr. Seid Ahemed Casher M g dia.??" / SWL GL-??m ??L/sec. g dia. 8" / SWL GL-115m / 4.4L/sec.	Oromo, Gura Health Center 41 Typhoid Dysentery Diarrhea others Trade, farmi	age 1, Private clinic, Health p 1,500 300 97 800 ng, Livestock 916319427, mmittee Mob. 09160556	
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O-10 Kofele



O-11 Kulumsa

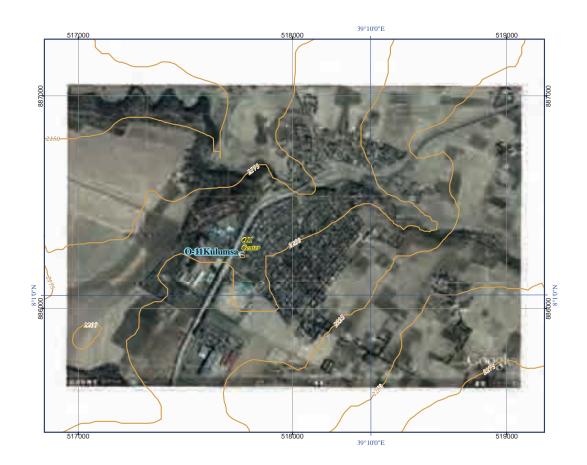
Nie von af a continue	17	9 /30
Name of small town :	Kurumusa	
Name of Woreda :	Tiyo	OW- 03
Name of Zone :	Arsi	OZ- 01
Profile items		Profile
1 Population		
Town male / female / total	by OWRB	1,596 1,876 3,472
Woreda male / female / total	by Census 2007	43,443 43,284 86,727
percentage of Town in Woreda		4.0%
2 Town Coordination UTM (Adindan)	Easting / Northig / Alt.	517670 886130 2,215
Town Status Water Source		Town administration
04-01 Water source	Type, No.	nil. Distributed from Asela
	Depth., Casing Dia., S.W.L, Yield	
04-03 Method of water draw	Pump, Gravity	Gravity
04-04 Pump Spec.	Type, Yield	nil.
04-05 Power source for motorized pump	Type, Kva	nil.
04-06 Durartion of water draw (Operation hours)	daily hours, time	12hrs./day
04-07 Water quality	Iron, Fluorideetc.	good
04-08 Other technical specimen		
Existing Water Supply Facilities		
05-01 Established year	(Gregorian calendar)	1989
05-02 Financial of implementation	Donor's name	OWRB
05-03 Name of implementation (Project name)		Goneda Kulumusa water project
05-04 Intake Type		Spring (Goneda spring)
05-05 Intake No.	D' ('11 d	lno.
05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	Not grasped (from Asela)
05-07 Power to convey 05-08 Water treatment	Pressure, Gravity	Gravity nil.
05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc. m3/day	nil.
05-10 Water reserver type	Type	nil.
05-10 Water reserver type	no.	nil.
05-12 Water reserver Capacity	m3	nil.
05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.
05-14 Power to transmit	Pressure, Gravity	nil.
05-15 Distribution Type	Pipe material, length	GIP, 3"*1,000m, 1"*70m Total 1,070m
05-16 Power to distribute	Pressure, Gravity	Gravity
05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	Manosonry
05-18 Number of water point (Public Faucet, PF)	no.	2
05-19 Number of faucet at a water point (Public Faucet, PF		2
05-20 Average of daily water consumption at a water point	(PF) m3/day	4.0m3/day
05-21 Number of House Connection (HC)		nil.
05-22 Average of daily water consumption of House Connection(HC) m3/day	nil.
05-23 Number of Business Conection (BC)		nil.
	chool, Gov. office, Hospitaletc.	
05-25 Average of daily water consumption of Business Connection	(BC) m3/day	nil.
05-26 Other technical specimen		
Operation and Maintenace		
06-01 Organization's name		Kulumsa Kebele water committee
06-02 Type of organization	Regional, Zone, Enterpriceetc	L
06-03 Number of thechnical staff	Regionar, Zone, Encipriceee	nil.
06-04 Principal works of technical staff		nil.
06-05 Number of the financial staff		2
06-06 Principal works of financial staff		Water sale
06-07 Categories of water tariff	W.Point, House Connectionetc.	W. Point
06-08 Water tariff rate		
Water point (Public faucet)	Birr/L, 20L	1.0birr/month/household
House connection	Birr/m3	nil.
Business connection	Birr/m3	nil.
06-09 Average monthly income by water tariff	Birr/month	800birr/month
	Yown, Zonal Cap. Reg. Capetc.	
06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc	
06 10 34 4 11 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onai office, Private companyetc	Lulumsa agricultural research center
		W-4II C '
06-13 Principal serious repair with 5-10 years	Organization C P	Water Leakage from pipes
06-13 Principal serious repair with 5-10 years	Organization, Gov., Donorsetc.	

O-11 Kulumsa

07	Problem of actual town water supply				
	07-01 Technical				
	Water source Quantity, Qua	alityetc. Water	shortag	е	
	Water supply facility Decrepit, leakage, design far	ilureetc There	are not o	own water supply facility.	!
	07-02 Finalcial				
	Management	low			
	Rate of water tarrif collection	low			1
	Personnel expenses	low			
	Shourtage of budget to execute operation & maintenace	Shorta	ge budg	et for O&M	
	07-03 Other incidential, Special specimen		8		
	Increase in population to consume water coming from other towns, ville	lagos eta Comin	or from	villagare	-
	Change in industry increase factory, Trac	ding oto Eactor	y Inetit	uda cantar	
	Human conflict Ethnic, Administra		y, 1115tit	ude center	
		ativeetciiii.			ļ
	07-04 Other specimen				-
00		1 ()			-
Uð	Geographical condition (Slope on mountaion, bottom of valley, Top of ric	ageetc.)			
	Town is on the flat area.				
0.0					
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
					<u> </u>
10	Current Water Coverage (%)		L	12%	!
	(4.0m3*2PF+0m3*0HC+0m3*0BC)=8.0m3/day 8.0m3/20Lpcd.= 400persons 40	00persons / 3,472	populat	ion = 12%	
	Current Water Coverage (%) (by data of water source product))			%	
	((??L)*??min*??hrs)=??L ??L/20L=??persons ??persons/3472population=??%				
11	Water Potential (A/B/C/D/E)			В	
					1
12.	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Se	eason/E=Not Approac	ched	A/A	
	A=Road Width > 6m /B= >3~6m / C= $1\sim3$ m / D			**/ **	†
	Access road is Asphalt road 8km from Asela. * Refer to Chapter 5 "Table 5-7: Cate		hility"		
13	Manpower Capability of Water Supply Management by Water Office point)	egories or decessi	- I	8	-
13	wanpower Capability of water suppry management by water office pointy		L	0	
1.4	D				
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
	Refer to the Chapter 6				

16	Other Donors, NGO's				
	Refer to the Chapter 6				
17	Main Ethnic Group	Amhai	ra, Oron	10	
18	Health conditions				
	-1 Medical facilities in Town	Private	e clinic		-
	-2 Nearest other facilities from Town km		7		
	-3 Main patients of water born diseases persons / year	Typho	id	200	
		- 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7			
19	Main economic activities	Wavin	g, Trad	2	t
-/		77 47111	o, 1144	-	†
20	Particular comments :				t
20	Town has not own water supply facility. Existing water facility (distribution) is supp	nlied from Apola 6	OWn		!
				e facility is liited on	 •
	Water supply of this town is transmission pipe line from adjacent town which is inst			s racinty is inted an	
21	amount of water and decrepit. The new water supply facility for own of this town to	be beneficiary ef	iect.		├
21	Remarks:				
					<u></u>
				b. 0910418924, 0223314	1886
	Mr. Tibesa Tese Kebele Cabine member Mob.0922030568Mr. Getachew Taf	ffa Water saler 09	1042748	38	
Men	no (Town sketchetc.):				
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O-11 Kulumsa



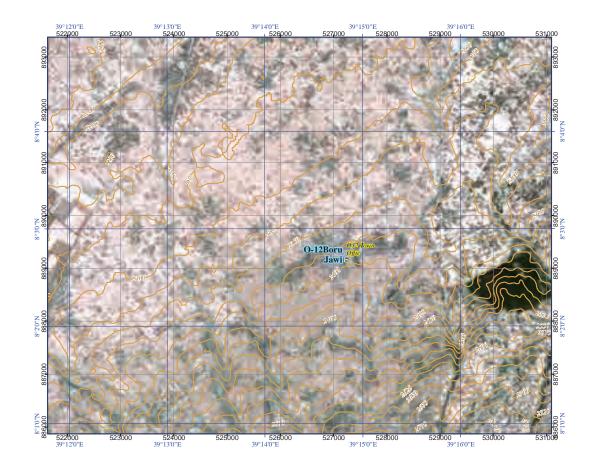
O-12 Boru Jawi

	Oromia Region			10 /30	
	Name of small town	:	Boru Jawi	O- 12	
	Name of Woreda	:	Hitosa	OW- 01	
	Name of Zone	:	Arsi	OZ- 01	
		Profile items		Profile	!
01	Population		I OW/DD	2,000 2,256	4.446
	Town Woreda	male / female / total male / female / total	by OWRB by Census 2007	2,090 2,356 62,445 61,734 1	4,446 24,179
	percentage of Town in Wo		by Census 2007	02,443 01,734 1	3.6%
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	527151 89046	2,370
	Town Status			Town administration	
04	Water Source 04-01 Water source		T N-	Spring*1no.	
	04-01 Water source 04-02 Well spec.		Type, No. Depth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw		Pump, Gravity	Gravity	
	04-04 Pump Spec.		Type, Yield	nil.	
	04-05 Power source for motorize		Type, Kva	nil.	
	04-06 Durartion of water draw (C	Operation hours)	daily hours, time	24hrs.	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	good	
	04-08 Other technical specimen			**************************************	***************************************
05	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1994	
	05-02 Financial of implementation		Donor's name	Water Aid	
	05-03 Name of implementation (05-04 Intake Type	Project name)		Hitosa water project	
	05-05 Intake No.			Spring 1	
	05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	nil.	
	05-07 Power to convey		Pressure, Gravity	Gravity	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Type	GR	
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	1no. 25m3	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booste	er numn Stn ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	er partip Bar. Reservoir)	Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	See below memo	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water po		RC, Masonry, Pipeetc	Mansonry	
	05-18 Number of water point (Pu 05-19 Number of faucet at a water		no.	4	
	05-20 Average of daily water cor			2.0m3/day	
	05-21 Number of House Connect		(11)	37	
	05-22 Average of daily water consu	mption of House Connection((HC) m3/day	0.5m3/day	
	05-23 Number of Business Coned			nil.	
	05-24 Type of Business Connecti		School, Gov. office, Hospitaletc		
	05-25 Average of daily water consum	nption of Business Connection	(BC) m3/day	nil.	
	05-26 Other technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name			Town water supply servise	
	06-02 Type of organization		Regional, Zone, Enterpriceetc	Town	!
	06-03 Number of thechnical staff			1	
	06-04 Principal works of technical			Plumbing	
	06-05 Number of the financial sta 06-06 Principal works of financia			Water sale, Water meter read, B	sill
	06-07 Categories of water tariff		W.Point, House Connectionetc	· · · · · · · · · · · · · · · · · · ·	
	06-08 Water tariff rate		,		
	Water point (Public faucet)	Birr/L, 20L	0.1 birr/20L	
	House connection		Birr/m3	See below memo	
	Business connection		Birr/m3	nil.	
	06-09 Average monthly income b 06-10 Procurement of spare parts		Birr/month Γown, Zonal Cap. Reg. Capetc.	4,100birr/month Addis Ababa	
	06-10 Procurement of spare parts	at I	Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious i	repair by Regi	onal office, Private companyetc		
	06-13 Principal serious repair wit			Spring source was replaced.	
	06-14 Fund for above 6-09, 6-10	by	Organization, Gov., Donorsetc	Enterprise	
	06-15 Other technical specimen				
l					

O-12 Boru Jawi

07	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorta	ge	Ì
	Water supply facility Decrepi	t, leakage, design failure …etc	Design failu	re (Reservoiretc.)	
	07-02 Finalcial				
	Management		Not grasped		!
	Rate of water tarrif collection		Not grasped		!
	Personnel expenses		Not grasped		!
	Shourtage of budget to execute operation & maintenace		Not grasped		!
	07-03 Other incidential, Special specimen				
		om other towns, villagesetc		n other villages	ļ
		ncrease factory, Tradingetc.			
	Human conflict	Ethnic, Administrativeetc	nil.		
	07-04 Other specimen				ļ
08	Geographical condition (Slope on mountaion, bottom	of valley, Top of ridgeetc.)			-
00	Town is on the slope of mountain and flat area.	or variey, 10p or riageetc.,			
09	Necessary Institution (Facility, Material)				
0)	Refer to Chapter 4 "Table 4.7"				-
	refer to enapter + Table +.7				+
					·
10	Current Water Coverage (%) (by water consumption at faucets)			37%	1
	(2m3*7PF+0.5m3*37HC+0m3*0BC)=32.5m3/day 32.5m3/20		sons / 4,446 r		-
	Current Water Coverage (%) (by data of water source product))			58%	1
	(0.6L.sec.*3600sec.*24hrs)=51840L/day 51840/20Lcd=2592 p		46population=		1
11	Water Potential (A / B / C / D / E)			В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Su	b Grade/D=Only Dry Season/E=Not	Approached	B / A	
	A=Road Width > 6m /B= > 3				
	Access road is Asphalt & Base course 20km from Asela. (=16+			T	
13	Manpower Capability of Water Supply Management by Water C	Office point)		12	<u> </u>
					ļ
				I	
14	Dgree of urgency (A / B / C / D / E)				4
	Refer to Chapter 5 & 7				ļ
					-
13	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis n	ot required more advanced tec	hnology. The	small town is on the	
	generally flat terrains, construction work is not difficult.				
16	Other Donors, NGO's				
	Water Aid				
17	Main Ethnic Group		Amhara, Oro	omo	-
1.0	YY 14 12				
18	Health conditions		II141- C4-	Directo dinia Dave et a	
	-1 Medical facilities in Town			r, Private clinic, Drug store	(
	-2 Nearest other facilities from Town Main periods of water born diseases	km	23 Turboid	~~~~~	
	-3 Main patients of water born diseases	persons / year	Typhoid	15	
19	Main economic activities		Trade, Farmi	ina	1
1)			-1440, 141111	6	-
20	Particular comments :				1
	Resident buy water from water saler who caming from Gonde T	own (6km from Boni Jawi).			1
	The existing water source (spring) is not staible by seasonal wat	~~~~~	supply.		
21	Remarks:	Mr. Tassew Zeleke Plan & progra	amme head of to	own Adm. Mob. 0913449188	
		Mr. Musa Geleta Boru Jwwi			
		Mr. Husen Mohamed Engine			1
		Mr. Zenebe Abetew Water sy	ystem technic	ian, Mob. 0912115094	
Men	o (Town sketchetc.):				
	07.17.DL II. II. III. III. II. III. II. III. I				
	05-15 Distribution Type (Spring No.1)				
	PVC 4"=350m PVC 1"=1,550m	T-4-11 2.050			ļ
	PVC 2"=1,550m PVC 3/4"=100m	Total L=3,050m			
	06 05 Water toriff				7
	06-05 Water tariff				
	0~5m3 = 3.25birr/m3				-
	6~10m3 = 3.50birr/m3				

O-12 Boru Jawi



O-20 Abosa

Nie aug af aug 11 d	A.1	11 /30
Name of small town :	Abosa	O- 20
Name of Woreda :	∖dami Tulu & Jido K	
Name of Zone :	East Shewa	a OZ- 03
Profile ite	ms	Profile
Population		
Town male / femal		1,786 1,792 3,578
Woreda male / femal	e / total by Census 2007	71,883 70,978 142,861
percentage of Town in Woreda		2.5%
Town Coordination UTM (Adine	dan) Easting / Northig / Alt.	469693 886574 1,677
Town Status Water Source		Town administration
04-01 Water source	Type, No.	Well * 1no.
04-01 Water source 04-02 Well spec.	Depth., Casing Dia., S.W.L, Yield	
04-03 Method of water draw	Pump, Gravity	Pump
04-04 Pump Spec.	Type, Yield	Motorized pump
04-05 Power source for motorized pump	Type, Kva	Commercial Elec. Line
04-06 Durartion of water draw (Operation hours		06:00~, 10:45~, 14:00~, 18:00~ 45min.ea Total 3hrs
04-07 Water quality	Iron, Fluorideetc.	Fluoride ?
04-08 Other technical specimen		
Existing Water Supply Facilities		
05-01 Established year	(Gregorian calendar)	1979
05-02 Financial of implementation	Donor's name	OWRB
05-03 Name of implementation (Project name)		Abosa water project
05-04 Intake Type 05-05 Intake No.		Well Ino.
05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reserv	voir) Pipe material, length	GIP. 3", 200m
05-00 Conveyance Type (water source ~ Reserv	Pressure, Gravity	Pressure
05-08 Water treatment	Disinfection, Ironetc.	nil.
05-09 Water treatment capacity	m3/day	nil.
05-10 Water reserver type	Type	ER
05-11 Water reserver No.	no.	2nos.
05-12 Water reserver Capacity	m3	6m3, 10m3
05-13 Transmission Type (Booster pump Stn. ~	Reservoir) Pipe material, length	nil.
05-14 Power to transmit	Pressure, Gravity	nil.
05-15 Distribution Type	Pipe material, length	GIP, 2", 400m, PVC 2", 800m
05-16 Power to distribute	Pressure, Gravity	Gravity
05-17 Structure Type of water point (Public Fau		Mansonry
05-18 Number of water point (Public Faucet, PF		4
05-19 Number of faucet at a water point (Public		2FC*3PF, 6FC*1PF
05-20 Average of daily water consumption at a v	water point (PF) m3/day	4.0m3/day
05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House	Connection(HC) m3/day	0.317m3/day
05-22 Average of daily water consumption of House 05-23 Number of Business Conection (BC)	Connection(TC) III3/day	2
05-24 Type of Business Connection (BC)	Factory, School, Gov. office, Hospitaletc.	School, Health center
05-25 Average of daily water consumption of Business		0.317m3/day
05-26 Other technical specimen		
T. C.		
Operation and Maintenace		
06-01 Organization's name		Water committee
06-02 Type of organization	Regional, Zone, Enterpriceetc	Community based organization
06-03 Number of thechnical staff		1
06-04 Principal works of technical staff		Pump operation, Plumbing, Water meter read
06-05 Number of the financial staff)
06-06 Principal works of financial staff	W De:t H C	Water sale, Bill
06-07 Categories of water tariff 06-08 Water tariff rate	W.Point, House Connectionetc.	W. Point, House connection
Water point (Public faucet)	Birr/L, 20L	0.20birr/20L
House connection	Birr/m3	7.00birr/m3
Business connection	Birr/m3	ditto
06-09 Average monthly income by water tariff	Birr/month	4,500birr/month
06-10 Procurement of spare parts 06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc	i iperitungs
06-10 Procurement of spare parts	Oil filter, Fuel filter, Pipesetc by Regional office, Private companyetc	
06-10 Procurement of spare parts 06-11 Principal spare parts		
06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious repair		Woreda Pumpmotor burned

O-20 Abosa

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Water shortage,		!
	Water supply facility Decrepit, leakage, design failure	etc.Pipe network is	limited.	
	07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection	nil.		
	Personnel expenses Shourtage of budget to execute operation & maintenace	Shortage budge	t for OPM	
	07-03 Other incidential, Special specimen	Shortage budge	t 101 O&IVI	
	Increase in population to consume water coming from other towns, villages	atc nil		
	Change in industry increase factory, Tradinge			
	Human conflict Ethnic, Administrative			
	07-04 Other specimen			
	*			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeet	c.)		
	Town is on the flat area. (bordering Lake Zeway in the east at about 200m.)			
09				
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)	1	32%	+
10	(4m3*4PF+0.317m3*19HC+0.317*2BC)=22.7m3/day 22.7m3/20Lpcd.= 1,135 persons	1 135nersons / 3 57		
1	Current Water Coverage (%) (by data of water source product))	.,, (since 1 2,2)	189%	
1	((4.7L)*3600min*8hrs)=135360L 135360L/20L=6768persons 6768persons/3578population	ion=185%	107/0	
11			С	1
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=P	Not Approached	A / A	
	A=Road Width > 6 m $/$ B= $> 3 \sim 6$ m $/$ C= $1 \sim 3$ m $/$ D= < 1 m			
	Access is asphalt road 10km from Zway * Refer to Chapter 5 "Table 5-7: Categories of acc	essibility"		
13	Manpower Capability of Water Supply Management by Water Office point)		10	
L.				
14	Dgree of urgency (A / B / C / D / E)			-
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			+
13				
	The facility can be designed in an Ethiopian standard, however, it may be required high tech	mology water treat	ment facility to remov	e
	Fluoride. The small town is on the generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
10	Other Dollors, 1400's			
10	Outer Dollors, 1700 s			
	Main Ethnic Group	Oromo		
17	Main Ethnic Group	Oromo		
17	Main Ethnic Group Health conditions			
17	Main Ethnic Group Health conditions -1 Medical facilities in Town	Health Center,	Drug store	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center, 1		
17	Main Ethnic Group Health conditions -1 Medical facilities in Town	Health Center, 1 100 Mararia	3,500	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center, 100 Mararia Typhoid		
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center, 1 100 Mararia	3,500 505	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center, 100 Mararia Typhoid Dysentery	3,500 505 260	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health Center, 100 Mararia Typhoid Dysentery Cholera	3,500 505 260 50	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health Center, 100 Mararia Typhoid Dysentery Cholera Diarrhea	3,500 505 260 50 25	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others	3,500 505 260 50 25	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others	3,500 505 260 50 25	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area.	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. To	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks:	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks:	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks:	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20 21	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: In accordance with the result of water quality survey, this area has higher effects Fluoride. Twater quality around this area. Remarks: Mr. Bekele Chaka Water Comments Germeda Operator	Health Center, 1 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming Therefore, it is diffi	3,500 505 260 50 25 2,000 cult to develop good	

O-20 Abosa



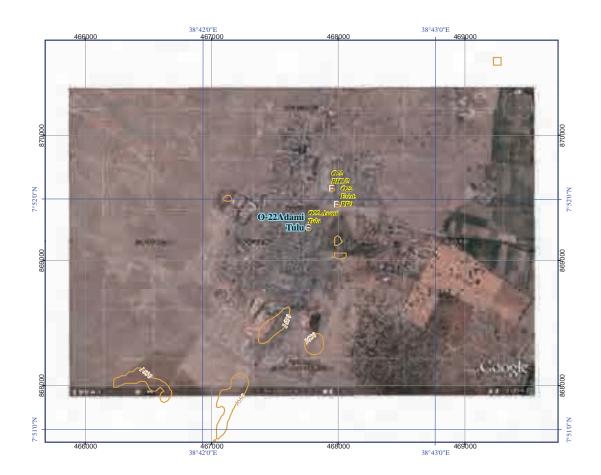
O-22 Adami Tulu

	Oromia Region				12 /30)	
	Name of small town	:	Adami 1	Гulu	O- 22		
	Name of Woreda		\dami Tulu & Jid		OW- 16		
	Name of Zone		East Sh		OZ- 03		
		Profile items	=401 011		Profile	,	†
01	Population					•	•
	Town	male / female / total	by OWRB	4,006	4,160	8,166	
	Woreda	male / female / total	by Census 2007	71,883	70,978	142,861	
	percentage of Town in Wo					5.7%	
_	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	467669	869137	1,665	
_	Town Status Water Source			Municipality			
04	04-01 Water source		Type, No.	Well*2nos.			
	04-02 Well spec.	Depth.	, Casing Dia., S.W.L, Yield	See belo memo			
	04-03 Method of water draw		Pump, Gravity	Pump			
	04-04 Pump Spec.		Type, Yield	Motorized			
	04-05 Power source for motorize		Type, Kva	Commercial Elec.			
	04-06 Durartion of water draw (Operation hours)	daily hours, time	Not grasped	0.01 / 11/11	N 225	
	04-07 Water quality		Iron, Fluorideetc.	high Floride Well No.1	8.01mg/1, Well	No.2 3.5mg/	I
	04-08 Other technical specimen						
05	Existing Water Supply Facilities						
33	05-01 Established year		(Gregorian calendar)	2008			
	05-02 Financial of implementation	on	Donor's name	OWRB &LVIA			
	05-03 Name of implementation	(Project name)		Adami Tulu water pro	ject		
	05-04 Intake Type			Well			
	05-05 Intake No.			2			
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 3", 1,252m, 2", 5	500m (Total 1,75	52m)	
	05-07 Power to convey		Pressure, Gravity	Pressure			
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc m3/day	nil.		***************************************	
	05-10 Water reserver type		Туре	GR			
	05-10 Water reserver No.		no.	lno.			
	05-12 Water reserver Capacity		m3	50m3			
	05-13 Transmission Type (Boos	ter pump Stn. ~ Reservo	ir) Pipe material, length	nil.			
	05-14 Power to transmit		Pressure, Gravity	nil.			
	05-15 Distribution Type		Pipe material, length	See below memo			
	05-16 Power to distribute		Pressure, Gravity	Gravity			
	05-17 Structure Type of water pe						
	05-18 Number of water point (Po 05-19 Number of faucet at a water		no. PF no.	11 (1PF is not functio	n)	***************************************	
	05-20 Average of daily water co			8.0m3/day			
	05-21 Number of House Connec		int ms/day	701			
	05-22 Average of daily water consump		m3/day	0.26m3/day			
	05-23 Number of Business Cone		•	13			
	05-24 Type of Business Connect	tion (BEactory, School,	Gov. office, Hospitaletc.	Hotel, Chrch, others			
	05-25 Average of daily water consumpti	on of Business Connection (BC	m3/day	12m3/day			
	05-26 Other technical specimen						
06	Oti						
00	Operation and Maintenace 06-01 Organization's name			Town water office		***************************************	
	06-02 Type of organization	Regio	onal, Zone, Enterpriceetc				
	06-03 Number of thechnical staf		mai, Zone, Enterpriceetc	4			
	06-04 Principal works of technic			Pump operation, Plum	bing		
	06-05 Number of the financial st	aff		4			
	06-06 Principal works of financi			Water meter read, Bill			
	06-07 Categories of water tariff	W.Poi	nt, House Connectionetc.	W. Point, H. connection	on, B. Connection	1	
	06-08 Water tariff rate		D. 4 204	0.51: /201			
	Water point (Public fauce	τ)	Birr/L, 20L	0.5birr/20L See below memo			
	House connection Business connection		Birr/m3 Birr/m3	ditto			
	06-09 Average monthly income	by water tariff	Birr/month	29.400birr/month			
	06-10 Procurement of spare part		Zonal Cap. Reg. Capetc.	. /			
	06-11 Principal spare parts		lter, Fuel filter, Pipesetc				
	06-12 Method in case of serious		fice, Private companyetc				
	06-13 Principal serious repair wi			Pump failure			
	06-14 Fund for above 6-09, 6-10	by Organi	zation, Gov., Donorsetc.	Water supply service			
	06-15 Other technical specimen						
				<u> </u>			

O-22 Adami Tulu

07	Problem of actual town water supply			
	07-01 Technical			
	Water source	Quantity, Qualityetc	Water shortage	
		leakage, design failureetc		
	07-02 Finalcial	leakage, design famureet	Leakage from pipe files	
	Management Management		Not grasped	
	Rate of water tarrif collection		Not grasped	
	Personnel expenses		Not grasped	
	Shourtage of budget to execute operation & main	ntanaga	Shortage budget for O&M	
	07-03 Other incidential, Special specimen	ntenace	Shortage budget for Occivi	
	Increase in population to consume waterning from		Coming from other ville core	
		Ethnic, Administrativeetc	Increase Flower & Wine farm	
		Ethnic, Administrativeetc	C.IIII.	
	07-04 Other specimen			
08	Cooperation on dition (Clare on mountain bottom)	of wallow Top of sides at a)	
00	Geographical condition (Slope on mountaion, bottom of Town is on the flat area.	or variey, Top or ridgeetc.	.)	
	Town is on the flat area.			
00	NI I CO C CE TO MODELLO			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	G (W) G	· C · · · ·	2500:	
10	Current Water Coverage (%) (by water consumption a		258%	. 2
	(8.3m3*10PF+0.26m3*701HC+12.0m3*13BC)=421.3			10n = 21
	Current Water Coverage (%) (by data of water source	product))	106%	
	((3.5L+2.5L)*3600min*8hrs)=172800L 172800L/20	L=8640persons 8640person		
11	Water Potential (A / B / C / D / E)		C	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course			
		/B= >3~6m / C= 1~3m / D=		
	Access road is asphalt road 8km from Zway. * Refer to			
13	Manpower Capability of Water Supply Management by	y Water Office (point)	14	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard	havvavan it may be required	high tachnalagy water treatment facility to ren	
	The facility can be designed in an Ethiopian standard, l			liove
	Fluoride. The small town is on the generally flat terrain	is, construction work is not c	mmcuit.	
16	Other Donors, NGO's			
	World bank, LVIA			
17	Main Ethnic Group		Oromo, Gurage	
18	Health conditions			
18	Health conditions		Drug store	
18	Health conditions -1 Medical facilities in Town	km	Drug store	
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km persons / year	7	
18	Health conditions -1 Medical facilities in Town	km persons / year	7 Mararia 1,000	
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		7 Mararia 1,000 Dysentery 100	
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		7 Mararia 1,000 Dysentery 100 Typhoid 80	
	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases		7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20	
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		7 Mararia 1,000 Dysentery 100 Typhoid 80	
19	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities		7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20	
19	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:		7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20	
19	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities		7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20	
19	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:		7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20	
19 20	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors.		7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20	
19 20	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	persons / year	7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade	151
19 20	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors.	persons / year Mr. Wondimu Jote May	7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade	
19 20	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors.	persons / year Mr. Wondimu Jote May Mr. Gebissa Haile Wate	7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks:	persons / year Mr. Wondimu Jote May Mr. Gebissa Haile Wate	7 Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade	
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19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 10 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on ????? GL-86m / Casing dia	Mr. Wondimu Jote Ma Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 eec. / 7.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: no (Town sketchetc.):	Mr. Wondimu Jote Ma Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 eec. / 7.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 10 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on ???? GL-86m / Casing dia Well No.2; Estbsh on ???? GL-72m / Casing dia	Mr. Wondimu Jote Ma Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 eec. / 7.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 10 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on ???? GL-86m / Casing dia Well No.2; Estbsh on ???? GL-72m / Casing dia 05-15 Distribution Type (Spring No.1)	Mr. Wondimu Jote May Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 eec. / 7.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 0 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on ???? GL-86m / Casing dia Well No.2; Estbsh on ???? GL-72m / Casing dia 05-15 Distribution Type (Spring No.1) GIP 2*1/2"=100m GIP 1*1/2"=974m	Mr. Wondimu Jote May Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi 6" / SWL GL-14m / 3.5L/se PE 1"=350m	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 ec. / 7.5kw ec. / 5.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 10 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on ???? GL-86m / Casing dia Well No.2; Estbsh on ???? GL-72m / Casing dia 05-15 Distribution Type (Spring No.1)	Mr. Wondimu Jote May Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi 6" / SWL GL-14m / 3.5L/se PE 1"=350m	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 eec. / 7.5kw	
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19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 0 (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on ???? GL-86m / Casing dia Well No.2; Estbsh on ???? GL-72m / Casing dia 05-15 Distribution Type (Spring No.1) GIP 2*1/2"=100m GIP 1*1/2"=974m	Mr. Wondimu Jote May Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi 6" / SWL GL-14m / 3.5L/se PE 1"=350m	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 ec. / 7.5kw ec. / 5.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 11 (Town sketchetc.): 12 (Town sketchetc.): 13 (Town sketchetc.): 14 (Town sketchetc.): 15 (Town sketchetc.): 16 (Town sketchetc.): 17 (Town sketchetc.): 18 (Town sketchetc.): 19 (Town sketchetc.): 10 (Town sketchetc.): 11 (Town sketchetc.): 12 (Town sketchetc.): 13 (Town sketchetc.): 14 (Town sketchetc.): 16 (Town sketchetc.): 17 (Town sketchetc.): 18 (Town sketchetc.): 19 (Town sketchetc.): 10 (Town sketchetc.): 11 (Town sketchetc.): 12 (Town sketchetc.): 12 (Town sketchetc.): 13 (Town sketchetc.): 14 (Town sketchetc.): 16 (Town sketchetc.): 17 (Town sketchetc.): 17 (Town sketchetc.): 18 (Town sketchetc.): 19 (Town sketchetc.): 10 (Town sketchetc.): 1	Mr. Wondimu Jote May Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi 6" / SWL GL-14m / 3.5L/se PE 1"=350m	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 ec. / 7.5kw ec. / 5.5kw	
19 20 21	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New implementation will be done by other donors. Remarks: 104-02 Well spec. Well No.1; Estbsh on ????? GL-86m / Casing dia Well No.2; Estbsh on ????? GL-72m / Casing dia Well No.2; Estbsh on ????? GL-72m / Casing dia O5-15 Distribution Type (Spring No.1) GIP 2*1/2"=100m GIP 1*1/2"=974m GIP 2"=1,600m PVC 1*1/4"=1,300m	Mr. Wondimu Jote May Mr. Gebissa Haile Wate Mr. Challa Dechassa Fi . 6" / SWL GL-14m / 3.5L/se . 6" / SWL GL-??m / 2.5L/se PE 1"=350m	Mararia 1,000 Dysentery 100 Typhoid 80 Diarrhea 20 Farming, Trade yor of the town administration Mob. 09122604 er Committee chairman Mob. 0913223927122 inance head of water committee 0910831709 ec. / 7.5kw ec. / 5.5kw	

O-22 Adami Tulu



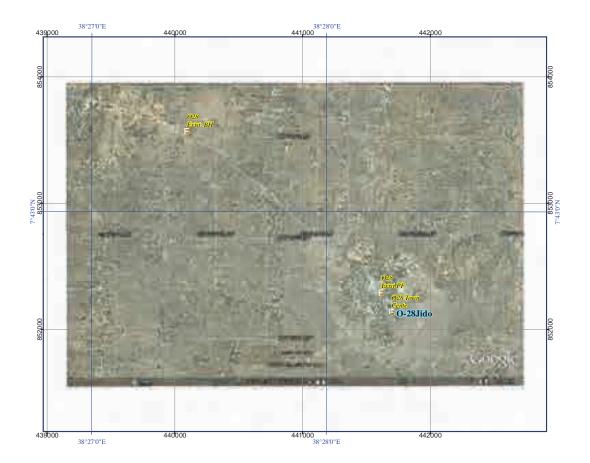
O-28 Jido

	Oromia Region			13 /30	0
	Name of small town :	Jido		O- 28	3
	Name of Woreda :	∖dami Tulu & Jido K	ombolch	OW- 16	5
	Name of Zone :	East Shewa	1	OZ- 03	3
	Profile items			Profile	!
01	Population Town male / female / total	I OWDD	1 207	1 252	2,659
	Woreda male / female / total	by OWRB by Census 2007	1,307 71,883	1,352 70,978	142,861
	percentage of Town in Woreda	by Census 2007	71,003	70,270	1.9%
	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	441606	852012	1,642
	Town Status		Town administr	ation	
04	Water Source 04-01 Water source	Type, No.	Well * 1no.		
		pth., Casing Dia., S.W.L, Yield		GL-??m, 5.5L	/sec.
	04-03 Method of water draw	Pump, Gravity	Pump		
	04-04 Pump Spec.	Type, Yield	Motorized pump		
	04-05 Power source for motorized pump	Type, Kva	Commercial Ele		Generator
	04-06 Durartion of water draw (Operation hours) 04-07 Water quality	daily hours, time Iron, Fluorideetc.	09:00-02:00 (1' good	/hrs./day)	
	04-08 Other technical specimen	non, Fluorideetc.	good		
	o i do duloi tecimical specimen			***************************************	***************************************
05	Existing Water Supply Facilities				
	05-01 Established year	(Gregorian calendar)	2005	-	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	Ethiopia Delopi Leliso denbe wa		vicet
	05-03 Name of implementation (Project name) 05-04 Intake Type		Well	iter supply pro	oject
	05-04 Intake No.		lno.		
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2", 5m		
	05-07 Power to convey	Pressure, Gravity	Pressure		
	05-08 Water treatment	Disinfection, Ironetc.	nil.	***************************************	
	05-09 Water treatment capacity	m3/day	nil. ER		
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	2nos.		
	05-12 Water reserver Capacity	m3	10m3*2nos.		
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit	Pressure, Gravity	nil.		
	05-15 Distribution Type	Pipe material, length	GIP, 3", 2,312m	ı, 2" 20m	
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity Mansonry		
	05-18 Number of water point (Public Faucet, PF)	no.	4		
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6		
	05-20 Average of daily water consumption at a water point (PF) m3/day	16m3/day		
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC	2/1	8		
	05-22 Average of daily water consumption of House Connection(HC)) m3/day	1.56m3/day		
		ool, Gov. office, Hospitaletc.	Mosque, School	l, Restrant	
	05-25 Average of daily water consumption of Business Connection (BC	m3/day	0.8m3/day	,	
	05-26 Other technical specimen				
0.0	O. C. IM:				
00	Operation and Maintenace 06-01 Organization's name		Water committee	 1ρ	
		egional, Zone, Enterpriceetc.			n
	06-03 Number of thechnical staff	<u> </u>	2		
	06-04 Principal works of technical staff		Pump operation	, Plumbing	
	06-05 Number of the financial staff		7	1 337	D'II
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.	Point, House Connectionetc.	Water meter rea W. Point, House		RIII
	06-08 Water tariff rate	1 OHR, 1100SC COMICCHOILCIC.	1 OIIII, 110US	Connection	
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L		
	House connection	Birr/m3	see below mem	0	
	Business connection	Birr/m3	ditto		
	06-09 Average monthly income by water tariff	Birr/month	8,000birr/month		
		rn, Zonal Cap. Reg. Capetc. Dil filter, Fuel filter, Pipesetc		vava	
	06-12 Method in case of serious repair by Regiona	l office, Private companyetc	Woreda		
	06-13 Principal serious repair with 5-10 years	/	Pumpmotor bur	ned	
	06-14 Fund for above 6-09, 6-10 by Org	ganization, Gov., Donorsetc.	Water committe	e	
1	06-15 Other technical specimen				
1					

O-28 Jido

07	Problem of actual town water supply		
07	07-01 Technical		
	Water source Quantity, Qualityetc.	Water shortage	ļ
	Water supply facility Decrepit, leakage, design failureetc	9	!
	07-02 Finalcial		T i
	Management	Not grasped	!
	Rate of water tarrif collection	Not grasped	!
	Personnel expenses	Not grasped	!
	Shourtage of budget to execute operation & maintenace	Not grasped	!
	07-03 Other incidential, Special specimen		†
	Increase in population to consume water coming from other towns, villagesetc	Not grasped	!
	Change in industry increase factory, Tradingetc.		!
	Human conflict Ethnic, Administrativeetc		!
	07-04 Other specimen		*
	•		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))	
	Town is on the flat area.		
09	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
			ļ
_	- W G O.)	T .	ļ.,
10	Current Water Coverage (%)	148%	!
	(16m3*4PF+1.56m3*8HC+0.8*3BC)=78.9m3/day 78.9/20Lpcd.= 3,945persons 3,945person		-
	Current Water Coverage (%) (by data of water source product))	298%	
11	((5.5L)*3600min*8hrs)=158400L 158400L/20L=7920persons 7920persons/2659population		<u> </u>
11	Water Potential (A/B/C/D/E)	В	
10	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached D / D	-
12	Accessibility $(A/B/C/D/E)$ A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not A=Road Width > $6m/B= >3 \sim 6m/C=1 \sim 3m/D= < 1m$	Approached B / B	
	A=Road Width > 6th /B= >3~6th /C= 1~3th / D= <1th Access is Sub grade road 46km from Zway. * Refer to Chapter 5 "Table 5-7: Categories of ac	cessibility"	ļ
13	Manpower Capability of Water Supply Management by Water Office point)	13	
13	Manipower Capability of Water Supply Management by Water Office point)	13	1
			ł
14	Dgree of urgency (A / B / C / D / E)		
1 '	Refer to Chapter 5 & 7		
			ł
15	New Water Supply Plan		
16	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's		
i			ļ
17	Main Ethnic Group	Oromo, Silte	
	•		
18	Health conditions		
	-1 Medical facilities in Town	Health Center, Private clinic, Drug stor	e
	-2 Nearest other facilities from Town km	86	1
	-3 Main patients of water born diseases persons / year	Mararia 5,400	
		Typhoid 500	
		Dysentery 480	
		Cholera 15	1
19		others 1,500	
	Main economic activities	Farming, Trade	
20	Particular comments :		
20			
20	Particular comments :		
	Particular comments: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year		
20	Particular comments : Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks :		
	Particular comments: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year		
	Particular comments : Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks :		
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21	Particular comments: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) 100 (Town sketchetc.): 106-08 Water tariff rate 10~5m3 = 3.00birr/m3		
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O-28 Jido



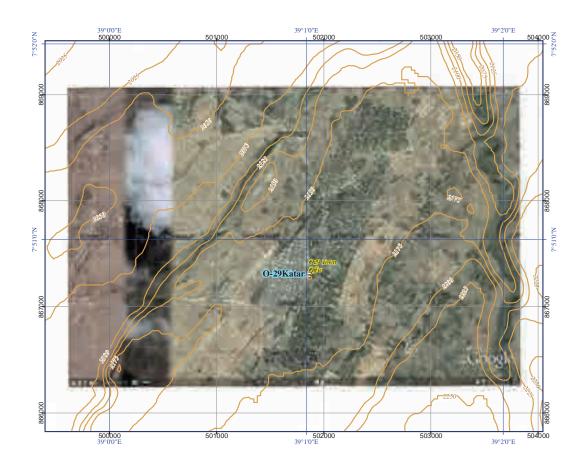
O-29 Katar Genet

	Oromia Region			14 /3	30	
	Name of small town :	Katar gene	t	0- 2	9	
	Name of Woreda :	Tiyo		OW- 0	3	
	Name of Zone :	Arsi		OZ- 0	1	
	Profile items			Profile		!
01	Population					
	Town male / female / total	by OWRB	1,943	2,010	3,953	
	Woreda male / female / total	by Census 2007	43,443	43,284	86,727	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	501766	867164	4.6% 2,195	
	Town Status	Easting / Horting / Hit.	Town administr		2,173	
04	Water Source					
	04-01 Water source	Type, No.	nil. (Stream W	ater)		
	<u> </u>	Depth., Casing Dia., S.W.L, Yield				
	04-03 Method of water draw 04-04 Pump Spec.	Pump, Gravity Type, Yield	nil. nil.			
	04-05 Power source for motorized pump	Type, Kva	nil.			
	04-06 Durartion of water draw (Operation hours)	daily hours, time	nil.			
	04-07 Water quality	Iron, Fluorideetc.	nil.			
	04-08 Other technical specimen					
		TO THE RESIDENCE OF THE PARTY O				
05	Existing Water Supply Facilities	(0 : 1 1)	:1			
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar) Donor's name	nil.			
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	nil.			
	05-04 Intake Type		nil.			
	05-05 Intake No.		nil.		***************************************	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.			
	05-07 Power to convey	Pressure, Gravity	nil.			
	05-08 Water treatment	Disinfection, Ironetc.	nil.		***************************************	
	05-09 Water treatment capacity	m3/day	nil.			
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	nil. nil.			
	05-11 Water reserver No.	m3	nil.			
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.			
	05-14 Power to transmit	Pressure, Gravity	nil.			
	05-15 Distribution Type	Pipe material, length	nil.			
	05-16 Power to distribute	Pressure, Gravity	nil.			
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.				
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF)	no.	nil.			
	05-20 Average of daily water consumption at a water point		nil.			
	05-21 Number of House Connection (HC)	(11) 1113/444	nil.			
	05-22 Average of daily water consumption of House Connection(HC) m3/day	nil.			
	05-23 Number of Business Conection (BC)		nil.			
		chool, Gov. office, Hospitaletc				
	05-25 Average of daily water consumption of Business Connection	(BC) m3/day	nil.			
	05-26 Other technical specimen					
06	Operation and Maintenace					
	06-01 Organization's name		nil.			
	06-02 Type of organization	Regional, Zone, Enterpriceetc				
	06-03 Number of thechnical staff		nil.			
	06-04 Principal works of technical staff		nil.			
	06-05 Number of the financial staff		nil. nil.			
	06-06 Principal works of financial staff 06-07 Categories of water tariff	W.Point, House Connectionetc				
	06-08 Water tariff rate	11.1 OHR, 110use COMMECHONElC	. 1111.			
	Water point (Public faucet)	Birr/L, 20L	nil.			
	House connection	Birr/m3	nil.			
	Business connection	Birr/m3	nil.			
	06-09 Average monthly income by water tariff	Birr/month	nil.			
	06-10 Procurement of spare parts at T 06-11 Principal spare parts	Cown, Zonal Cap. Reg. Capetc.				
	<u> </u>	Oil filter, Fuel filter, Pipesetc				
	06-13 Principal serious repair with 5-10 years	mar office, i fivale companyele	nil.			
11		Organization, Gov., Donorsetc				
	06-15 Other technical specimen					

O-29 Katar Genet

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O-29 Katar Genet



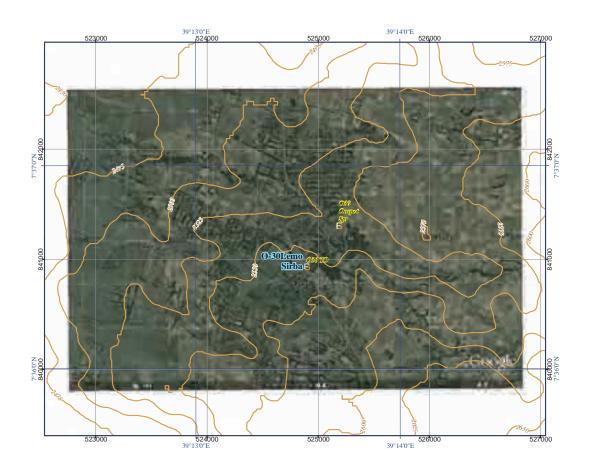
O-30 Lemo Sirba

	Oromia Region		15 /30	T
	Name of small town :	Lemo Sirba		
	Name of Woreda :	Limana Bilbi		
	Name of Zone :	Arsi	OZ- 01	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by OWRB	2,774 2,816 5,59	
	Woreda male / female / total	by Census 2007	not listed not listed not liste	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	#VALUE! 524802 84006 2,55-	
	Town Status	Easting / Norting / Ait.	Town administration	4
	Water Source			
	04-01 Water source	Type, No.	Spring*2nos.	
		pth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	Gravity, On-spot	_
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	nil.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	24hours. (10hrs./day as actual use)	
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen			
05	Existing Water Supply Facilities		1000	<u> </u>
	05-01 Established year	(Gregorian calendar)	1998 Red cross	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	Lemo sirba water project	
	05-04 Intake Type		Spring	
	05-05 Intake No.		2	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.	
	05-07 Power to convey	Pressure, Gravity	nil.	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	_
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	nil.	
	05-11 Water reserver No.	m3	nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	-
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	nil.	
	05-16 Power to distribute	Pressure, Gravity	nil.	
	05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	nil. 1 place by On-Spot	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	1 place by Oil-Spot	-
	05-20 Average of daily water consumption at a water point (PF		Not grasped	
	05-21 Number of House Connection (HC)	· · · · · · · · · · · · · · · · · · ·	nil.	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.	
	05-23 Number of Business Conection (BC)		nil.	
	05-24 Type of Business Connection (BC) Factory, Scho 05-25 Average of daily water consumption of Business Connection (BC	ol, Gov. office, Hospitaletc.		
	05-26 Other technical specimen) m3/day	nil.	
	00-20 Other technical specifich			
06	Operation and Maintenace			1
	06-01 Organization's name		Water Committee	
		egional, Zone, Enterpriceetc.		
	06-03 Number of thechnical staff		0	
	06-04 Principal works of technical staff 06-05 Number of the financial staff		nil.	
	06-06 Principal works of financial staff		nil.	
		Point, House Connectionetc.		-
	06-08 Water tariff rate	,		
	Water point (Public faucet)	Birr/L, 20L	Free	
	House connection	Birr/m3	nil.	
	Business connection	Birr/m3	nil.	
	06-09 Average monthly income by water tariff	Birr/month	nil.	
		n, Zonal Cap. Reg. Capetc. iil filter, Fuel filter, Pipesetc		-
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		nil.	
	06-14 Fund for above 6-09, 6-10 by Org	ganization, Gov., Donorsetc.		
	06-15 Other technical specimen		nil.	

O-30 Lemo Sirba

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	No response		
	Water supply facility Decrepit, leakage, design failureetc	No response		
	07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		ļ
	Personnel expenses	Not grasped		
	Shourtage of budget to execute operation & maintenace	Not grasped		ļ
	07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc	Not amagned		
	Increase in population to consume water coming from other towns, villagesetc Change in industry increase factory, Tradingetc			
	Human conflict Ethnic, Administrativeetc			-}
	07-04 Other specimen	No response		
	or of other specimen	1 to response		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
	Slope on mountain, hill			-
09	Necessary Institution (Facility, Material)			
	Water supply facility (pipe line supply)			
	Refer to Chapter 4 "Table 4.7"			ļ
4.0			221	-
10	Current Water Coverage (%) (by data of consumption at faucet)	500 1	32%	
	(0.5L.sec *3600sec *10hrs)*2=36000L/day 36000/20Lcd=1800persos 1800persons/5	ээороpulation		
	Current Water Coverage (%) (by water product at wells and/or springs) [0.5L.sec.*3600sec.*24hrs)*2=86400L/day 86400/20Lcd=4320persos 4320persons/5:	500nonulatio	77%	
11	(0.5L.sec.*3600sec.*24hrs)*2=86400L/day 86400/20Lcd=4320persos 4320persons/5: Water Potential (A / B / C / D / E)	- 20population	1= / /% B	\vdash
11	mater Foleman (A/B/C/D/E)		ъ	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B/B	1
	A=Road Width > 6 m $/$ B= $>3~6$ m $/$ C= $1~3$ m $/$ D= <1 m			
	Access road is Sub grade & Retour road 45km from Asela where is under construction.			
13	Manpower Capability of Water Supply Management by Water Office (point)		10	
14	Dgree of urgency (A/B/C/D/E)			
	Refer to the Chapter 6			
13	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec			ļ
		hnology. The	small town is on the hills.	
	construction works is required some ingenuities arround water sources.	hnology. The	small town is on the hills,	,
16	construction works is required some ingenuities arround water sources.	hnology. The	small town is on the hills,	,
16	construction works is required some ingenuities arround water sources. Other Donors, NGO's	hnology. The	small town is on the hills,	,
16	construction works is required some ingenuities arround water sources.	hnology. The	small town is on the hills,	
	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil.			,
	construction works is required some ingenuities arround water sources. Other Donors, NGO's	Oromo, Amh		,
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil.			
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group		nara	
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group Health conditions	Oromo, Amh	nara c, Drug store	
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo, Amb	nara c, Drug store	
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo, Amh Private clinic 46 Typhoid Dysentery	para c, Drug store 250 100	
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Oromo, Amb	para c, Drug store 250	
17	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo, Amh Private clinic 46 Typhoid Dysentery	para c, Drug store 250 100	
17 18	construction works is required some ingenuities arround water sources. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Oromo, Amb	para c, Drug store 250 100	
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O-30 Lemo Sirba



O-31 Milami

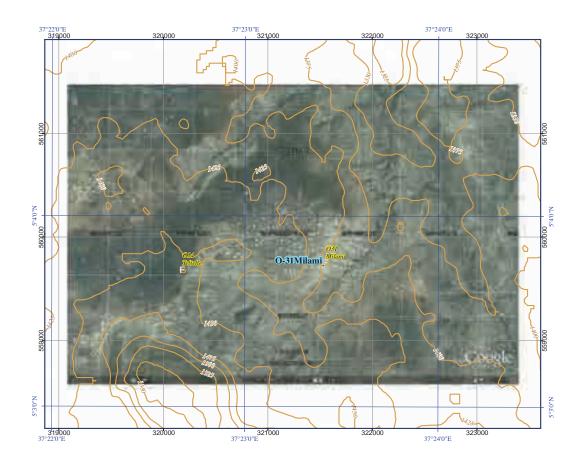
Oromia Region				16 /30	
Name of small town	1 :	Milami		O- 31	
Name of Woreda	:	Teltele		OW- 09)
Name of Zone	:	Borena		OZ- 02	2
	Profile items			Profile	
Population					
Town	male / female / total	by OWRB	2,220	2,290	4,510
Woreda	male / female / total	by Census 2007	35,854	33,845	69,699
percentage of Town in					6.5%
Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	321466	559600	1,401
Town Status			Municipality		
Water Source			Well * 1no.		
04-01 Water source 04-02 Well spec.		Type, No. Depth., Casing Dia., S.W.L, Yield		22m 4 9I /s/	
04-02 Well spec. 04-03 Method of water draw		Pump, Gravity	Pump	::III, 4.0L/St	
04-04 Pump Spec.		Type, Yield	Mono-pump and	d Motorized n	ıımn
04-05 Power source for moto	prized numn	Type, Kva	Commercial Ele		штр
04-06 Durartion of water dra		daily hours, time	06:00-6:20 (20)		
04-07 Water quality	w (operation notify)	Iron, Fluorideetc.	good		
04-08 Other technical specin	nen		8		

Existing Water Supply Facili	ities				
05-01 Established year		(Gregorian calendar)	1996		
05-02 Financial of implemen		Donor's name	OWRB		
05-03 Name of implementati	on (Project name)		Milami water pi	oject	
05-04 Intake Type			Well		
05-05 Intake No.			1no.		
05-06 Conveyance Type (Wa	ater source ~ Reservoir)	Pipe material, length	GIP, 2", 60m		
05-07 Power to convey		Pressure, Gravity	Pressure		
05-08 Water treatment		Disinfection, Ironetc.	nil.		
05-09 Water treatment capac	ity	m3/day	nil.		
05-10 Water reserver type		Type	GR, ER		
05-11 Water reserver No.		no.	GR*1no., ER*1		
05-12 Water reserver Capaci	ooster pump Stn. ~ Reservoir)	m3	GR*50m3, ER* GIP, 2*1/2", 1,2		
05-14 Power to transmit	ooster pump Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity	Pressure	200111	
05-14 Power to transmit 05-15 Distribution Type		Pipe material, length	See below mem	0	
05-16 Power to distribute		Pressure, Gravity	Gravity	0	
05-17 Structure Type of water	er point (Public Faucet PF)	RC, Masonry, Pipeetc			
05-18 Number of water poin		no.	5		
	water point (Public Faucet, PF)		4FC*4PF, 2FC*	1PF	
	r consumption at a water point		2.0m3/day		
05-21 Number of House Con		`	23		
05-22 Average of daily water c	onsumption of House Connection(HC) m3/day	0.7m3/day		
05-23 Number of Business C	Conection (BC)		1		
05-24 Type of Business Con-		chool, Gov. office, Hospitaletc	Health center		
	nsumption of Business Connection	(BC) m3/day	1.3m3/day		
05-26 Other technical specin	nen				
Operation and Maintenace					
06-01 Organization's name			Water committee		
06-02 Type of organization	. CC	Regional, Zone, Enterpriceetc	Community bas	ed organizatio	n
06-03 Number of thechnical			1		
06-04 Principal works of tech			Pump operation		
06-05 Number of the financi			Woton	J D:11 W-4	aala
06-06 Principal works of fina		W Point House Committee	Water meter rea		saie
06-07 Categories of water tar 06-08 Water tariff rate	1111	W.Point, House Connectionetc	. W. Point, House	connection	
Water point (Public fa	ucet)	Birr/L, 20L	0.35birr/20L		
House connection	ucci)	Birr/m3	15birr/m3		
Business connection		Birr/m3	ditto		
06-09 Average monthly inco	me by water tariff	Birr/month	Not grasped		
06-10 Procurement of spare		own, Zonal Cap. Reg. Capetc		Sheshemane	
06-11 Principal spare parts	pui al 1	Oil filter, Fuel filter, Pipesetc			
06-12 Method in case of serio	ous repair by Regio	onal office, Private companyetc			
06-13 Principal serious repai			Mono-pump tro	uble (Mechan	ical)
06-14 Fund for above 6-09, 6		Organization, Gov., Donorsetc			
100-14 Fulla for above 0-03.					

O-31 Milami

Rate of water tarrif collection Appropriate Personnel expenses low	
Water source Quantity, Qualityetc. Shortage wa Water supply facility Decrepit, leakage, design failureetc See below portage of property of the propert	
Water supply facility 07-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shourtage of budget to execute operation & maintenace Decrepit, leakage, design failureetc See below properties. Cash management Appropriate low Shourtage of budget to execute operation & maintenace Shortage budget to execute operation & maintenace	tor
07-02 Finalcial Cash manage Management Cash manage Rate of water tarrif collection Appropriate Personnel expenses low Shourtage of budget to execute operation & maintenace Shortage budget	
Management Cash management Rate of water tarrif collection Appropriate Personnel expenses low Shourtage of budget to execute operation & maintenace Shortage budget	articular comminents
Rate of water tarrif collection Appropriate Personnel expenses low Shourtage of budget to execute operation & maintenace Shortage budget.	ement (no recording)
Personnel expenses low Shourtage of budget to execute operation & maintenace Shortage budget to execute operation & maintenace	(
Shourtage of budget to execute operation & maintenace Shortage bud	
07-03 Other incidential, Special specimen	lget for O&M
Increase in population to consume water coming from other towns, villagesetc Coming from	n villagers (Students)
Change in industry increase factory, Tradingetc. nil.	
Human conflict Ethnic, Administrativeetc nil.	
07-04 Other specimen	
08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	
Town is on the flat area.	
	······································
09 Necessary Institution (Facility, Material)	
Refer to Chapter 4 "Table 4.7"	
10 Champart Weton Coverage (V) Any veton consumption of formats	29%
10 Current Water Coverage (%) (by water consumption at faucets) (2.0m3*5PF+0.7m3*23HC+1.3m3*1BC)=26.1m3/day 26.1m3/20Lpcd.= 1,305 persons 1,305persons / 4	
(2.01113/2012pcd.= 1,503 persons 1,503 persons 1,503 persons 1,503 persons 2,503 perso	153%
(4.8L*3600min*8hrs)=138240L 138240L/20L=6912persons 6912persons/4510population=153%	10070
11 Water Potential (A/B/C/D/E)	С
12 Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not Approached	C/D
A=Road Width > $6m / B= >3 \sim 6m / C= 1 \sim 3m / D= <1m$	
It is difficult for operation & maintenance due to long distance from local plincipal cities.	
Manpower Capability of Water Supply Management by Water Office point)	9
14 Dgree of urgency (A / B / C / D / E)	
Refer to Chapter 5 & 7	
15 New Water Supply Plan	
The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The	small town is on the
generally flat terrains, construction work is not difficult.	Sinan town is on the
16 Other Donors, NGO's	
17 Main Ethnic Group Oromo	
	······································
18 Health conditions	
-1 Medical facilities in Town Health Center	er, Private clinic
-2 Nearest other facilities from Town km 200	
-3 Main patients of water born diseases persons / year Typhoid	6,000
	3,000
Dysentery	2,500 10,400
Diarrhea	111400
Diarrhea Malaria	
Diarrhea	
Diarrhea Malaria 19 Main economic activities farming, Tra	
Diarrhea Malaria 19 Main economic activities farming, Tra	de
Diarrhea Malaria Main economic activities farming, Tra Particular comments:	de within 20minutes
Diarrhea Malaria Main economic activities Particular comments: Collection reservoir is 10m3 where water is boosted to 50m3 reservoir, where the booster pump depelets it	de within 20minutes
Diarrhea Malaria Main economic activities Particular comments: Collection reservoir is 10m3 where water is boosted to 50m3 reservoir, where the booster pump depelets it Borehole casing dia. Is small for big discharge pumps hence monolift pump is installed and boosted to main cost and less water production	de within 20minutes
Diarrhea Malaria Main economic activities Particular comments: Collection reservoir is 10m3 where water is boosted to 50m3 reservoir, where the booster pump depelets it Borehole casing dia. Is small for big discharge pumps hence monolift pump is installed and boosted to main cost and less water production Remarks: Mr. Abdi Mamo head Woreda water office Mob. 0910874999 Off. 098	de within 20minutes n reservoir resulted in high
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O-31 Milami



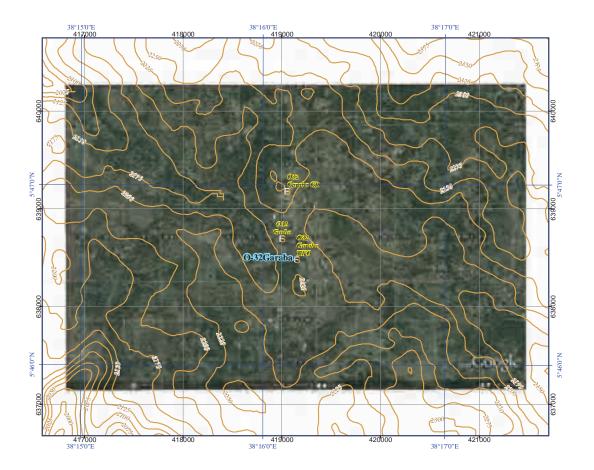
O-32 Gerada

	Oromia Region	0	17 /30	-
	Name of small town :	Gerada	O- 32	_
	Name of Woreda :	Bure Hara	OW- 21	
	Name of Zone :	Borena	OZ- 02	
	Profile ite	ms	Profile	!
01	Population			
	Town male / female		3,725 3,775 7,500	
	Woreda male / female	e / total by Census 2007	not listed not listed not listed	
	percentage of Town in Woreda		#VALUE!	_
	Town Coordination UTM (Adino	dan) Easting / Northig / Alt.	419060 638333 2,224	l l
	Town Status Water Source		Municipality	+
J4	04-01 Water source	Type, No.	Well*2nos. (1 well is not function)	+
	04-01 Water source 04-02 Well spec.	Depth., Casing Dia., S.W.L, Yield		+
	04-03 Method of water draw	Pump, Gravity	Pump	
	04-04 Pump Spec.	Type, Yield	Motorized pump	†
	04-05 Power source for motorized pump	Type, Kva	Commercial elec.	-
	04-06 Durartion of water draw (Operation hours		4hours/day	
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen		1/2 New BH Function, 2/2 Old BH Shielded	
				$oxed{\bot}$
)5	Existing Water Supply Facilities			<u> </u>
	05-01 Established year	(Gregorian calendar)	Not grasped	!
	05-02 Financial of implementation	Donor's name	SIDA, OWRB	-
	05-03 Name of implementation (Project name)		Gerba water supply project	
	05-04 Intake Type 05-05 Intake No.		Well 2nos. (1 well is not function)	╁
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reserv	voir) Pipe material, length	GIP, 4"*585m+2*1/2"*95m (Total 680m)	-
	05-07 Power to convey	Pressure. Gravity	Pressue	
	05-07 Tower to convey 05-08 Water treatment		nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Type	GR	T
	05-11 Water reserver No.	no.	1no.	T
	05-12 Water reserver Capacity	m3	100m3	
	05-13 Transmission Type (Booster pump Stn. ~		nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	ļ
	05-15 Distribution Type	Pipe material, length	See below memo	!
	05-16 Power to distribute		Gravity	
	05-17 Structure Type of water point (Public Fau		Mansonry	ļ
	05-18 Number of water point (Public Faucet, PF 05-19 Number of faucet at a water point (Public		11 4FC*4PF, 6FC*6PF	-
	05-19 Number of faucet at a water point (Public 05-20 Average of daily water consumption at a v		3.0m3/day	
	05-20 Average of daily water consumption at a v		210	-
	05-22 Average of daily water consumption of House		0.92m3/day	
	05-23 Number of Business Conection (BC)		Not grasped	
	05-24 Type of Business Connection (BC)		Not grasped	†
	05-25 Average of daily water consumption of Business		Not grasped	
	05-26 Other technical specimen			
)6	Operation and Maintenace			ļ
	06-01 Organization's name		Town warter supply servise	
	06-02 Type of organization	Regional, Zone, Enterpriceetc.	Woreda	1
	06-03 Number of thechnical staff		3	ļ
	06-04 Principal works of technical staff		Pump operation, Plumbing	_
	06-05 Number of the financial staff 06-06 Principal works of financial staff		Water meter read, Bill	
	06-07 Categories of water tariff	W.Point, House Connectionetc.	W. Point, House connection	-
	06-08 Water tariff rate	w.i omi, mouse Connectionetc.	m. 1 omit, 11ouse connection	+
	Water point (Public faucet)	Birr/L, 20L	0.2 birr / 20L	1
	House connection	Birr/m3	See below memo	†
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	15,000birr/month	1
	06-10 Procurement of spare parts		Hagremariam	1
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair	by Regional office, Private companyetc	Region	
	06-13 Principal serious repair with 5-10 years		Pump motor burned	
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Organization, Gov., Donorsetc.	Town water supply servise	↓

O-32 Gerada

07	Problem of actual town water supr	N _V	I		
07	Problem of actual town water support of the problem of the pro)IY			
			C1	C 1 ' '	
	Water source	Quantity, Qualityetc.		ter for business connection	
	Water supply facility	Decrepit, leakage, design failureetc	Design failur	·e	
	07-02 Finalcial				
	Management		nil.		
	Rate of water tarrif collection	on	revised		
	Personnel expenses		nil.		
	Shourtage of budget to exec	ute operation & maintenace	Shortage for	expansin of pipe line	
	07-03 Other incidential, Special sp	pecimen			
	Increase in population to co		Coming fron	ı villagers	
	Change in industry	increase factory, Tradingetc.			
	Human conflict	Ethnic, Administrativeetc			·····
		Eunic, Administrativeetc			
	07-04 Other specimen				
L.					
08	Geographical condition	(Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town is on the flat area.				
09	Necessary Institution (Facility, Ma	nterial)			
	Refer to Chapter 4 "Table 4.7"				
10	Current Water Coverage (%) (by	water consumption at faucets)		149%	!
1.0	8 (1) (1)	*0BC)=223.2m3/day 223.2m3/20Lpcd.= 11,160persons 11	160nercone /		•
l	Current Water Coverage (%) (by		,100pc180H8 /	7,300 population49% 161%	
l			500 1		ļ
<u> </u>		DL/day 241920/20Lcd=12096persos 12096persons/7	500populatio		
11	Water Potential (A/B/C/D/E			С	
<u> </u>					
12	Accessibility (A/B/C/D/E)	A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B / C	
1		A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			L
	Access road is asphalt road 16km	from Hagremariam, 89km from Dila.			
13		pply Management by Water Office (point)		16	
10	Trainpower cupacinity of water su	pply management by mater office going			
1.4	Df (A / D / C / D /	E)			
14	Dgree of urgency (A / B / C / D / Refer to Chapter 5 & 7	E)			
	Refer to Unapter 5 & /				
	Treater to chapter 5 cc /				
15	New Water Supply Plan				
15	New Water Supply Plan	Palining and admining a second admining a second and admining a second admining a second and admining a second adm	hl The		
15	New Water Supply Plan The facility can be designed in an	Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the gentle	2
15	New Water Supply Plan		hnology. The	small town is on the gentle	3
	New Water Supply Plan The facility can be designed in an ridge, however, construction work		hnology. The	small town is on the gentle	2
	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's		hnology. The	small town is on the gentle	2
	New Water Supply Plan The facility can be designed in an ridge, however, construction work		hnology. The	small town is on the gentle	2
16	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6				2
16	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's		hnology. The		0
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group				
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions		Oromo, Gede	eo	
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	is not difficult.	Oromo, Gede		
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	is not difficult.	Oromo, Gede Health Cente	eo	
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	Town km	Oromo, Gede	eo	
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	Town km	Oromo, Gede Health Cente	eo er, Private clinic, Drug stor	
16 17	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	Town km	Oromo, Gede Health Cente 15 Diarrhea	eo er, Private clinic, Drug stor 392	
16 17 18	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	Town km	Oromo, Gede Health Cente 15 Diarrhea Typhoid	eo er, Private clinic, Drug stor 392 329 30	
16 17 18	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born	Town km	Oromo, Gede Health Cente 15 Diarrhea Typhoid Malaria	eo er, Private clinic, Drug stor 392 329 30	
16 17 18	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities	Town km	Oromo, Gede Health Cente 15 Diarrhea Typhoid Malaria	eo er, Private clinic, Drug stor 392 329 30	
16 17 18	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments:	Town km diseases persons / year	Oromo, Gede Health Cente 15 Diarrhea Typhoid Malaria	eo er, Private clinic, Drug stor 392 329 30	
16 17 18	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Inside of G. Reservoir has been dis	Town km diseases persons / year	Oromo, Gede Health Cente 15 Diarrhea Typhoid Malaria	eo er, Private clinic, Drug stor 392 329 30	
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16 17 18 19 20	New Water Supply Plan The facility can be designed in an ridge, however, construction work Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Inside of G. Reservoir has been dis Water demand has been increasing	Town km diseases persons / year sinfected occasionally by Town water office. g due to establishing school, clinicetc.	Oromo, Gede Health Cente 15 Diarrhea Typhoid Malaria Trade, Farmi	er, Private clinic, Drug stor 392 329 30 ing	
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O-32 Gerada



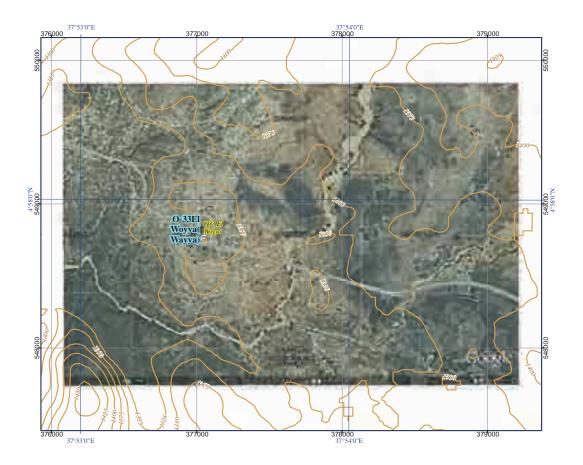
O-33 El Wayya

	Oromia Region		18 /30	
	Name of small town :	El Woyya	O- 33	
	Name of Woreda :	Yabelo	OW- 10	1
	Name of Zone :	Borena	OZ- 02	
	Profile items		Profile	!
01	Population			
	Town male / female / to	•	2,015 2,075 4,090	
	Woreda male / female / to	by Census 2007	51,537 50,848 102,385	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	4.0% 376956 548609 1,381	
	Town Status	Easting / Norting / Art.	Town administration	
04	Water Source			
	04-01 Water source	Type, No.	Well * 1no.	
	04-02 Well spec.		GL-180m, 6*5/8", GL-??m, 6.9L/sec.	
	04-03 Method of water draw	Pump, Gravity	Pump	ļ
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	Motorized pump Commercial Elec. Line, Generator	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	02:00-06:00 (4hrs./day)	!
	04-07 Water quality	Iron, Fluorideetc.	good	· · ·
	04-08 Other technical specimen	non, i raoriaeee.	5004	ļ
				<u> </u>
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	2006	
	05-02 Financial of implementation	Donor's name	US Aid	ļ
	05-03 Name of implementation (Project name)		El Wayya water project	ļ
	05-04 Intake Type 05-05 Intake No.		Well 1no.	ļ
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2", 2,000m	
	05-07 Power to convey	Pressure, Gravity	Pressure	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	<u> </u>
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Туре	GR	
	05-11 Water reserver No.	no.	lno.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Rese	m3 ervoir) Pipe material, length	nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Rese 05-14 Power to transmit	Pressure, Gravity	nil.	ļ
	05-14 Tower to transmit 05-15 Distribution Type	Pipe material, length	GIP, 2", 600m	······
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet,	PF) RC, Masonry, Pipeetc.	Mansonry	
	05-18 Number of water point (Public Faucet, PF)	no.	2	
	05-19 Number of faucet at a water point (Public Fau		6	
	05-20 Average of daily water consumption at a water 05-21 Number of House Connection (HC)	point (PF) m3/day	3.0m3/day nil.	ļ
	05-22 Average of daily water consumption of House Con	nection(HC) m3/day	nii.	
	05-23 Number of Business Conection (BC)	indicate in instruction	nil.	
		ctory, School, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Con		nil.	
	05-26 Other technical specimen			
0.1				
06	Operation and Maintenace 06-01 Organization's name		Water committee	
	06-01 Organization's name 06-02 Type of organization	Regional, Zone, Enterpriceetc.	Water committee Community based organization	
	06-03 Number of thechnical staff	Regional, Zone, Emerpriceetc	1	
	06-04 Principal works of technical staff		Pump operation	†
	06-05 Number of the financial staff		2	1
	06-06 Principal works of financial staff		Water sale	
	06-07 Categories of water tariff	W.Point, House Connectionetc.	W. Point	ļ
	06-08 Water tariff rate	D: 7 001	0.2h:/20J	
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	0.3birr/20L nil.	ļ
	Business connection	Birr/m3	nii.	
	06-09 Average monthly income by water tariff	Birr/month	4,000birr/month	ł
	06-10 Procurement of spare parts	at Town, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc	Pipefittings	
		y Regional office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Generator broken	ļ
l	06-14 Fund for above 6-09, 6-10	by Organization, Gov., Donorsetc.	Water committee	
	06-15 Other technical specimen			ļ
				. !

O-33 El Wayya

07	Problem of actual town water supply				
0,	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorta	age due to operation hour	s.
	Water supply facility	Decrepit, leakage, design failureet	c.Pipe networl	k is limited.	
	07-02 Finalcial				***************************************
	Management		Not grasped		
	Rate of water tarrif collection		Not grasped		
	Personnel expenses		Not grasped		
	Shourtage of budget to execute operation	& maintenace	Shortage bud	dget for O&M	
	07-03 Other incidential, Special specimen				
	Increase in population to consume water	coming from other towns, villageset	c.nil.		
	Change in industry	increase factory, Tradinget			
	Human conflict	Ethnic, Administrativeet	c nil.		
	07-04 Other specimen				
08	Geographical condition (Slope on more	untaion, bottom of valley, Top of ridgeetc	.)		
	Town is on the flat area.				
09	Necessary Institution (Facility, Material)				
-	Refer to Chapter 4 "Table 4.7"				
10	Current Water Coverage (%)			7%	!
,	(3.0m3*2PF+0m3*0HC+0m3*0BC)=6.0m3/day	7 6.0m3/20Lpcd.= 300persons 300persons	/ 4,090 popul		┪
	Current Water Coverage (%) (by data of water s	source product))	, z z Popan	243%	
	((6.9L)*3600min*8hrs)=198720L 198720L/201	L=9936persons 9936persons/4090population	n=243%	. 2.570	┪
11	Water Potential $(A/B/C/D/E)$		570	Е	\top
. 1	a.c. i otomiai (11/B/C/B/E)			,	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=I	Base Course/C=Sub Grade/D=Only Dry Season/E=No	ot Approached	E/E	+
		dth > 6m /B = >3~6m / C = 1~3m / D = <1m	11		
	Access road is Sub Grade 30km from Yabelo, 22				
13	Manpower Capability of Water Supply Manager			6	\top
	rana supply manager	, , , , , , , , , , , , , , , , , , ,			_
14	Doree of urgency (A / B / C / D / F)				
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7 New Water Supply Plan				
	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan		chnology. The	e small town is on the	
	Refer to Chapter 5 & 7 New Water Supply Plan		chnology. The	e small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan		chnology. The	e small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d		chnology. The	e small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d		chnology. The	e small town is on the	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d		chnology. The	e small town is on the	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's			e small town is on the	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's			e small town is on the	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group		Borena	e small town is on the	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town		Borena	er, Private clinic	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	lifficult.	Borena Health Center 130	er, Private clinic	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	lifficult.	Borena Health Cente 130 Mararia	er, Private clinic	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	lifficult.	Borena Health Cente 130 Mararia Dysentery	er, Private clinic) 300 250	
15 16 17	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Out of the study area.	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	lifficult.	Borena Health Cente 130 Mararia Dysentery Typhoid	er, Private clinic) 300 250 50	
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Out of the study area.	km persons / year	Borena Health Center 130 Mararia Dysentery Typhoid Livestock, F	er, Private clinic 300 250 50 Farming, Trade	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Out of the study area. Remarks:	km persons / year Ayano Water committee Audit & inspection h	Borena Health Center 130 Mararia Dysentery Typhoid Livestock, F	er, Private clinic 300 250 50 Farming, Trade	
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Out of the study area. Remarks: Mr. Husen A Mr. Husen A	km persons / year	Borena Health Center 130 Mararia Dysentery Typhoid Livestock, F	er, Private clinic 300 250 50 Farming, Trade	
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115 116 117 118 119 220	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not do Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Out of the study area. Remarks: Mr. Husen A Mr. Husen A	km persons / year Ayano Water committee Audit & inspection h	Borena Health Center 130 Mararia Dysentery Typhoid Livestock, F	er, Private clinic 300 250 50 Farming, Trade	
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O-33 El Wayya



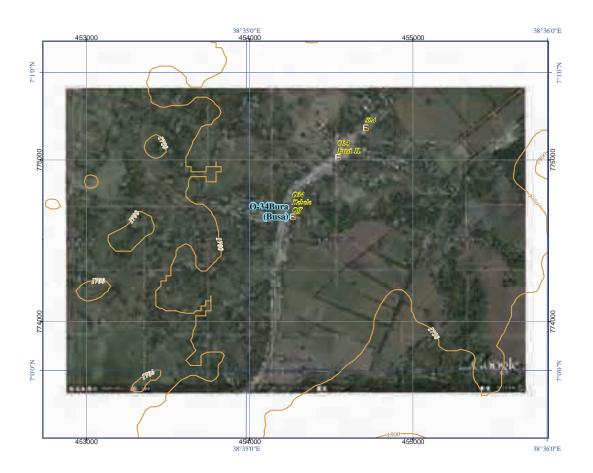
O-34 Busa

Oromia Region				19	
Name of small town	:	Busa (Bura)	0-	
Name of Woreda	:	Wond		OW-	22
Name of Zone	:	West Arsi		OZ-	04
	Profile items			Profile	
Population					
Town	male / female / total	by OWRB	2,500	2,612	5,112
Woreda	male / female / total	by Census 2007	not listed	not listed	not listed
percentage of Town in Wor	eda				#VALUE!
Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	454170	774515	1,721
Town Status			Town administ	ration	
Water Source					
04-01 Water source		Type, No.	Well*1no.		
04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield			
04-03 Method of water draw		Pump, Gravity	Hand pump Manual		
04-04 Pump Spec.	l	Type, Yield	nil.		
04-05 Power source for motorized 04-06 Durartion of water draw (O		Type, Kva daily hours, time	Not grasped		
04-07 Water quality	peration nours)	Iron, Fluorideetc.	Not grasped		
04-08 Other technical specimen		non, radondeetc.	110t grasped		
5. 55 State technical specialist	***		***************************************	***************************************	
Existing Water Supply Facilities					
05-01 Established year		(Gregorian calendar)			
05-02 Financial of implementation	1	Donor's name	Goal Ethiopia		
05-03 Name of implementation (P	roject name)		Busa water sup	ply project	
05-04 Intake Type			Well		
05-05 Intake No.			1no.		
05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	nil.		
05-07 Power to convey		Pressure, Gravity	nil.		
05-08 Water treatment		Disinfection, Ironetc.	nil.		
05-09 Water treatment capacity		m3/day	nil.		
05-10 Water reserver type		Туре	nil.		
05-11 Water reserver No.		no.	nil.		
05-12 Water reserver Capacity	G. D	m3	nil.		
05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil. nil.		
05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	nil.		
05-16 Power to distribute		Pressure, Gravity	nil.		
05-17 Structure Type of water poi	nt (Public Faucat DF)	RC, Masonry, Pipeetc.			
05-18 Number of water point (Pub		no.	nil.		
05-19 Number of faucet at a water			nil.		
05-20 Average of daily water cons			nil.		
05-21 Number of House Connecti			nil.		
05-22 Average of daily water consum	nption of House Connection(I	HC) m3/day	nil.		
05-23 Number of Business Conec			nil.		
05-24 Type of Business Connection	on (BC) Factory, Se	chool, Gov. office, Hospitaletc.	nil.		
05-25 Average of daily water consump	ption of Business Connection ((BC) m3/day	nil.		
05-26 Other technical specimen					
Operation and Maintenace					
06-01 Organization's name			nil.		
06-02 Type of organization		Regional, Zone, Enterpriceetc.			
06-03 Number of thechnical staff			nil.		
06-04 Principal works of technical			nil.		
06-05 Number of the financial state	······································		nil.		
06-06 Principal works of financial		W Deint Hanne C	nil.		
06-07 Categories of water tariff 06-08 Water tariff rate		W.Point, House Connectionetc.	1111.		
Water point (Public faucet)		Pier/ 201	nil.		
House connection		Birr/L, 20L Birr/m3	nil.		
Business connection		Birr/m3	nil.		
06-09 Average monthly income by	v water tariff	Birr/month	nil.		
06-10 Procurement of spare parts		own, Zonal Cap. Reg. Capetc.			
06-11 Principal spare parts	at 1	Oil filter, Fuel filter, Pipesetc			
06-12 Method in case of serious re	enair by Regio	onal office, Private companyetc			
			nil.		
U6-13 Principal serious repair with					
06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		Organization, Gov., Donorsetc.	nil.		

O-34 Busa

07	Problem of actual town water supply				ļ
	07-01 Technical				ļ
	Water source Quantity, Qualityetc.	Not grasped			ļ
	Water supply facility Decrepit, leakage, design failureetc	nıl.			
	07-02 Finalcial	*1			ļ
	Management	nil.			
	Rate of water tarrif collection	nil.			ļ
	Personnel expenses	nil.			
	Shourtage of budget to execute operation & maintenace	nil.			ļ
	07-03 Other incidential, Special specimen	G : 6	.11		
	Increase in population to consume water coming from other towns, villagesetc	Coming fron	1 Villagers		
	Change in industry increase factory, Tradingetc Human conflict Ethnic. Administrativeetc		-4		
		Ethine comin	CI		!
	07-04 Other specimen				
00	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.	\			
00	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc. Town is on the flat area.)			
	Town is on the flat area.				
00	Necessary Institution (Facility, Material)				
Už	Refer to Chapter 4 "Table 4.7"				
	Refer to Chapter + Table 4.7				
10	Current Water Coverage (%) (by water consumption at faucets)		6	%	<u> </u>
10	(6.0m3*1PF+0m3*0HC+0m3*0BC)=6.0m3/day 6.0m3/20Lpcd.= 300persons 300persons	/ 5.112 nonul:			
	Current Water Coverage (%) (by data of water source product))	, - Fopun	% % % % % % % % % % % % % % % % % % %)	†
			, ,,		1
11	Water Potential (A / B / C / D / E)		В	3	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B /	A	
	A=Road Width $> 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$				
	Access road is Asphalt and Sub-Grade 20km from Awasa. (=8+12km from Awasa)				
13	Manpower Capability of Water Supply Management by Water Office (point)		2		
14	Dgree of urgency (A/B/C/D/E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec				
	troubles, conflicts with neighborhoods for development of water sources. The small town is or	the generally	flat terrains,	however,	
1.0	construction works is required some ingenuities arround water sources. Other Donors, NGO's				
10	nil.				
	1111.				
17	Main Ethnic Group	Oromo			<u> </u>
- /	That Same Goap	010110			*
18	Health conditions				
	-1 Medical facilities in Town	Private clinic	, Drug store,	Health post	
	-2 Nearest other facilities from Town km	30	in the second		
	-3 Main patients of water born diseases persons / year	Dysentery	4,500		
		Typhoid	3,000		
		Diarrhea	2,200		
		Malaria	1,500		
		Cholera	500		
		others	2,500		
19	Main economic activities	Farming, Tra	ıde		
20	Particular comments :				
	Ethnic conflict has Residence house were burned by conflict. Police and militar	·			!
	Water is distributed from sheshe town and administered by that community. Hence there is no s	source or facil	ity managed I	ntaye town.	ļ
2.	This small town is a priority of tranquility for public safety.				<u> </u>
21	Remarks:				
					
Mon	no (Town sketchetc.):				
.,101	(2011) 340001 (1100.)	I	1		L
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O-34 Busa



O-35 Awash Mercasa

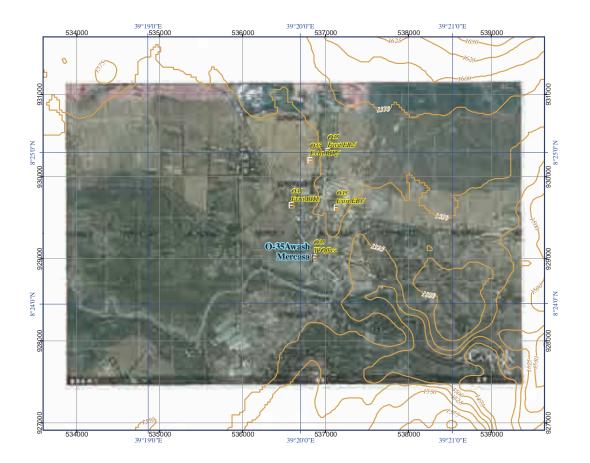
	Oromia Region		20	/30	
	Name of small town :	Awash Merca	ısa O-	· 35	
	Name of Woreda :	Adama	OW-	- 19	
	Name of Zone :	East Shewa	a OZ-	· 03	
	Profile items		Profile		!
01	Population				
	Town male / female / total Woreda male / female / total	by OWRB	5,050 5,150		
	percentage of Town in Woreda	by Census 2007	68,726 69,923	3 138,649 7.4%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	536766 928904		
_	Town Status	Zasting / Trorting / The	Municipality	1,551	
04	Water Source		·		
	04-01 Water source	Type, No.	BH Well * 2nos. (1funnc	tion)	
		h., Casing Dia., S.W.L, Yield			
	04-03 Method of water draw	Pump, Gravity	Pump Motorized pump 11kw		
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	Commercial Elec. Line		
	04-06 Durartion of water draw (Operation hours)	daily hours, time	05:30-12:30, 13:30-20:00	(13.5hrs./day)	
	04-07 Water quality	Iron, Fluorideetc.	Floride	(15.51115), (11.7)	!
	1 1	iron, r tuorideetc.	1101100		•
	04-08 Other technical specimen		***************************************		
05	Existing Water Supply Facilities				
	05-01 Established year	(Gregorian calendar)	1990		
	05-02 Financial of implementation	Donor's name	World Vision		
	05-03 Name of implementation (Project name)		Awash Mercasa water pro	oject	
	05-04 Intake Type		Well		
	05-05 Intake No.		2nos. (1 function)		
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	GIP, 2", 500m Pressure		
	05-07 Power to convey 05-08 Water treatment	Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity	m3/day	nil.		
	05-10 Water reserver type	Type	ER (Steel)		
	05-11 Water reserver No.	no.	ER*2nos.		
	05-12 Water reserver Capacity	m3	23m3*1no., 13m3*1no.		
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit	Pressure, Gravity	nil.		
	05-15 Distribution Type	Pipe material, length	Not grasped		
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity Mansonry		
	05-18 Number of water point (Public Faucet, PF)	no.	8		
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6		
	05-20 Average of daily water consumption at a water point (PF)	m3/day	0.8m3/day		
	05-21 Number of House Connection (HC)		529		
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	Not grasped		
	05-23 Number of Business Conection (BC)		17		
	05-24 Type of Business Connection (BC) Factory, Schoo 05-25 Average of daily water consumption of Business Connection (BC)	l, Gov. office, Hospitaletc.	Not grasped Not grasped		
	05-26 Other technical specimen	m3/day	Not grasped		
	25 20 State technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name		Town water supply service	ce	
	71 0	gional, Zone, Enterpriceetc.	Zone		
	06-03 Number of thechnical staff		3		
	06-04 Principal works of technical staff		Pump operation, Plumbin	ng	
	06-05 Number of the financial staff 06-06 Principal works of financial staff		Water meter read, Bill		
		oint, House Connectionetc.	W. Point, House connects	ion	
	06-08 Water tariff rate	omi, frouse connectionetc.	vv. i olit, frouse connects	ion	
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L		
	House connection	Birr/m3	0~10m3=2.5birr/m3, 10m	3~=3.0birr/m3	
	Business connection	Birr/m3	ditto		
	06-09 Average monthly income by water tariff	Birr/month	6,000birr/month		
		filter, Fuel filter, Pipesetc office, Private companyetc			
	06-12 Method in case of serious repair by Regional of 06-13 Principal serious repair with 5-10 years	onice, Private companyetc	Not grasped		
		nization, Gov., Donorsetc.	Zone		
	06-15 Other technical specimen	, 2011, 201010 11100			

O-35 Awash Mercasa

07	Problem of actual town water supply			
07	07-01 Technical			
	Water source Quantity, Qualityetc.	Floride		!
	Water supply facility Decrepit, leakage, design failureetc		e (Reservoir etc.)	
	07-02 Finalcial	Design fundi	e (Reservoir etc.)	
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	free		
	Shourtage of budget to execute operation & maintenace	***************************************	lget for O&M	
	07-03 Other incidential, Special specimen		6	
	Increase in population to consume water coming from other towns, villagesetc	Coming fron	n villagers	
	Change in industry increase factory, Tradingetc.	Sugure facto	ry	
	Human conflict Ethnic, Administrativeetc			
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town is on the flat area.			

09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		57%	
	((0.8m3*8)+(40L*5pesons*(529+17)))/20/10200			
1	Current Water Coverage (%) (by data of water source product))	***************************************	%	
L				
11	Water Potential (A/B/C/D/E)		Е	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	E/E	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access road is Asphalt road 17km from Adama. * Refer to Chapter 5 "Table 5-7: Categories of	of accessibilit	y"	
13	Manpower Capability of Water Supply Management by Water Office point)		13	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
16	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's		-	
	World Vision			
17	Main Ethnic Group	Oromo, Sout	h	
18	Health conditions			
	-1 Medical facilities in Town	Health Cente	r, Private clinic	
	-2 Nearest other facilities from Town km	16		
	-3 Main patients of water born diseases persons / year	Mararia	720	
		Typhoid	300	
		Diarrhea	5	
19	Main economic activities	Trade, Farmi	ng	
-				
20	Particular comments :			
1	FI 4 1 14 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1	Elevated reservoir tank has been maintained (cleaned) regularly by the Town water office.			
1	There is World vision ofice in Town.			
2:	There is World vision ofice in Town. Out of the study area.			
21	There is World vision ofice in Town. Out of the study area. Remarks:			
21	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041,	0222250182		
21	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360	0222250182		
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577	0222250182		
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360	0222250182		
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.):	0222250182		
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec.	0222250182		
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec.	0222250182		
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	
	There is World vision ofice in Town. Out of the study area. Remarks: Out of the study area. Mr. Hailu Heundie Water servics head Mob. 0913264041, Mr. Mengistu Bekele Casher Mob. 0912249360 Mr. Tewabech Seyoum Bill collector, 0910986577 no (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999 GL-??m / ??" / SWL GL-??m / ??L/sec.	0222250182	Not function	

O-35 Awash Mercasa



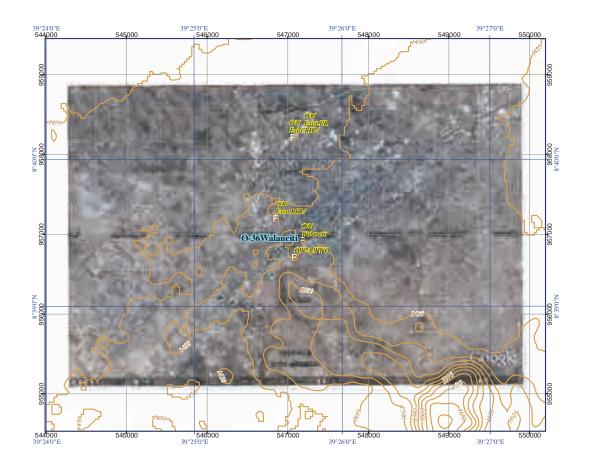
O-36 Walanciti

	Oromia Region		\A1.1 141	21 /30	-
	Name of small town	:	Walanciti		
	Name of Woreda		Bosat	OW- 23	
	Name of Zone	:	East Shew	a OZ- 03	
		Profile items		Profile	!
01	Population Town Woreda percentage of Town in Wo	male / female / total male / female / total	by OWRB by Census 2007	5,590 5,670 11,260 not listed not listed not listed #VALUE!	
)2	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	547079 956807 1,470	,
	Town Status	0 2112 (1 2011 2011)		Municipally	
)4	Water Source				
	04-01 Water source		Type, No.	BH Well * 5nos.	
	04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield		-
	04-03 Method of water draw		Pump, Gravity	Pump See below memo	
	04-04 Pump Spec. 04-05 Power source for motorized	l numn	Type, Yield Type, Kva	Commercial Elec. Line	
	04-06 Durartion of water draw (C		daily hours, time	24hrs.	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Flouride	
05	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1969,1979,1994,1993, 1993,2007	
	05-02 Financial of implementatio		Donor's name	ARDU, Kalehiwot church, World Vision	ļ
	05-03 Name of implementation (I	Project name)		Walanciti water project Well	ļ
	05-04 Intake Type 05-05 Intake No.			6nos.	
	05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP, 4", 500m	-
	05-07 Power to convey	ource - Reservoir)	Pressure, Gravity	Pressure	·
	05-08 Water treatment		Disinfection, Ironetc.	nil.	-
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Туре	ER	
	05-11 Water reserver No.		no.	2nos.	
	05-12 Water reserver Capacity	G: D :)	m3	50m3*2nos.	ļ
	05-13 Transmission Type (Booste 05-14 Power to transmit	er pump Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	See below memo	╁
	05-16 Power to distribute		Pressure, Gravity	Gravity, Pressure	†
	05-17 Structure Type of water po	int (Public Faucet, PF)	RC, Masonry, Pipeetc		
	05-18 Number of water point (Pu		no.	21	
	05-19 Number of faucet at a wate			5FC*4PF, 3FC*6PF, 1FC*11PF	
	05-20 Average of daily water con		(PF) m3/day	12.0m3/day	ļ
	05-21 Number of House Connect 05-22 Average of daily water consur		(HC)2/4	1,296 0.34m3/day	
	05-23 Number of Business Coned	*	(HC) m3/day	162	-
	05-24 Type of Business Connecti		School, Gov. office, Hospitaletc		
	05-25 Average of daily water consum			0.42m3/day	-
	05-26 Other technical specimen				
)6	Operation and Maintenace				ـــــ
	06-01 Organization's name 06-02 Type of organization		Regional, Zone, Enterpriceetc	Town water spply service office	
	06-02 Type of organization 06-03 Number of thechnical staff		Regional, Zone, Enterpriceetc	6	ļ
	06-04 Principal works of technical			Pump operation, Plumbing	ļ
	06-05 Number of the financial sta			13	
	06-06 Principal works of financia			Water meter read, Bill	1
	06-07 Categories of water tariff 06-08 Water tariff rate		W.Point, House Connectionetc		
	Water point (Public faucet)		Birr/L, 20L	0.2birr/20L	ļ
	House connection		Birr/m3 Birr/m3	See below memo	1
	Business connection 06-09 Average monthly income b	v water tariff	Birr/m3 Birr/month	ditto 100,000birr/month	
	06-10 Procurement of spare parts		Town, Zonal Cap. Reg. Capetc		
	06-11 Principal spare parts	at	Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious r	epair by Reg	ional office, Private companyetc		
	06-13 Principal serious repair wit			Pump motor burned	1
	06-14 Fund for above 6-09, 6-10	by	Organization, Gov., Donorsetc	. Water office, Region	
	06-15 Other technical specimen				ļ

O-36 Walanciti

	Problem of actual town water supp					- 1
	07-01 Technical Water source		Quantity, Qualityetc.	Chartaga wa	tor (Old DU)	
	Water supply facility	Decrenit	, leakage, design failureetc	Water leaka	ge Design failure	
	07-02 Finalcial	Бестери	, reakage, design famareete	· · · · · · · · · · · · · · · · · · ·	50, 2001511 1411410	
Ì	Management			nil.		
	Rate of water tarrif collection	l		nil.		
Ì	Personnel expenses			nil.		
	Shourtage of budget to execu			nil.		
	07-03 Other incidential, Special spe					
ļ	Increase in population to cor		om other towns, villagesetc		n other villages	
	Change in industry	ir	crease factory, Tradingetc.			
	Human conflict		Ethnic, Administrativeetc	nil.		
	07-04 Other specimen					
8	Geographical condition (Clans on mountains battom	of valley, Top of ridgeetc.)	<u> </u>		
	Town is on flat area.	Stope on mountaion, bottom	or variey, rop or ridgeetc.)	,		
	10wii is on that area.					
9	Necessary Institution (Facility, Ma	erial)				
	Refer to Chapter 4 "Table 4.7"					
		(100001)			1	
	Current Water Coverage (%) (by v				338%	
	(12m3*21PF+0.34m3*1296HC+0.42m3			34persons / 11,2	·	
	Current Water Coverage (%) (by d			20060	275%	
_	((2.5L+4.5L+3.5L+2.5L+3.0L+5.5L)**50UUmin*8hrs)=619200L	019200L/20L=30960persons	30960persons		%
1	Water Potential (A / B / C / D / E)				Е	_
2	Accessibility (A / B / C / D / E)	A=Asphalt/B=Base Course/C=Suk	Grade/D=Only Dry Season/E=Not	Approached	E/E	\dashv
-	recessionity (11/B/C/D/E)	A=Road Width > 6 m $/$ B= > 3		pprodefied	L/L	
ŀ	Access road is Asphalt road 26km			of accessibilit	y"	
	Manpower Capability of Water Su				22	
ı						
	Dgree of urgency (A / B / C / D / I					
	Dgree of urgency (A / B / C / D / B Refer to Chapter 5 & 7)				
5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the	thiopian standard, however,			•	100
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's	thiopian standard, however, generally flat terrains, however			•	100
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources.	thiopian standard, however, generally flat terrains, however			•	100
5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World	thiopian standard, however, generally flat terrains, however			enuities arround water	100
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's	thiopian standard, however, generally flat terrains, however		ired some ing	enuities arround water	100
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World	thiopian standard, however, generally flat terrains, however		ired some ing	enuities arround water	100
6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World V Main Ethnic Group	thiopian standard, however, generally flat terrains, however	er, construction works is requi	Amhara, Oro	enuities arround water	
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions	thiopian standard, however, generally flat terrains, however rision		Amhara, Oro	omo er, Private clinic, Drug	
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town	thiopian standard, however, generally flat terrains, however ission	er, construction works is requi	Amhara, Oro	omo er, Private clinic, Drug	
5 6 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born	thiopian standard, however, generally flat terrains, however ission	er, construction works is requi	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	thiopian standard, however, generally flat terrains, however ission	er, construction works is requi	Amhara, Oro Health Cente	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities	thiopian standard, however, generally flat terrains, however ission	er, construction works is requi	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments:	thiopian standard, however, generally flat terrains, however fision	km persons / year	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30	thiopian standard, however, generally flat terrains, however fision Town liseases	km persons / year	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water	thiopian standard, however, generally flat terrains, however fision Town liseases	km persons / year	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30	thiopian standard, however, generally flat terrains, however fision Town liseases persons for operation & maining fee.	km persons / year	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area.	thiopian standard, however, generally flat terrains, however fision Town liseases	km persons / year tenace.	Amhara, Oro Health Cente 25 Mararia	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks:	thiopian standard, however, generally flat terrains, however frision Town liseases Bersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel	km persons / year tenace.	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug	
5 7 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area.	Cown liseases Wersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/finance	km persons / year tenace.	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug	
5 7 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks:	Cown liseases Wersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/finance	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area.	Cown liseases Wersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/finance	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area. Remarks: Out of the study area.	Cown liseases Wersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/finance	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area.	Town liseases Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/financ Mr. Mengiste Dachew Techn GL-180m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-??	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug 300 ing	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area.	Complete thiopian standard, however, generally flat terrains, however, gen	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262	Amhara, Oro Health Cente 25 Mararia Trade, Farm	omo er, Private clinic, Drug 300 ing Motorised Pump	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area. O(Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.3; Estbsh on 1994	Town liseases Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/financ Mr. Mengiste Dachew Techn GL-180m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-??	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 12.5kw m / 3.5L/sec. / 15kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump	
5 7 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area. No (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.3; Estbsh on 1994 Well No.4; Estbsh on 1993	Town liseases Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personal Mr. Teshome Dere H/financ Mr. Mengiste Dachew Techn GL-180m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-??	km persons / year tenace. tenace. or Kalil administrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 12.5kw m / 3.5L/sec. / 15kw m / 2.5L/sec. / 15kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump Motorised Pump	
5 6 7 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area. No (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.4; Estbsh on 1994 Well No.4; Estbsh on 1993 Well No.5; Estbsh on 1993	chiopian standard, however, generally flat terrains, however, generally fl	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 12.5kw m / 3.5L/sec. / 15kw m / 2.5L/sec. / 15kw m / 3.0L/sec. / 11kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump	
55 56 66 88 88 99 90 11	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area. No (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.3; Estbsh on 1993 Well No.4; Estbsh on 1993 Well No.5; Estbsh on 1993 Well No.6; Estbsh on 2007	rithiopian standard, however, generally flat terrains, however, generally	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 12.5kw m / 3.5L/sec. / 15kw m / 2.5L/sec. / 15kw m / 3.0L/sec. / 11kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump	
5 7 8 9	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 plow of water user pay their water Out of the study area. Remarks: Out of the study area. Out of the study area. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.4; Estbsh on 1994 Well No.4; Estbsh on 1993 Well No.5; Estbsh on 1993 Well No.6; Estbsh on 2007 05-15 Distribution Type	rision Fown liseases Bersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/financ Mr. Mengiste Dachew Techn GL-180m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-180m / 6" / SWL GL-?? GL-180m / 6" / SWL GL-?? GL-184m / 6" / SWL GL-??	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 15kw m / 3.5L/sec. / 15kw m / 3.5L/sec. / 15kw m / 3.0L/sec. / 11kw m / 5.5L/sec. / 11kw m / 5.5L/sec. / 18.5kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump	
66 68 88 99 90 11	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 100% of water user pay their water Out of the study area. Remarks: Out of the study area. Out of the study area. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.4; Estbsh on 1994 Well No.4; Estbsh on 1993 Well No.5; Estbsh on 1993 Well No.6; Estbsh on 2007 05-15 Distribution Type GIP 4"=1,575m	rision Fown liseases Bersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personal Mr. Teshome Dere H/financ Mr. Mengiste Dachew Techn GL-180m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-180m / 6" / SWL GL-?? GL-184m / 6" / SWL GL-?? GL-184m / 6" / SWL GL-?? GL-184m / 6" / SWL GL-??	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 12.5kw m / 3.5L/sec. / 15kw m / 2.5L/sec. / 15kw m / 3.0L/sec. / 11kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump	
66 68 88 99 90 11	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an I Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born Main economic activities Particular comments: Town water supply service has 30 plow of water user pay their water Out of the study area. Remarks: Out of the study area. Out of the study area. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.4; Estbsh on 1994 Well No.4; Estbsh on 1993 Well No.5; Estbsh on 1993 Well No.6; Estbsh on 2007 05-15 Distribution Type	rision Fown liseases Bersons for operation & mainifee. Ms. Seble Takele, Mr. Mukt Mr. Negassa Jaleta Personel Mr. Teshome Dere H/financ Mr. Mengiste Dachew Techn GL-180m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-174m / 6" / SWL GL-?? GL-180m / 6" / SWL GL-?? GL-180m / 6" / SWL GL-?? GL-184m / 6" / SWL GL-??	km persons / year tenace. or Kalil adminstrator e section mob . 091197682581 nic section head mob. 0910262 m / 2.5L/sec. / 11kw m / 4.5L/sec. / 15kw m / 3.5L/sec. / 15kw m / 3.5L/sec. / 15kw m / 3.0L/sec. / 11kw m / 5.5L/sec. / 11kw m / 5.5L/sec. / 18.5kw	Amhara, Oro Health Cente 25 Mararia Trade, Farm	enuities arround water omo er, Private clinic, Drug 300 ing Motorised Pump Motorised Pump	

O-36 Walanciti



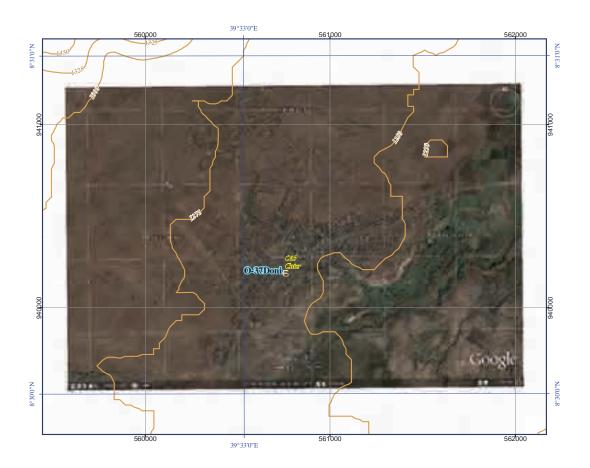
O-37 Doni

Name of small town		Doni	22 /30 O- 37	,
Name of small town	-			
Name of Woreda	:	Bosat	OW- 23	
Name of Zone	:	East Shew		
	Profile items		Profile	
Population	1 (6 1 ()	I OWED	2014 2150	4.164
Town	male / female / total	by OWRB	2,014 2,150	4,164
Woreda	male / female / total	by Census 2007		listed
percentage of Town in Wore Town Coordination	UTM (Adindan)	Fasting / Nouthin / Alt	56065 940071	1,287
Town Status	O I WI (Adilidali)	Easting / Northig / Alt.	Town administration	1,207
Water Source			Town administration	
04-01 Water source		Type, No.	nil.	
04-02 Well spec.	t to the state of	Depth., Casing Dia., S.W.L, Yield		
04-03 Method of water draw		Pump, Gravity	nil.	
04-04 Pump Spec.		Type, Yield	nil.	
04-05 Power source for motorized	pump	Type, Kva	nil.	
04-06 Durartion of water draw (Op	eration hours)	daily hours, time	nil.	
04-07 Water quality		Iron, Fluorideetc.	nil.	
04-08 Other technical specimen				
Existing Water Supply Facilities				
05-01 Established year		(Gregorian calendar)	nil.	
05-02 Financial of implementation		Donor's name	nil.	
05-03 Name of implementation (Pr	oject name)		nil.	
05-04 Intake Type			nil.	
05-05 Intake No.	D :)	D: (: 1 1 d	nil.	
05-06 Conveyance Type (Water so	urce ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.	
05-07 Power to convey 05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment capacity	***************************************	m3/day	nil.	
05-10 Water reserver type		Туре	nil.	
05-10 Water reserver type 05-11 Water reserver No.		no.	nil.	
05-12 Water reserver Capacity		m3	nil.	
05-13 Transmission Type (Booster	numn Stn ~ Reservoir)	Pipe material, length	nil.	
05-14 Power to transmit	<u> </u>	Pressure, Gravity	nil.	
05-15 Distribution Type		Pipe material, length	nil.	
05-16 Power to distribute		Pressure, Gravity	nil.	
05-17 Structure Type of water poin	t (Public Faucet, PF)	RC, Masonry, Pipeetc	. nil.	
05-18 Number of water point (Publ	lic Faucet, PF)	no.	nil.	
05-19 Number of faucet at a water	point (Public Faucet, PF	no.	nil.	
05-20 Average of daily water consu		(PF) m3/day	nil.	
05-21 Number of House Connectio			nil.	
05-22 Average of daily water consump		HC) m3/day	nil.	
05-23 Number of Business Conecti			nil.	
05-24 Type of Business Connection		School, Gov. office, Hospitaletc		
05-25 Average of daily water consumpt	tion of Business Connection	(BC) m3/day	nil.	
05-26 Other technical specimen				
Operation and Maintanese				
Operation and Maintenace 06-01 Organization's name			nil.	
06-02 Type of organization		Regional, Zone, Enterpriceetc		
06-03 Number of thechnical staff		rogional, Zone, Emerpheeett	nil.	
06-04 Principal works of technical	staff		nil.	
06-05 Number of the financial staff			nil.	
06-06 Principal works of financial			nil.	
06-07 Categories of water tariff		W.Point, House Connectionetc		
06-08 Water tariff rate				
Water point (Public faucet)		Birr/L, 20L	(5birr/20L	
House connection		Birr/m3	nil.	
		Birr/m3	nil.	
Business connection	water tariff	Birr/month	nil.	
Business connection 06-09 Average monthly income by		Town, Zonal Cap. Reg. Capetc	nil.	
	at 7	rown, Zonai Cap. Reg. Capetc	- I	
06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		
06-09 Average monthly income by 06-10 Procurement of spare parts			nil.	
06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts	pair by Regi 5-10 years	Oil filter, Fuel filter, Pipeset	e nil. e nil. nil.	

O-37 Doni

Water source Quantity, Quality Leck Water source Quantity Decrepti, leakage, design faiture Leck Water supply facility Decrepti, leakage, design faiture Leck	07	Problem of actual town water supply			1
Water source Water supply facility Decrepit, leakage, design failureetg. III. Or.20, Finalcial Management Rate of water tarrif collection Personal expenses III. III. III. III. III. III. III. I	07				
Water supply facility O'7-02 Finalical Management Rate of water tarif collection Personnel expenses Shortage of budget to execute operation & maintenace nit. O'7-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc.nii. Change in industry increase factory, Tradingetc. pnii. Human conflict Ehnic, Administrativeetc pnii. Human conflict Finality Human conflict Ehnic, Administrativeetc pnii. O'7-04 Other specimen O'8-64 Other specimen O'8-64 Other specimen O'8-64 Other specimen O'8-65 Other phenical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-65 Other phenical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical condition Town is on flat area with in gently slope at the foot of a hill in the north. O'8-66 Capaphical Capaphic			No water sur	only facility	†
O'-De Finalcial Management mil.				<u> </u>	1
Management Rate of water tarif collection Personnel expenses Shoartage of budget to execute operation & maintenace nitl. 07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc.piil. Change in industry increase factory, Tradingetc.piil. OT-04 Other specimen 18 Geographical condition Town is on flat area with in gently slope at the foot of a hill in the north. 19 Necessary Institution (Facility, Material) Refer to Chapter 4 Table 4.7? 10 Current Water Coverage (%) (by water consumption at faucets) No vater supply facility, (Buy water from Water outer openion) No vater supply facility, (Buy water from Water outer openion) No vater supply facility (Buy water from Water outer openion) 10 Accessibility (A/B/C/D/E) Acc			***************************************		
Personnel expenses nil.		Management	nil.		
Shourtage of budget to execute operation & maintenance 07-03 Other incidental, Special specimen Increase in population to consume water coming from other towns, villages,etc. nil. Change in industry increase factory. Tradingetc. nil. Change in industry increase factory. Tradingetc. nil. 07-04 Other specimen 08 Geographical condition Town is on flat area with in gently slope at the foot of a hill in the north. 19 Necessary Institution (Facility, Material) Refer to Chupter 4 "Table 47." 10 Current Water Coverage (%) (by water consumption at faucets) No vater supply facility (Buy water from Water tanker) Current Water Coverage (%) (by data of water source product) 10 Vater Potential (A /B /C /D /E) Accessibility (A /B /C /D /E) Acc		Rate of water tarrif collection	nil.		
Order incidential, Special specimen Increase in population to consume water Coming from other towns, villagesetc, ail. Change in industry increase factory, Tradingetc, ail. Ord Other specimen Ord Other specimen Order of the property Order of th		Personnel expenses	nil.		
Increase in population to consume water coming from other towns, villagesetc[ml]		Shourtage of budget to execute operation & maintenace	nil.		
Change in industry increase factory, Tradingetc. [nil.] 18		07-03 Other incidential, Special specimen			
Human conflict Chother specimen Chother speci					
07-04 Other specimen 08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on flat area with in gently slope at the foot of a hill in the north. 19 Necessary Institution (Facility, Material) Refer to Chapter 4 Table 4.7? 10 Current Water Coverage (%) (by water consumption at faucets) No water supply facility (Buy water from Water tanker) Current Water Coverage (%) (by data of water source product)) 8 Water Potential (A / B / C / D / E) 10 Water Potential (A / B / C / D / E) 11 Water Potential (A / B / C / D / E) 12 Accessibility (A / B / C / D / E) 13 Accessibility (A / B / C / D / E) 14 Accessibility (A / B / C / D / E) 15 Accessibility (A / B / C / D / E) 16 Access road is Asphalt & Sub grade 48km from Adama) 17 Manpower Capability of Water Supply Management by Water Office point) 18 Degree of urgency (A / B / C / D / E) 19 Refer to Chapter 5 & 7 10 Other Donors, NGO's 10 Other Donors, NGO's 11 Main Ethnic Group 12 Oromo, Ambura 13 Man patients of water born diseases 14 Degree of urgency (A / B / C / D / E) 15 Rew Water Supply Plan 16 Other Donors, NGO's 17 Main Ethnic Group 18 Health conditions 19 Main economic activities in Town 20 Particular comments: 21 Out of the study area. 22 Particular comments: 23 Out of the study area. 44 Geometic Facility and Delection, 1913 189332 24 Memor (Town sketchetc.):		<u> </u>			ļ
Segraphical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			nil.		ļ
Town is on flat area with in gently slope at the foot of a hill in the north. Part		07-04 Other specimen	***************************************		
Town is on flat area with in gently slope at the foot of a hill in the north. Part					
Necessary Institution (Facility, Material) Refer to Chapter 4 Table 4.7"	08)		ļ
Refer to Chapter 4 "Table 4.7" Current Water Coverage (%) (by water consumption at faucets) % No water supply facility (Buy water from Water tanker) % Uwater Potential (A/B/C/D/E) E 2 Accessibility (A/B/C/D/E) A=Aspahal/B=Base CourseC=Sub Grade/D=Outly Dry Scason/E=Not Approached E/E A=Road Width > 6m /B=>34-6m /C=1-3m /D=<1m Access road is Aspahal & Sub grade 48km from Adama (=18+30km from Adama) 0 Access road is Aspahal & Sub grade 48km from Adama (=18+30km from Adama) 0 Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7 15 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's 17 Main Ethnic Group Oromo, Amhara 18 Health conditions		Town is on flat area with in gently slope at the foot of a hill in the north.			
Refer to Chapter 4 "Table 4.7" Current Water Coverage (%) (by water consumption at faucets) % No water supply facility (Buy water from Water tanker) % Uwater Potential (A/B/C/D/E) E 2 Accessibility (A/B/C/D/E) A=Aspahal/B=Base CourseC=Sub Grade/D=Outly Dry Scason/E=Not Approached E/E A=Road Width > 6m /B=>34-6m /C=1-3m /D=<1m Access road is Aspahal & Sub grade 48km from Adama (=18+30km from Adama) 0 Access road is Aspahal & Sub grade 48km from Adama (=18+30km from Adama) 0 Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7 15 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's 17 Main Ethnic Group Oromo, Amhara 18 Health conditions					
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Current Water Coverage (%) (by water consumption at faucets)	09				
Now water supply facility (Buy water from Water tanker) %		Refer to Chapter 4 Table 4.7			
Now water supply facility (Buy water from Water tanker) %					-
Now water supply facility (Buy water from Water tanker) %	10	Current Water Coverage (%) (by water consumption at faucets)		0%	\vdash
Current Water Coverage (%) (by data of water source product)) Water Potential (A / B / C / D / E) Accessibility (A / B / C / D / E) A=Asphalt/B=Base CourseC=Sub Grade/D=Only Dry Season/E=Not Approached	10			/0	
Water Potential (A/B/C/D/E)				%	
Accessibility (A / B / C / D / E) A-asphalvB-Base Course C-Sub Grade D-Only Dry Season E-Not Approached E / E A-Road Width > 6m /B = 33-6m / C= 1-3m / D= <1m					1
Accessibility (A / B / C / D / E) A-asphalvB-Base Course C-Sub Grade D-Only Dry Season E-Not Approached E / E A-Road Width > 6m /B = 33-6m / C= 1-3m / D= <1m	11	Water Potential (A / B / C / D / E)		Е	
A=Road Width > 6m /B=>3-6m / C= 1-3m / D= <1m Access road is Asphalt & Sub grade 48km from Adama. (=18+30km from Adama) Manpower Capability of Water Supply Management by Water Office point) O Particular Comments: Out of the Study Area Water Lander Subyl state of Town administration, 0913189332 Manpower Capability of Water Supply Management by Water Office point) O O O O O O O O O O O O O					
A=Road Width > 6m /B= 33-6m / C= 1-3m / D= <1m Access road is Asphalt & Sub grade 48km from Adama. (=18*30km from Adama) 13 Manpower Capability of Water Supply Management by Water Office point) 14 Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7 15 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's 17 Main Ethnic Group Oromo, Amhara 18 Health conditions -1 Medical facilities in Town Health Center, Private clinic, Drug store -2 Nearest other facilities from Town km 51 -3 Main patients of water born diseases persons / year Mararia 720 Dysenter 250 Typhoid 150 Particular comments: Out of the Study Area Particular comments: Out of the Study Area Mr. Gemechu Edo Dekebo, Minicipality Manager, Mob. 091223766 Mr. Eshetu Fekadu Head of Town administration, 0913189332 Memo (Town sketchetc.):	12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	E/E	
Manpower Capability of Water Supply Management by Water Office point) 14 Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7 15 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's 17 Main Ethnic Group Oromo, Amhara 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Mararia 720 Dysentery 250 Typhoid 150 19 Main economic activities Farming, Trade 20 Particular comments: Out of the Study Area Water tanker supply (sale) drinking water. 21 Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, Minicipality Manager, Mob. 091223766 Mr. Eshetu Fekadu Head of Town administration, 0913189332 Memo (Town sketchetc.):					
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Other Donors, NGO's Main Ethnic Group					
17 Main Ethnic Group Oromo, Amhara					
Health conditions	16	Other Donors, NGO's	***************************************	***************************************	
Health conditions					
Health conditions	17	Main Edwin Comm	O A1		-
-1 Medical facilities in Town	1 /	Iviain Etiniic Group	Oromo, Ami	1ага	
-1 Medical facilities in Town	10	Health conditions			1
-2 Nearest other facilities from Town km 51 -3 Main patients of water born diseases persons / year Mararia 720 Dysentery 250 Typhoid 150 19 Main economic activities Farming, Trade 20 Particular comments: Out of the Study Area ! Water tanker supply (sale) drinking water. 21 Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, Minicipality Manager, Mob. 091223766 Mr. Eshetu Fekadu Head of Town administration, 0913189332 Memo (Town sketchetc.):	10		Hoolth Conto	or Privata alinia Drug etos	
-3 Main patients of water born diseases persons / year Mararia 720 Dysentery 250 Typhoid 150 19 Main economic activities Farming, Trade 20 Particular comments: Out of the Study Area Water tanker supply (sale) drinking water. 21 Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, Minicipality Manager, Mob. 091223766 Mr. Eshetu Fekadu Head of Town administration, 0913189332 Memo (Town sketchetc.):				er, Private Clinic, Drug stor	ie .
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19 Main economic activities Farming, Trade 20 Particular comments: Out of the Study Area Water tanker supply (sale) drinking water. 21 Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, Minicipality Manager, Mob. 091223766 Mr. Eshetu Fekadu Head of Town administration, 0913189332 Memo (Town sketchetc.):					†
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Mr. Gemechu Edo Dekebo, Minicipality Manager, Mob. 091223766 Mr. Eshetu Fekadu Head of Town administration, 0913189332 Memo (Town sketchetc.):					
Memo (Town sketchetc.):			Minicipality N	Manager, Mob. 091223766	4
		Mr. Eshetu Fekadu Head of	Fown adminis	stration, 0913189332	
	Men	o (Town sketchetc.):			

O-37 Doni



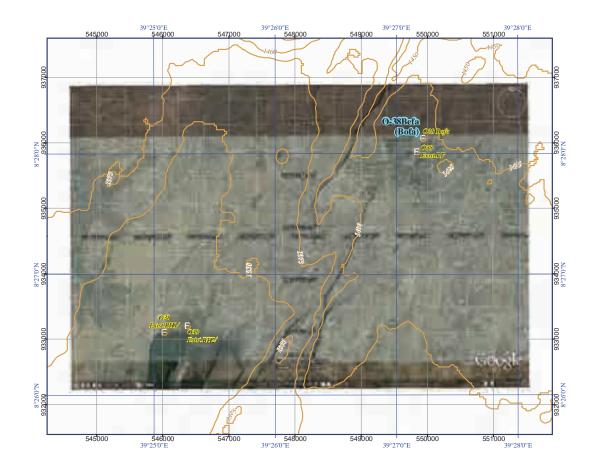
O-38 Befa

Name of small town		D=f= /D+f+	23 /30
	:	Bofa (Befa	<i></i>
Name of Woreda	:	Bosat	OW- 23
Name of Zone	:	East Shew	a OZ- 03
	Profile items		Profile
Population			
Town	male / female / total	by OWRB	3,688 3,352 7,040
Woreda	male / female / total	by Census 2007	not listed not listed not listed
percentage of Town in Wor	reda		#VALUE!
2 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	549838 935954 1,423
Town Status			Town administration
Water Source			DIAM II # 2
04-01 Water source		Type, No.	BH Well * 2nos.
04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield Pump, Gravity	Pump
04-03 Method of water draw 04-04 Pump Spec.		Type, Yield	Motorized pump
04-04 Pump Spec. 04-05 Power source for motorized	d numn	Type, Kva	Commercial Elec. Line
04-06 Durartion of water draw (O		daily hours, time	08:00-12:00, 14:00-17:00 (7hrs/day)
04-07 Water quality	peration nours)	Iron, Fluorideetc.	good
04-08 Other technical specimen		non, raunaeetc.	8
2. 20 Galet Cermical Specifici	Production of the Control of the Con		
Existing Water Supply Facilities			
05-01 Established year		(Gregorian calendar)	1981 / 2003
05-02 Financial of implementation	n	Donor's name	SNNPR / World Vision
05-03 Name of implementation (P			Befa water project
05-04 Intake Type			Well
05-05 Intake No.			2nos.
05-06 Conveyance Type (Water se	ource ~ Reservoir)	Pipe material, length	GIP, 3", 5,200m
05-07 Power to convey		Pressure, Gravity	Pressure
05-08 Water treatment		Disinfection, Ironetc.	nil.
05-09 Water treatment capacity		m3/day	nil.
05-10 Water reserver type		Туре	GR
05-11 Water reserver No.		no.	3nos.
05-12 Water reserver Capacity		m3	50m3*2nos., 25m3*1no.
05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil.
05-14 Power to transmit		Pressure, Gravity	nil. GIP, 2"~1*1/2"~1", 300m
05-15 Distribution Type		Pipe material, length Pressure, Gravity	Gravity Gravity -1 , 300m
05-16 Power to distribute 05-17 Structure Type of water poi	int (Public Equant DE)	RC, Masonry, Pipeetc	
05-17 Structure Type of water point (Pub		no.	7
05-19 Number of faucet at a water			6FC*3PF, 4FC*2PF, 3FC*1PF, 2FC*1PF
05-20 Average of daily water cons			14m3/day
05-21 Number of House Connecti		(11) 1113/day	98
05-22 Average of daily water consum		HC) m3/day	1.5m3/day
05-23 Number of Business Conec			8
05-24 Type of Business Connection		chool, Gov. office, Hospitaletc	Gov.*7, School*1
05-25 Average of daily water consump		, , , , , , , , , , , , , , , , , , , ,	1.5m3/day
05-26 Other technical specimen			
Operation and Maintenace			
06-01 Organization's name			Town water supply service office
<u> </u>		Regional, Zone, Enterpriceetc	Zone
06-02 Type of organization		rtegronar, zone, zmerprice met	12
06-02 Type of organization 06-03 Number of thechnical staff		Trogramm, Zone, Zinerprice	
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica			Pump operation
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta	ff	regions, zone, zmepreemee	4
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial	ff		4 Water meter read, Bill
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff	ff	W.Point, House Connectionetc	4 Water meter read, Bill
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate	iff l staff	W.Point, House Connectionetc	4 Water meter read, Bill W. Point, House connection
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet)	iff l staff	W.Point, House Connectionetc	4 Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection	iff l staff	W.Point, House Connectionetc Birr/L, 20L Birr/m3	Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection	ff I staff	W.Point, House Connectionetc Birr/L, 20L Birr/m3 Birr/m3	4 Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo ditto
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income b	off I staff	W.Point, House Connectionetc Birr/L, 20L Birr/m3 Birr/m3 Birr/month	Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo ditto 29,000birr/month
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts	off I staff	W.Point, House Connectionetc Birr/L, 20L Birr/m3 Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc	4 Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo ditto 29,000birr/month Addis Ababa, Adama
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts	iff I staff by water tariff at T	W.Point, House Connectionetc Birr/L, 20L Birr/m3 Birr/m3 Birr/month fown, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc	4 Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo ditto 29,000birr/month Addis Ababa, Adama Pipes&fittings, Elec. Panel parts
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious re	or water tariff at T repair by Regio	W.Point, House Connectionetc Birr/L, 20L Birr/m3 Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc	4 Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo ditto 29,000birr/month Addis Ababa, Adama Pipes&fittings, Elec. Panel parts Zone
06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technica 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts 06-11 Principal spare parts	or of the state of	W.Point, House Connectionetc Birr/L, 20L Birr/m3 Birr/m3 Birr/month fown, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc	4 Water meter read, Bill W. Point, House connection 0.1birr/20L, 2.65birr/m3 see below memo ditto 29,000birr/month Addis Ababa, Adama Pipes&fittings, Elec. Panel parts Zone Pump burned

O-38 Befa

Problem of actual town water supply 07-01 Technical Water source Quantity, Qualityetc. Shortage water Water supply facility Decrepit, leakage, design failureetc Design failure (pipe line 07-02 Finalcial	
Water supply facility O7-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shourtage of budget to execute operation & maintenace O7-03 Other incidential, Special specimen Increase in population to consume water Change in industry increase factory, Tradingetc. nil. Human conflict O7-04 Other specimen O8 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	
07-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shourtage of budget to execute operation & maintenace O7-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc. mil. Change in industry increase factory, Tradingetc. mil. Human conflict Ethnic, Administrativeetc nil. O7-04 Other specimen O8 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	
Management nil. Rate of water tarrif collection low Personnel expenses nil. Shourtage of budget to execute operation & maintenace Shortage of budget due 07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc nil. Change in industry increase factory, Tradingetc nil. Human conflict Ethnic, Administrativeetc nil. 07-04 Other specimen 08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	to Elec. cost.
Rate of water tarrif collection low Personnel expenses nil. Shourtage of budget to execute operation & maintenace Shortage of budget due 07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc nil. Change in industry increase factory, Tradingetc nil. Human conflict Ethnic, Administrativeetc nil. 07-04 Other specimen OR Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	to Elec. cost.
Personnel expenses Shourtage of budget to execute operation & maintenace O7-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc nil. Change in industry increase factory, Tradingetc nil. Human conflict Ethnic, Administrativeetc nil. O7-04 Other specimen O8 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	to Elec. cost.
Shortage of budget to execute operation & maintenace O7-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc nil. Change in industry increase factory, Tradingetc nil. Human conflict Ethnic, Administrativeetc nil. O7-04 Other specimen O8 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	to Elec. cost.
07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc nil. Change in industry increase factory, Tradingetc nil. Human conflict Ethnic, Administrativeetc nil. 07-04 Other specimen OR Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	to Elec. cost.
Increase in population to consume water coming from other towns, villagesetc nil. Change in industry increase factory, Tradingetc nil. Human conflict Ethnic, Administrativeetc nil. 07-04 Other specimen Ose Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	
Change in industry increase factory, Tradingetc. nil. Human conflict Ethnic, Administrativeetc nil. 07-04 Other specimen OR Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	
Human conflict 07-04 Other specimen 8 Geographical condition Town is on the flat area. Clope on mountaion, bottom of valley, Top of ridgeetc.)	
07-04 Other specimen 08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	
08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.	
Town is on the flat area.	
Town is on the flat area.	
Necessary Institution (Facility, Material)	
Refer to Chapter 4 "Table 4.7"	
10 Compart Water Courses as (9/) (by yeter as	0/
Current Water Coverage (%) (by water consumption at faucets) (??m3*7PF+1.5m3*98HC+1.5m3*8BC)=??m3/day ??m3/20Lpcd.=??persons ??persons/7,040population=??%	%
(?/m3*/PF+1.5m3*98HC+1.5m3*8BC)=?/m3/day ?/m3/20Lpcd.=?/persons ?/persons/,040population=?/% Current Water Coverage (%) (by data of water source product))	%
Current trates Coverage (70) (by data of water source product))	/0
11 Water Potential (A / B / C / D / E)	Е
	-
12 Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not Approached	E/E
A=Road Width > $6m / B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$	
Access road is Asphalt & Sub grade 32km from Adama. (=18+14km from Adama)	
13 Manpower Capability of Water Supply Management by Water Office point)	12
Dgree of urgency (A / B / C / D / E)	
Refer to Chapter 5 & 7	
New Water Supply Plan	
The facility can be designed in an Ethiopian standard, which is not required more advanced technology. The small town	is on the
generally flat terrains, construction work is not difficult.	
16 Other Donors, NGO's	
World Vision	
17 Main Ethnic Group Oromo	
18 Health conditions	
-1 Medical facilities in Town Health Center, Private c	linic, Drug store
-1 Medical facilities in Town Health Center, Private c -2 Nearest other facilities from Town km 35	linic, Drug store
-1 Medical facilities in Town Health Center, Private of the facilities from Town -2 Nearest other facilities from Town km 35 -3 Main patients of water born diseases persons / year Mararia 700	linic, Drug store
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Dysentery -4 Dysentery -4 Dysentery -5 Dysentery -6 Dysentery -6 Dysentery -7 D	linic, Drug store
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Dysentery -3 Typhoid -3 Typho	linic, Drug store
-1 Medical facilities in Town Health Center, Private of the facilities from Town km 35 -3 Main patients of water born diseases persons / year Mararia 700 Dysentery 120 Typhoid 120 others 320	linic, Drug store
-1 Medical facilities in Town Health Center, Private of the facilities from Town km 35 -3 Main patients of water born diseases persons / year Mararia 700 Dysentery 120 Typhoid 120 others 320	linic, Drug store
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -4 Dysentery -5 Dysentery -7 Dysentery -7 Dyphoid -7 Typhoid -7 Typhoid -7 Dyphoid -7 Typhoid -7 T	linic, Drug store
-1 Medical facilities in Town Health Center, Private of the facilities from Town Amount of the facilities from Town Mark of the facilities from Town Amount of the facilities from Town Mark of the facilities from Town Private of the facilities from Town Mark of the facilities from Town Mark of the facilities from Town Mark of the facilities from Town Private of the facilities from Town Mark of the facilities from Town Private of the facilities from Town <td>linic, Drug store</td>	linic, Drug store
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -4 Dysentery -5 Dysentery -7 Dysentery -7 Dyphoid -7 Typhoid -7 Typhoid -7 Dyphoid -7 Typhoid -7 T	linic, Drug store
-1 Medical facilities in Town Health Center, Private of the facilities from Town Amount of the facilities from Town Health Center, Private of the facilities from Town Amount of the facilities from Town Amount of the facilities from Town Amount of the facilities from Town Mararia 700 Dysentery 120 Typhoid 120 Typhoid 120 Others 320 320 Amount of the farming, Trade Typhoid	linic, Drug store
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Persons / year -4 Mararia -5 Mararia -700 -700 -700 -700 -700 -700 -700 -70	linic, Drug store
-1 Medical facilities in Town	linic, Drug store
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -4 Dysentery -5 Dysentery -7 Dysenter	linic, Drug store
-1 Medical facilities in Town	linic, Drug store
-1 Medical facilities in Town	linic, Drug store
-1 Medical facilities in Town	linic, Drug store
-1 Medical facilities in Town	
-1 Medical facilities in Town	rating
-1 Medical facilities in Town	rating
-1 Medical facilities in Town	rating
-1 Medical facilities in Town	rating
-1 Medical facilities in Town	rating
-1 Medical facilities in Town	rating
-1 Medical facilities in Town	rating
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Dysentery -4 Dysentery -5 Dysentery -6 Dysentery -7 Dyshoid	rating
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases -3 Dysentery -4 Dysentery -5 Dysentery -7 Dysonid -7 Dysentery -7 Dysonid -7 Dys	rating

O-38 Befa



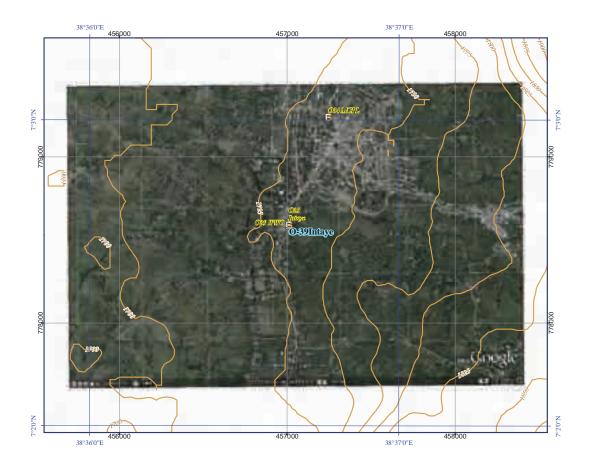
O-39 Intaye

	Oromia Region		24	/30
	Name of small town :	Intaye	0-	39
	Name of Woreda :	Wondo	OW-	22
	Name of Zone :	West Arsi	OZ-	04
	Profile items		Profile	!
01	Population Town male / female / total	by OWRB	4,202 4,298	8,500
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	not listed not listed	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	456917 778457	
	Town Status		Municipally	
04	Water Source			
	04-01 Water source	Type, No. th., Casing Dia., S.W.L, Yield	nil. (from Sheshe Town)	
	04-02 Well spec. Dep 04-03 Method of water draw	tn., Casing Dia., S.W.L, Yield Pump, Gravity	nil.	
	04-04 Pump Spec.	Type, Yield	nil.	
	04-05 Power source for motorized pump	Type, Kva	nil.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	nil.	
	04-07 Water quality	Iron, Fluorideetc.	Not grasped	
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	nil.	
	05-02 Financial of implementation	Donor's name	nil.	
	05-03 Name of implementation (Project name)		nil.	
	05-04 Intake Type		nil.	
	05-05 Intake No.	D:	nil.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	nil. nil.	
	05-07 Power to convey 05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	***************************************
	05-10 Water reserver type	Туре	nil.	
	05-11 Water reserver No.	no.	nil.	
	05-12 Water reserver Capacity	m3	nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type 05-16 Power to distribute	Pipe material, length Pressure, Gravity	Distributed from Sheshe 7 Gravity	lown
	05-17 Structure Type of water point (Public Faucet, PF)		Pipes (1 faucet)	
	05-18 Number of water point (Public Faucet, PF)	no.	1	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	1	
	05-20 Average of daily water consumption at a water point (PF)		Not grasped	
	05-21 Number of House Connection (HC)		nil.	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.	
	05-23 Number of Business Conection (BC)		nil.	
	05-24 Type of Business Connection (BC) Factory, School 05-25 Average of daily water consumption of Business Connection (BC)	ol, Gov. office, Hospitaletc.		
	05-26 Other technical specimen	m3/day	nil.	
	03-20 Other technical specimen		•	
06	Operation and Maintenace			
	06-01 Organization's name		nil.	
		gional, Zone, Enterpriceetc.		
	06-03 Number of thechnical staff		nil.	
	06-04 Principal works of technical staff 06-05 Number of the financial staff		nil.	
	06-06 Principal works of financial staff		nil.	
		Point, House Connectionetc.		
	06-08 Water tariff rate		•••••••••••••••••••••••••••••••••••••••	
	Water point (Public faucet)	Birr/L, 20L	nil.	
	House connection	Birr/m3	nil.	
	Business connection	Birr/m3	nil.	
	06-09 Average monthly income by water tariff	Birr/month	nil.	
		, Zonal Cap. Reg. Capetc.		
		l filter, Fuel filter, Pipesetc office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	omee, riivate companyetc	nil.	
l		anization, Gov., Donorsetc.		
	06-15 Other technical specimen	, , , , , , , , , , , , , , , , , , , ,		
			•	

O-39 Intaye

07	Problem of actual town water supply			
	07-01 Technical Water source Quantity, Qualityetc.	Not grasped		
	Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial	•••••••••••••••••••••••••••••••••••••••		
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses Shourtage of budget to execute operation & maintenace	Not grasped No budget		
	07-03 Other incidential, Special specimen	140 budget		
	Increase in population to consume water coming from other towns, villagesetc	Coming fron	ı towns	
	Change in industry increase factory, Tradingetc.			ļ
	Human conflict Ethnic, Administrativeetc	Often		!
	07-04 Other specimen			-
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town is on the flat area.			
				_
09	Necessary Institution (Facility, Material)			
0)	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		%	
	Current Water Coverage (%) (by data of water source product))		%	_
	Current water coverage (10) (b) tata of water source product/)		/0	
11	Water Potential (A / B / C / D / E)		С	
			7.7	
12	Accessibility $(A/B/C/D/E)$ A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not A=Road Width > $6m/B= > 3\sim 6m/C= 1\sim 3m/D= < 1m$	Approached	B / B	_
	Access road is Asphalt & Sub-grade 26km from Awasa. (=8+18km from Awasa)			
13	Manpower Capability of Water Supply Management by Water Office point)		1	
1.4	D ((A/D/G/D/F)			
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7			-
	Refer to Chapter 3 & 7			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec			
	troubles, conflicts with neighborhoods for development of water sources. The small town is or work is not difficult.	the generally	gentle hills, construction	1
16	Other Donors, NGO's			1
17	Main Ethnic Group	Oromo		-
18	Health conditions			1
	-1 Medical facilities in Town	Health Cente	r, Drug store, Health pos	t
	-2 Nearest other facilities from Town km	27		
	-3 Main patients of water born diseases persons / year	Mararia	1,998	-
		Dysentery Typhoid	968 500	
		Diarrhea	200	
		Cholera	20	
		others	700	
19	Main economic activities	Farming, Tra	de	
20	Particular comments :			+
	Water is distributed from sheshe town and adminstered by that community. Hence there is no s	ource or facil	ity managed Intaye town.	_
	This small town is a priority of tranquility for public safety.			
21	Demostra .			-
21	Remarks: Access is base cource for asphalt pavement. (Gravel road)			
	1 ceess is base course for aspirate parenient. (Olaver road)		the state of the s	
L	Mr. Abdulwahid Gemeda water supply & sanitation Exper	t Mob. 09135	05953	
Men	no (Town sketchetc.):			
	-			
	-			
	•			
	-			
	-			
	_			
	•			

O-39 Intaye



O-40 Kabate

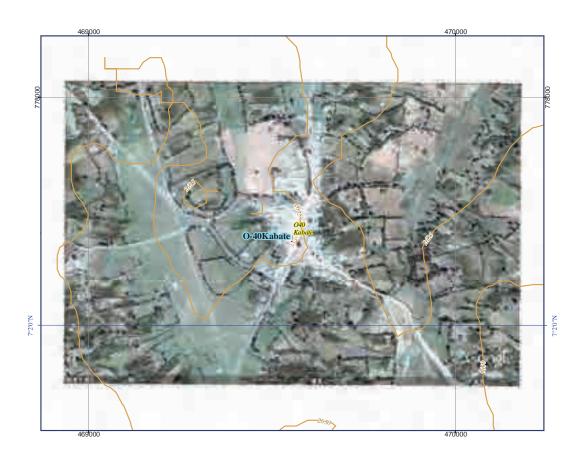
—	Oromia Region				25 /30	
	Name of small town		Kabate		O- 40	
	Name of Woreda	:	Kofele		OW- 08	
	Name of Zone	:	West Arsi	l	OZ- 04	
0.1	n 11				Profile	
01	Population		h OWDD	2.042	2.104	4 146
	Town Woreda	male / female / total male / female / total	by OWRB by Census 2007	2,042 90,000	, -	4,146 9,508
	percentage of Town in Wor		by Census 2007	90,000		2.3%
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	469466	777475	?
03	Town Status			Town administra	ation	
04	Water Source					
	04-01 Water source		Type, No.		. (1/2 not function	n)
	04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield		n, ??L/sec.	
	04-03 Method of water draw 04-04 Pump Spec.		Pump, Gravity Type, Yield	Pump Hand Pump		
	04-04 Pump Spec.	d numn	Type, Kva	Manual		
	04-06 Durartion of water draw (O		daily hours, time	24hrs.		
	04-07 Water quality	F	Iron, Fluorideetc.	Not Grasped		
	04-08 Other technical specimen					
	Existing Water Supply Facilities					
	05-01 Established year		(Gregorian calendar)	2005		
	05-02 Financial of implementation		Donor's name	Not Grasped	ntor cumply meo!	
	05-03 Name of implementation (F 05-04 Intake Type	тојест пате)		Well (Hand dug	ater supply projec	l .
	05-04 Intake Type			2nos. (1 not fun		
	05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	nil.	etiony	
	05-07 Power to convey		Pressure, Gravity	nil.		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Туре	nil.		
	05-11 Water reserver No.		no.	nil.		
	05-12 Water reserver Capacity 05-13 Transmission Type (Booste		m3	nil.		
	05-14 Power to transmit	er pump Sm. ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.		
	05-15 Distribution Type		Pipe material, length	nil.		
	05-16 Power to distribute		Pressure, Gravity	nil.		
	05-17 Structure Type of water poi	int (Public Faucet, PF)	RC, Masonry, Pipeetc			
	05-18 Number of water point (Pul		no.	(Hand Pump 1/2	function)	
	05-19 Number of faucet at a water			nil.		
	05-20 Average of daily water con		(PF) m3/day	Not Grasped		
	05-21 Number of House Connecti 05-22 Average of daily water consum		HC) 2/1	nil.		
	05-22 Average of daily water consult 05-23 Number of Business Conec		(HC) m3/day	nil.		
	05-24 Type of Business Connection		School, Gov. office, Hospitaletc			
	05-25 Average of daily water consum			nil.		
	05-26 Other technical specimen	1				
	Operation and Maintenace					
	06-01 Organization's name			Water committe		
	06-02 Type of organization		Regional, Zone, Enterpriceetc		ed organization	
	06-03 Number of thechnical staff			0&M		
	06-04 Principal works of technica 06-05 Number of the financial sta			nil.		
	06-06 Principal works of financia			nil.		
	06-07 Categories of water tariff		W.Point, House Connectionetc			
	06-08 Water tariff rate					
	Water point (Public faucet)	<u> </u>	Birr/L, 20L	Free		
	House connection		Birr/m3	nil.		
	Business connection	***************************************	Birr/m3	nil.		
	06-09 Average monthly income b		Birr/month	nil.		
	06-10 Procurement of spare parts 06-11 Principal spare parts	at 1	Fown, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc		3	
	OO-11 HIHOIPAI SPAIC PAILS		onal office, Private companyetc		,	
		enair hy Regio				
	06-12 Method in case of serious r		onar office, Fitvate companyeu	Handpump brok	en	
		h 5-10 years	Organization, Gov., Donorsetc	Handpump brok		

O-40 Kabate

	7 7.1.2	カロー アカラウィードロックロー	, , , , ,		
07	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorta		ļ
	Water supply facility	Decrepit, leakage, design failureet	It is not cove	red for whole residence.	
	07-02 Finalcial		N. G. I		
	Management		Not Grasped		
	Rate of water tarrif collection		Not Grasped		
	Personnel expenses Shourtage of budget to execute operation &	maintanaga	Not Grasped Not Grasped		
	07-03 Other incidential, Special specimen	mamenace	Not Grasped		
	Increase in population to consume water	coming from other towns, villageset	nil		-
	Change in industry	increase factory, Tradingetc			
	Human conflict	Ethnic, Administrativeete			
	07-04 Other specimen				
08	Geographical condition (Slope on moun	taion, bottom of valley, Top of ridgeetc	.)		
	Town is on flat area with in gently slope at the foo	t of a hill in the north.			
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
10	Current Water Coverage (%) (by water consumpti	on at faucets)		7 %	+
1.0	6m3day*1PF(HP)/0.02/4146persons=7.23%			7 /0	
	Current Water Coverage (%) (by data of water sou	irce product))		%	†
					1
11	Water Potential (A / B / C / D / E)			В	
12		se Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B / B	ļ <u> </u>
		$n > 6m / B = > 3 \sim 6m / C = 1 \sim 3m / D = <1m$			
10	Access is Asphalt & Sub grade (Only dry season)		Sheshemane)	0	
13	Manpower Capability of Water Supply Manageme	ent by Water Office point)		8	
14	Dgree of urgency (A / B / C / D / E)				
1.	Refer to Chapter 5 & 7				

15	New Water Supply Plan				
	The facility can be designed in an Ethiopian standa	ard which is not required more advanced to	chnology The	emall town is on the	
	generally flat terrains, construction work is not diff		emology. The	Sinan town is on the	
	•				
16	Other Donors, NGO's Ethiopian Red Cross				
	Eunopian Red Cross				
17	Main Ethnic Group		Oromo		
	f				
18	Health conditions				
	-1 Medical facilities in Town		Health post		
	-2 Nearest other facilities from Town	km	50		
	-3 Main patients of water born diseases	persons / year	Dysentery	700	
			Diarrhea	500	ļ
10	Main aganamia activities		Typhoid	432	1
19	Main economic activities		Trade, Farmi	iig	
20	Particular comments :				
	additional 15 Hand dug wells are under construction	on by Ethiopian Red Cross Shashemene bre	anch of which	4 dug wells digging to	
	water levele completed and water found. The two	2 1		0 00 0	re
	located at the market place constructed by Arebs				
21	Remarks:				
	One of two Hand-pump is out of order due to low			ter supply facilities are	
	insufficient for the population of the town. Hence,				ļ
_	Mr. Feyisa Kebeto Water committee membe	er Mr. Jemal Hasen Beneficary	Mob. 091043	5748	1
Men	no (Town sketchetc.):				
ļ	-				
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O-40 Kabate



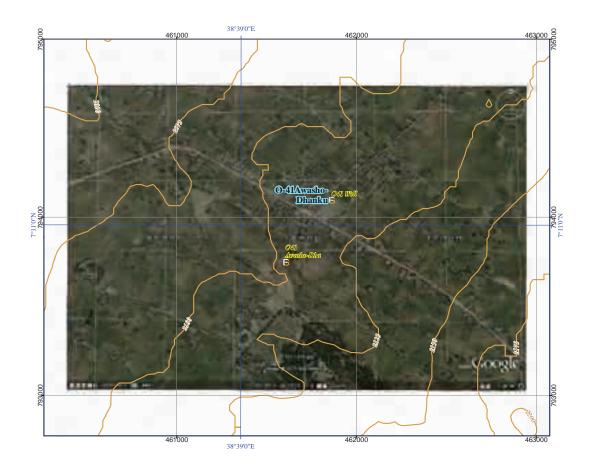
O-41 Awasho-Dhanku

	Oromia Region		26	6 /30
	Name of small town :	Awasho-Dhar		- 41
	Name of Woreda :	Shesheman	e OW	- 14
	Name of Zone :	West Arsi		- 04
	Profile items	1100171101	Profile	1
01	Population			
	Town male / female / total Woreda male / female / total percentage of Town in Woreda	by OWRB by Census 2007	3,488 3,555 123,667 124,355	, , , , , , , , , , , , , , , , , , ,
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	461770 79396	
	Town Status		Kebele Association	
	Water Source			
	04-01 Water source	Type, No.	BH *1no. (Drilling comp	
	04-02 Well spec. Dep 04-03 Method of water draw	oth., Casing Dia., S.W.L, Yield	GL-160m / Dia.6" / SWI nil.	L ???m
	04-04 Pump Spec.	Pump, Gravity Type, Yield	nil.	
	04-05 Power source for motorized pump	Type, Kva	nil.	***************************************
	04-06 Durartion of water draw (Operation hours)	daily hours, time	not operation	
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen			
	Existing Water Supply Facilities	//	N. 2010 (2.1 TY)	
	05-01 Established year	(Gregorian calendar)	Nov. 2010 (Only Well co	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	NGO (Day Saint Chariti- unknown	es)
	05-03 Name of implementation (Project name)		Well (BH only)	
	05-04 Intake No.		lno.	***************************************
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.	
	05-07 Power to convey	Pressure, Gravity	nil.	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Туре	nil.	
	05-11 Water reserver No.	no.	(1no. under Design)	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	m3 Pipe material, length	nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	nil.	
	05-16 Power to distribute	Pressure, Gravity	nil.	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	nil.	
	05-18 Number of water point (Public Faucet, PF)	no.	(5nos. under Design)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	nil.	
	05-20 Average of daily water consumption at a water point (PF)) m3/day	nil.	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC)	m2/dox	nil. nil.	
	05-23 Number of Business Conection (BC)	m3/day	nil.	
	` /	ol, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection (BC)		nil.	***************************************
	05-26 Other technical specimen			
	Operation and Maintenace			
	06-01 Organization's name 06-02 Type of organization Re	orional Zor- E-t-	nil.	
	06-02 Type of organization Re 06-03 Number of thechnical staff	egional, Zone, Enterpriceetc.	nil.	
	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		nil.	***************************************
	06-06 Principal works of financial staff		nil.	
		Point, House Connectionetc.		
	06-08 Water tariff rate			
	Water point (Public faucet)	Birr/L, 20L	(0.2birr/20L under Desig	gn
	House connection	Birr/m3	nil.	
	Business connection	Birr/m3	nil.	
1	06-09 Average monthly income by water tariff	Birr/month	nil.	
		n, Zonal Cap. Reg. Capetc. il filter, Fuel filter, Pipesetc		
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		nil.	
		anization, Gov., Donorsetc.	nil.	
	06-15 Other technical specimen			
l				

O-41 Awasho-Dhanku

07	D., bl f - to - l to			1
07	Problem of actual town water supply 07-01 Technical			
		Not grasped		
	Water source Quantity, Qualityetc. Water supply facility Decrepit, leakage, design failureetr			
	07-02 Finalcial	Two grasped		
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	Not grasped		
	Shourtage of budget to execute operation & maintenace	Not grasped		
	07-03 Other incidential, Special specimen	Not grasped		
	Increase in population to consume water coming from other towns, villageseto	aomina from	other villages	
	Change in industry increase factory, Tradingetc		omer vinages	
	Human conflict Ethnic, Administrativeetc			
	07-04 Other specimen	11111.		
	07-04 Other specimen			
U8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
00	Town: Flat area	,		
	10wii . 1 lut utcu			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		%	
	Current Water Coverage (%) (by data of water source product))		%	
L				
11	Water Potential (A/B/C/D/E)			
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	A / A	
	A=Road Width > $6m / B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	Access road is Asphalt 6km from Sheshemane. * Refer to Chapter 5 "Table 5-7: Categories of	f accessibility		
13	Manpower Capability of Water Supply Management by Water Office (point)		9	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
1.5	M. W. C. I. DI			
15	New Water Supply Plan			
15	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tea	chnology. The	small town is on the	
15		chnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, construction work is not difficult.	chnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's	chnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, construction work is not difficult.	chnology. The	small town is on the	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6	Chnology. The	small town is on the	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's		small town is on the	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6		small town is on the	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group			
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	Oromo	c, Drug store	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Private clinic	c, Drug store	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	Oromo Private clinic	e, Drug store	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	Oromo Private clinic 11 Dysentery	c, Drug store	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	Oromo Private clinic 11 Dysentery Diarrhea	e, Drug store 801 400	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	Oromo Private clinic 11 Dysentery Diarrhea Typhoid	801 400 350	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria	801 400 350	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design.	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design.	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Residence has been using river water with alum sulfate and chlorine with water bag which are One well has construted by NGO on 2010. Other water supply facility is pending to design. Remarks:	Oromo Private clinic 11 Dysentery Diarrhea Typhoid Malaria Farming	801 400 350 150	

O-41 Awasho-Dhanku



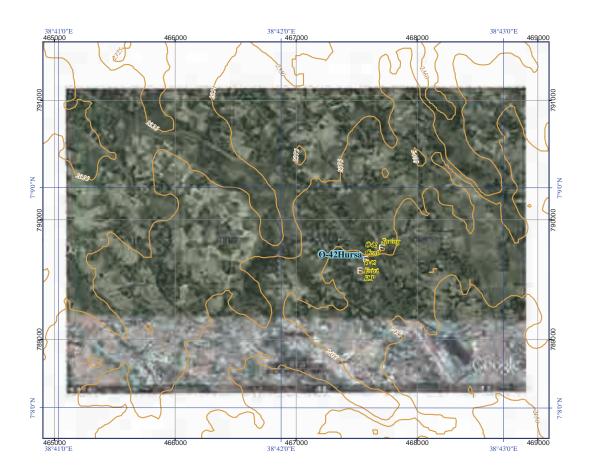
O-42 Hursa

Name of small town			27 /30
		Hursa	O- 42
Name of Woreda	:	Sheshemar	ne OW- 14
Name of Zone	•	West Arsi	OZ- 04
	Profile items		Profile
Population			
Town	male / female / total	by OWRB	2,790 2,910 5,700
Woreda	male / female / total	by Census 2007	123,667 124,355 248,022
percentage of Town in Wor			2.3%
Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	467482 789539 2,395 Kebele administration
Town Status Water Source			Rebeie administration
04-01 Water source		Type, No.	Well*1no. / Spring*1no. (not function)
04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield	
04-03 Method of water draw		Pump, Gravity	Hand pump / On-spot spring
04-04 Pump Spec.		Type, Yield	Manual / Gravity
04-05 Power source for motorized	d pump	Type, Kva	nil. / nil.
04-06 Durartion of water draw (O	peration hours)	daily hours, time	40L/house Hand pump / not function
04-07 Water quality		Iron, Fluorideetc.	good (well) / abandon
04-08 Other technical specimen			
Existing Water Supply Facilities		(Crogo::1- 1)	2008 (Hand a) / 2001 (G
05-01 Established year 05-02 Financial of implementatio	n	(Gregorian calendar) Donor's name	2008 (Hand pump) / 2001 (Spring) NGO (LVI) with EU / OWRB
05-02 Financial of Implementation (I		DOIIOI 8 Haffle	Hursa Hand Dug Well Project / unknown
05-04 Intake Type	roject name)		Hand Dug Well / Spring
05-05 Intake No.			1 / 1
05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	nil.
05-07 Power to convey		Pressure, Gravity	nil.
05-08 Water treatment		Disinfection, Ironetc.	nil.
05-09 Water treatment capacity		m3/day	nil.
05-10 Water reserver type		Туре	nil.
05-11 Water reserver No.		no.	nil.
05-12 Water reserver Capacity		m3	nil.
05-13 Transmission Type (Booste	er pump Stn. ~ Reservoir)	Pipe material, length	nil.
05-14 Power to transmit		Pressure, Gravity	nil.
05-15 Distribution Type 05-16 Power to distribute		Pipe material, length Pressure, Gravity	nii.
05-17 Structure Type of water po	int (Public Faucet PF)	RC, Masonry, Pipeetc	
05-18 Number of water point (Pu		no.	nil.
05-19 Number of faucet at a wate			nil.
05-20 Average of daily water con			4m3/day (20L*200 times) by HP
05-21 Number of House Connecti	ion (HC)		nil.
05-22 Average of daily water consur		HC) m3/day	nil.
05-23 Number of Business Conec			nil.
05-24 Type of Business Connecti		school, Gov. office, Hospitaletc	
05-25 Average of daily water consum	ption of Business Connection	(BC) m3/day	nil.
05-26 Other technical specimen			nil.
Operation and Maintanasa			
Operation and Maintenace 06-01 Organization's name			Water committee
06-02 Type of organization		Regional, Zone, Enterpriceetc	
06-03 Number of thechnical staff			1
06-04 Principal works of technical			Repair of Hand Pump
06-05 Number of the financial sta			6
06-06 Principal works of financia			Money correction
06-07 Categories of water tariff		W.Point, House Connectionetc	. 1 (Hand Pump)
06-08 Water tariff rate			
)	Birr/L, 20L	2.0 birr / house / month (for HP)
Water point (Public faucet)		Birr/m3	nil.
Water point (Public faucet) House connection		Birr/m3	nil.
Water point (Public faucet) House connection Business connection			200 1:/
Water point (Public faucet) House connection Business connection 06-09 Average monthly income b		Birr/month	200 birr/month (for HP) / Free (Spring)
Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts		Birr/month Fown, Zonal Cap. Reg. Capetc	nil.
Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts 06-11 Principal spare parts	at 7	Birr/month Town, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc	nil.
Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious r	at T	Birr/month Fown, Zonal Cap. Reg. Capetc	nil. nil. Woreda Water Office
Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious r 06-13 Principal serious repair wit	at Trepair by Regin b	Birr/month Town, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc onal office, Private companyetc	nil. nil. Woreda Water Office nil.
Water point (Public faucet) House connection Business connection 06-09 Average monthly income b 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious r	at Trepair by Regin b	Birr/month Town, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc	nil. nil. Woreda Water Office nil.

O-42 Hursa

07	Problem of actual town water supply			
0,	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wat	ter	
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		
	07-02 Finalcial		_	
	Management		ed manpower	
	Rate of water tarrif collection	Not grasped Not grasped		
	Personnel expenses Shourtage of budget to execute operation & maintenace	Not grasped Not grasped		
	07-03 Other incidential, Special specimen	140t grasped		
	Increase in population to consume water coming from other towns, villagesetc	Increasing ho	ouse hold (50 to 100)	
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other specimen	***************************************		
00	Constitution (Classes and the best of collection of collec			-
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town: Flat area)		
	10wii . 1 lat alca			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	C (W) (C (O) (A ((((((((((((((((((2.50/	_
10	Current Water Coverage (%) (by water consumption at faucets) (4m3*1PF+0m3*0HC+0m3*0BC)=4m3/day 4m3/20Lpcd.= 200persons 200persons / 5700	nonulation -	3.5%	
	Current Water Coverage (%) (by data of water source product))	, рориганоп =	3.5%	
	(4m3*1PF+0m3*0HC+0m3*0BC)=4m3/day 4m3/20Lpcd.= 200persons 200persons / 5700	population =		-
11	Water Potential (A / B / C / D / E)	1 1	В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A / A	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
10	Access road is Asphalt 13km from Sheshemane. * Refer to Chapter 5 "Table 5-7: Categories of the Chapter 5 "Table 5-7: Categories of the Chapter 5" Table 5-7: Categori	f accessibility		
13	Manpower Capability of Water Supply Management by Water Office point)		10	
14	Dgree of urgency (A / B / C / D / E)			
1.	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec			
		hnology. The	small town is on the	
	generally flat terrains, construction work is not difficult.	hnology. The	small town is on the	
16		hnology. The	small town is on the	
16	Other Donors, NGO's	hnology. The	small town is on the	
16		hnology. The	small town is on the	
	Other Donors, NGO's	hnology. The Oromo	small town is on the	
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group		small town is on the	
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	Oromo		
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Private clinic	small town is on the	st
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Private clinic 23	e, Drug store, Health pos	st
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Private clinic 23 Dysentery	c, Drug store, Health por	st
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Private clinic 23 Dysentery Diarrhea	e, Drug store, Health pos	St
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Private clinic 23 Dysentery	c, Drug store, Health pos 2,000 500	st
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Oromo Private clinic 23 Dysentery Diarrhea Typhoid	2,000 500 500	st
17 18	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others	2,000 500 500	St
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments :	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others	2,000 500 500	St
17 18	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: NGO (LVI = Lay Volunteers Internation Association)	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	
17 18	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: NGO (LVI = Lay Volunteers Internation Association) One spring water source is not able to use due to dry up. Other water source (one Hand-pump)	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	
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O-42 Hursa



O-43 Hidi-Lola

	Oromia Region			28 /30	
	Name of small town	:	Hidi-Lola		
	Name of Woreda	:	Mijo (Miyo) OW- 22	
	Name of Zone		Borena	OZ- 02	
		Profile items		Profile	!
01	Population				
	Town	male / female / total	by OWRB	3,200 3,350 6,550	
	Woreda percentage of Town in Word	male / female / total	by Census 2007	not listed not listed not listed #VALUE!	
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	453259 413542 1,362	
	Town Status	C 1111 (Fidindali)	Easting / Horting / The.	Municipally	
04	Water Source				
	04-01 Water source		Type, No.	Well, Shallow Well*5nos.	
	04-02 Well spec.		Depth., Casing Dia., S.W.L, Yiel		
	04-03 Method of water draw 04-04 Pump Spec.		Pump, Gravity Type, Yield	Pump Motorized pump, Manual	
	04-05 Power source for motorized	numn	Type, Kva	(Generator)	
	04-06 Durartion of water draw (Or		daily hours, time	(14hrs//day or more)	
	04-07 Water quality		Iron, Fluorideetc.	Hardness	!
	04-08 Other technical specimen				
)5	Existing Water Supply Facilities				
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar)	Not grasped	ļ
	05-02 Financial of implementation (P		Donor's name	Not grasped Not grasped (Private)	
	05-04 Intake Type	roject name)		Well, Shallow Well*5nos.	
	05-05 Intake No.			Well*1no., Handdug wells*5nos.	
	05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	GIP, 2*1/2", 6,000m, Nil (Handbug)	
	05-07 Power to convey		Pressure, Gravity	(Pressure)	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type 05-11 Water reserver No.		Туре	GR (Not operation) 1no.	
	05-11 Water reserver No.		no. m3	100m3	
	05-13 Transmission Type (Booster	r pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit		Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	See below memo (Not operation)	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water poin		RC, Masonry, Pipeetc		ļ
	05-18 Number of water point (Pub 05-19 Number of faucet at a water		no.	5	
	05-20 Average of daily water cons			Not grasped (Not operation)	
	05-21 Number of House Connection		1) 1113/044	nil.	
	05-22 Average of daily water consum	ption of House Connection(H	C) m3/day	nil.	
	05-23 Number of Business Conect			nil.	
	05-24 Type of Business Connection		hool, Gov. office, Hospitaletc		
	05-25 Average of daily water consump	tion of Business Connection (E	BC) m3/day	nil.	
	05-26 Other technical specimen				
)6	Operation and Maintenace				\vdash
_	06-01 Organization's name			Private	
	06-02 Type of organization		Regional, Zone, Enterpriceetc	ditto	
	06-03 Number of thechnical staff			5	
	06-04 Principal works of technical			Well cleaning (Hand dug wells)	
	06-05 Number of the financial staf 06-06 Principal works of financial			5 Westerneele	
	06-06 Principal works of financial 06-07 Categories of water tariff		W.Point, House Connectionetc	Water sale W. Point	ļ
	06-08 Water tariff rate		, om, mouse connectionetc		ļ
	Water point (Public faucet)		Birr/L, 20L	0.5birr/20L	
	House connection		Birr/m3	nil.	
	Business connection		Birr/m3	nil.	
	<u> </u>		Birr/month	Not grasped	
	06-09 Average monthly income by				l
	06-09 Average monthly income by 06-10 Procurement of spare parts	at To	wn, Zonal Cap. Reg. Capetc		
	06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts	at To	Oil filter, Fuel filter, Pipeset	c nil.	
	06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious re	at To epair by Region		c nil. c Private	
	06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious re 06-13 Principal serious repair with	epair by Region n 5-10 years	Oil filter, Fuel filter, Pipeset nal office, Private companyet	c nil. c Private Not grasped	
	06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious re	epair by Region n 5-10 years	Oil filter, Fuel filter, Pipeset	c nil. c Private Not grasped	

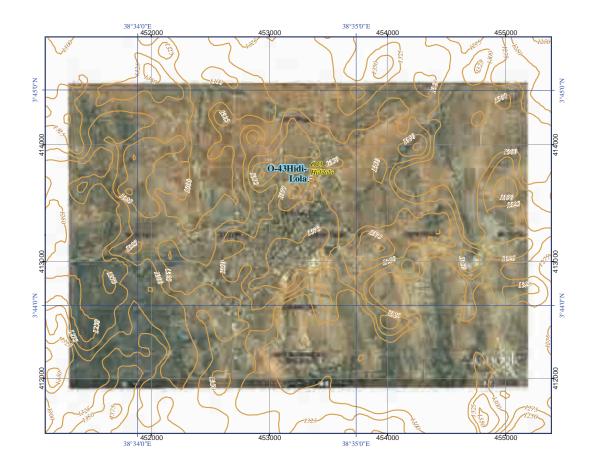
O-43 Hidi-Lola

	Problem of actual town water supply				
ŀ	07-01 Technical				
1	Water source Quantity, Q	ualityetc.	Water quality	(Hardness)	
Ī	Water supply facility Decrepit, leakage, de	sign failureetc	Not operation	n due to water quality	
	07-02 Finalcial				
	Management		Not grasped		
	Rate of water tarrif collection		Not grasped		
	Personnel expenses		Not grasped		
-	Shourtage of budget to execute operation & maintenace		Not grasped		
ľ	07-03 Other incidential, Special specimen Increase in population to consume water coming from other tow	:114-	In amanain a C	or, omployees	
ŀ		ry, Tradingetc.		ov. employees	
-		ninistrativeetc		nt)	!
ŀ	07-04 Other specimen	iiiiistrativeetc	ini. (at presei	11)	
ŀ	07-04 Other specimen				
08	Geographical condition (Slope on mountaion, bottom of valley, To	op of ridgeetc.)			
	Town is on the slope of mountain & flat area.	<u> </u>			
Ī					
	Necessary Institution (Facility, Material)				
	New water source (Well) and pipe netwok (replaced pipes)				
	Refer to Chapter 4 "Table 4.7"		***************************************		
10				22.11	
	Current Water Coverage (%) (by data of consumption at faucet)			23 %	
	6m3day*5PF(HP)/0.02/6550 Current Water Coverage (%) (by water product at wells and/or springs)			Ω/	
		90population=??9	6	%	
	Water Potential $(A/B/C/D/E)$	opopulation=: !7		E	+
. 1					
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Onl	y Dry Season/E=Not	Approached	E/E	
Ì	A=Road Width > 6 m $/$ B= > 3 ~6m $/$ C= 1~	3m / D= <1m			
Ì	Access road is Base course and Sub Grade 145km from Yabello, 340km from	n Dila.			
13	Manpower Capability of Water Supply Management by Water Office point)			5	

	Dgree of urgency (A / B / C / D / E)				_
-	Refer to Chapter 5 & 7	***************************************			
1.5	N. W. G. I Di				
	New Water Supply Plan		l Th	:-1£	
	The facility can be designed in an Ethiopian standard, which is not required n troubles, conflicts with neighborhoods for development of water sources. The				i
	work is not difficult.	Siliali towii is oi	i tile generally	mai terrams, constructi	1011
_	Other Donors, NGO's				
1	nil.				
Ì					
17	Main Ethnic Group		Oromo		
18	Health conditions				
	-1 Medical facilities in Town			r, Private clinic	
ļ	-2 Nearest other facilities from Town km		90		
	-3 Main patients of water born diseases persons / ye	ear	Mararia	3,000	
- 1				2 400	
10	Main annual astinition		Dysentery	2,400	
19	Main economic activities		Dysentery Farming, Liv		

20	Particular comments :	ality (hard water)			1
20			Farming, Liv	estock	!
20	Particular comments : Existing facility is not operated by the community's decision due to water que		Farming, Liv	estock	!
20	Particular comments: Existing facility is not operated by the community's decision due to water query Pump & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks:	for other well (go	Farming, Liv	estock lity)	!
20	Particular comments: Existing facility is not operated by the community's decision due to water querous & Generator of above facility were replaced to other village (Dikicha). Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I	for other well (go	Farming, Liver on the second water quantation of Mob. 0	estock lity) 913842331	!
20	Particular comments: Existing facility is not operated by the community's decision due to water quelling to the pump & Generator of above facility were replaced to other village (Dikicha). Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I Out of the study area. Ato Wondu	for other well (go Kere CPP Coordin Adem electro me	pod water qua mator Mob. 0 echanic 0912	estock lity) 913842331 25044	1
20	Particular comments: Existing facility is not operated by the community's decision due to water quelling Pump & Generator of above facility were replaced to other village (Dikicha). Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I. Out of the study area. Ato Wondu. Ato Mitiku	for other well (go Kere CPP Coordin Adem electro me	pod water qua mator Mob. 0 echanic 0912	estock lity) 913842331	!
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20 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querum & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. Out of the study area. Ato Wondu Ato Mitiku o (Town sketchetc.):	for other well (go Kere CPP Coordin Adem electro me	pod water qua mator Mob. 0 echanic 0912	estock lity) 913842331 25044	!
20 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querump & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I Out of the study area. Ato Wondu Ato Mitiku o (Town sketchetc.):	for other well (go Kere CPP Coordin Adem electro me	pod water qua mator Mob. 0 echanic 0912	913842331 25044 obile 09100877915	!
20 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querump & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare of the Study area. Ato Wondu Ato Mitiku oo (Town sketchetc.): 04-02 Well spec. Well; Estbsh on ?? GL-??m / ??" / SWL GL-??m / ??L/sec.	for other well (go Kere CPP Coordi Adem electro mo Gemechu irregati	pod water qua mator Mob. 0 echanic 0912	913842331 .25044 obile 09100877915 Motorised Pump	!
20 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querump & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I Out of the study area. Ato Wondu Ato Mitiku o (Town sketchetc.):	for other well (go Kere CPP Coordi Adem electro mo Gemechu irregati	pod water qua nator Mob. 0 echanic 0912	913842331 25044 obile 09100877915	!
20 21 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water quelling pump & Generator of above facility were replaced to other village (Dikicha). Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare in Mijo (Mijo (Miyo) woreda has been established on 2007. W/rt Mare in Mijo (Mijo (Mi	for other well (go Kere CPP Coordi Adem electro mo Gemechu irregati	pod water qua nator Mob. 0 echanic 0912	913842331 .25044 obile 09100877915 Motorised Pump	!
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20 21 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querum & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I Out of the study area. Ato Wondu Ato Mitiku o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on ?? GL-??m / ??" / SWL GL-??m / ??L/sec. Well; Estbsh on ?? GL-3-5m / nil. / SWL GL-3-4m / ??L/sec. 05-15 Distribution Type (GIP) 2*1/2" = 1,812m 2"= 500m	for other well (go Kere CPP Coordin Adem electro m Gemechu irregati ec.	pod water qua nator Mob. 0 echanic 0912	913842331 .25044 obile 09100877915 Motorised Pump	
20 21 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querum & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I Out of the study area. Ato Wondu Ato Mitiku o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on ?? GL-??m / ??" / SWL GL-??m / ??L/sec. Well; Estbsh on ?? GL-3-5m / nil. / SWL GL-3-4m / ??L/sec. 05-15 Distribution Type (GIP) 2*1/2" = 1,812m 2"= 500m	for other well (go Kere CPP Coordin Adem electro m Gemechu irregati ec.	pod water qua nator Mob. 0 echanic 0912	913842331 .25044 obile 09100877915 Motorised Pump	
20 21 21 Mem	Particular comments: Existing facility is not operated by the community's decision due to water querum & Generator of above facility were replaced to other village (Dikicha) Town is located at out of Study area. Remarks: Mijo (Miyo) woreda has been established on 2007. W/rt Mare I Out of the study area. Ato Wondu Ato Mitiku o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on ?? GL-??m / ??" / SWL GL-??m / ??L/sec. Well; Estbsh on ?? GL-3-5m / nil. / SWL GL-3-4m / ??L/sec. 05-15 Distribution Type (GIP) 2*1/2" = 1,812m 2"= 500m	for other well (go Kere CPP Coordin Adem electro m Gemechu irregati ec.	pod water qua nator Mob. 0 echanic 0912	913842331 .25044 obile 09100877915 Motorised Pump	

O-43 Hidi-Lola



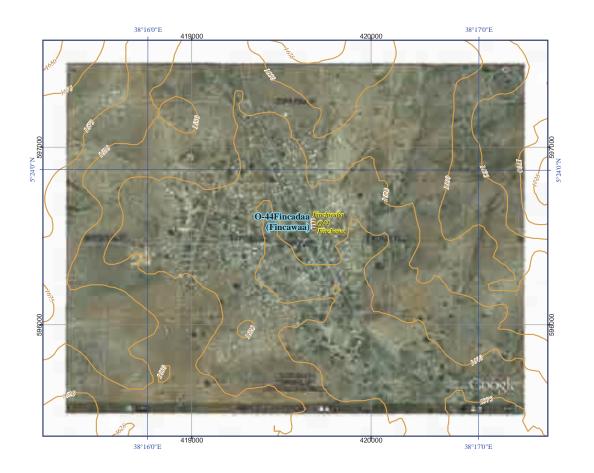
O-44 Fincadaa

	Oromia Region				29 /30	
	Name of small town :		Fincadaa		O- 44	Ī
	Name of Woreda :		Dugda Daw	ıa O'	W- 13	1
	Name of Zone :		Borena		Z- 02	1
	Profile	items		Profil		!
01	Population					
		nale / total	by OWRB		648 7,200	
		nale / total	by Census 2007	not listed not li		i
02	percentage of Town in Woreda Town Coordination UTM (Ac	lindon)	Easting / Northig / Alt.	419588 596	#VALUE! 399 1,605	<u> </u>
	Town Status	ilidali)	Easting / Norting / Ait.	Municipally	3,003	
04	Water Source					
	04-01 Water source		Type, No.	Well * 2nos.		
	04-02 Well spec.	De	pth., Casing Dia., S.W.L, Yield			
	04-03 Method of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec. 04-05 Power source for motorized pump		Type, Yield Type, Kva	Motorized pump Commercial Elec. Lin		
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation ho	ure)	daily hours, time	06:00-^10:00, 16:00-2		
	04-07 Water quality	urs)	Iron, Fluorideetc.	good	o.oo (oms. day)	
	04-08 Other technical specimen		11011, 1110011110 11110101	8		
	-			***************************************		
05	Existing Water Supply Facilities					ļ
	05-01 Established year		(Gregorian calendar)	1979 / 2000		ļ
	05-02 Financial of implementation	.,	Donor's name	OWRB / VOCA Fincadaa water projec	+	ļ
	05-03 Name of implementation (Project name 05-04 Intake Type	=)		Well	ı	
	05-05 Intake No.			2nos.		ļ
	05-06 Conveyance Type (Water source ~ Res	ervoir)	Pipe material, length	GIP, 2*1/2", 1,100m		
	05-07 Power to convey		Pressure, Gravity	Pressure		·
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		ļ
	05-10 Water reserver type		Туре	GR		ļ
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	1no. 50m3		
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn.	~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit	. reservoir)	Pressure, Gravity	nil.		
	05-15 Distribution Type		Pipe material, length	See below memo		-
	05-16 Power to distribute		Pressure, Gravity	Gravity		
	05-17 Structure Type of water point (Public F		RC, Masonry, Pipeetc			
	05-18 Number of water point (Public Faucet,		no.	12 (10 function)		-
	05-19 Number of faucet at a water point (Pub 05-20 Average of daily water consumption at		no. F) m3/day	6 Not grasped		
	05-21 Number of House Connection (HC)	a water point (F1	') III3/day	100		·
	05-22 Average of daily water consumption of Hot	use Connection(HC	m3/day	1.1m3/day		
	05-23 Number of Business Conection (BC)			10		
	05-24 Type of Business Connection (BC)		ool, Gov. office, Hospitaletc		Church	
	05-25 Average of daily water consumption of Busin	ness Connection (BC	C) m3/day	0.6m3/day		
	05-26 Other technical specimen					
06	Operation and Maintenace					-
00	06-01 Organization's name			Finchwula Limat		<u> </u>
	06-02 Type of organization	R	Regional, Zone, Enterpriceetc		anization	†
	06-03 Number of thechnical staff			3		
	06-04 Principal works of technical staff			Pump operation, Plum	bing	
	06-05 Number of the financial staff			7		
	06-06 Principal works of financial staff		D' II G :	Water sale, Bill		ļ
	06-07 Categories of water tariff 06-08 Water tariff rate	W	.Point, House Connectionetc	. W. Point		
	Water point (Public faucet)		Birr/L, 20L	6.0birr/m3		ļ
	House connection		Birr/m3	ditto		
	Business connection		Birr/m3	ditto		1
	06-09 Average monthly income by water taris	ff	Birr/month	12,000birr/month		1
	06-10 Procurement of spare parts	at Tow	vn, Zonal Cap. Reg. Capetc			
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc			
	06-12 Method in case of serious repair		l office, Private companyetc			
	06-13 Principal serious repair with 5-10 years		conjugation C D	Not grasped		
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Or	ganization, Gov., Donorsetc	Region		
	00-15 Other technical specificii					
Ì						1

O-44 Fincadaa

07	Problem of actual town water sup	oply			
	07-01 Technical				
	Water source		Quantity, Qualityetc.	Water Shorta	
	Water supply facility		Decrepit, leakage, design failuree	tc.Design failure	(double well pumping etc.)
	07-02 Finalcial				
	Management Rate of water tarrif collecti	ion		nil. Not grasped	
	Personnel expenses	1011		free	
	Shourtage of budget to exe	ecute operation & main	ntenace	Not grasped	
	07-03 Other incidential, Special s	specimen			
	Increase in population to co	onsume water c	oming from other towns, villagese		
	Change in industry		increase factory, Tradinge		
	Human conflict		Ethnic, Administrativee	tc n11.	
	07-04 Other specimen				
8	Geographical condition	(Slope on mountaior	n, bottom of valley, Top of ridgeet	2.)	
	Town is on the flat area slightly s				
9	Necessary Institution (Facility, M.	Iaterial)			
	Refer to Chapter 4 "Table 4.7"				
0	Current Water Coverage (%)			1	122 %
		m3*10BC)=176m3/da	y 176m3/20Lpcd.=8800persons 83	300persons/7,20	
	Current Water Coverage (%) (by	data of water source	product))		%
			sons ???persons/7200population=???	%	<u> </u>
1	Water Potential (A/B/C/D/	E)			Е
_	Accomplished (A /B /C /B /E)	A = A or l - lt /D D = C	unus a /C=Sub Cus J. /D O=J- D C C C C	ot Americal 1 1	E/E
2	Accessibility (A/B/C/D/E)		ourse/C=Sub Grade/D=Only Dry Season/E=N fm $/B$ = >3~6m $/$ C= 1~3m $/$ D= <1m	ot Approached	E/E
	Access road is Asphalt road 30km				
3	Manpower Capability of Water S				11
	Trianspower Cupucinity of Water B	appry management e.	y water office going		
4	Dgree of urgency (A/B/C/D	/ E)			
	Refer to Chapter 5 & 7				
_	 				
15	New Water Supply Plan				
5		n Ethiopian standard, v	whichis not required more advanced t	echnology. The	small town is on the
5			-	echnology. The	small town is on the
	The facility can be designed in ar generally flat terrains, construction		-	echnology. The	small town is on the
	The facility can be designed in ar		-	echnology. The	small town is on the
	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's		-	echnology. The	small town is on the
6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's		-	echnology. The	small town is on the
.6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group		-		small town is on the
6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	on work is not difficul	-	Oromo	
6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	on work is not difficul	t.	Oromo Health Center	small town is on the
.6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	on work is not difficul	km	Oromo Health Center 30	r, Private clinic, Drug stor
6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	on work is not difficul	t.	Oromo Health Center 30 Mararia	r, Private clinic, Drug stor 4,000
.6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid	r, Private clinic, Drug stor
6	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	on work is not difficul	km	Oromo Health Center 30 Mararia	r, Private clinic, Drug stor 4,000 2,160
6 7 8	The facility can be designed in ar generally flat terrains, construction Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid Dysentery	r, Private clinic, Drug stor 4,000 2,160 720 7,000
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the Chapter of Water born Main patients of water born Main economic activities	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid Dysentery others	r, Private clinic, Drug stor 4,000 2,160 720 7,000
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the conditions of the condi	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid Dysentery others	r, Private clinic, Drug stor 4,000 2,160 720 7,000
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the Chapter of Water born Main patients of water born Main economic activities	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid Dysentery others	r, Private clinic, Drug stor 4,000 2,160 720 7,000
6 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the Chapter of Water born Main patients of water born Main economic activities	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid Dysentery others	r, Private clinic, Drug stor 4,000 2,160 720 7,000
.6	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water born Main economic activities Particular comments:	on work is not difficul	km	Oromo Health Center 30 Mararia Typhoid Dysentery others	r, Private clinic, Drug stor 4,000 2,160 720 7,000
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the conditions of water born water born main economic activities Main economic activities Particular comments:	m Town n diseases	km persons / year	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water born Main economic activities Particular comments:	m Town n diseases Mr. Mulunehe Adu	km	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 8 9 9 0	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the conditions of water born water born main economic activities Main economic activities Particular comments:	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec	km persons / year gna A/Head of woreda water office,	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 7 8 0	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the conditions of water born water born main economic activities Main economic activities Particular comments:	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec	km persons / year lgna A/Head of woreda water office, tha water supply expert Mob. 091323	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 8 9 9 20	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the conditions of water born and the conditions of water born water facilities from the conditions of wate	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec	km persons / year lgna A/Head of woreda water office, tha water supply expert Mob. 091323	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl	km persons / year ligna A/Head of woreda water office, cha water supply expert Mob. 091323 umber Mob. 0916519935	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244 2315	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the conditions of water born Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area. The Country of the study area. The Country of the study area. The Country of the study area. Well ; Estbsh on 1979	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl	km persons / year ligna A/Head of woreda water office, tha water supply expert Mob. 091323 umber Mob. 0916519935 SWL GL-??m / ??L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 8 9 9 20	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl	km persons / year ligna A/Head of woreda water office, cha water supply expert Mob. 091323 umber Mob. 0916519935	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area. The Country of the Study area. The Country of the Study area. The Country of the Study area. Well; Estbsh on 1979 Well; Estbsh on 2000	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl	km persons / year ligna A/Head of woreda water office, tha water supply expert Mob. 091323 umber Mob. 0916519935 SWL GL-??m / ??L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
16 17 18 20	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl GL-71m / 6*5/8" / GL-60m / 6*5/8" /	km persons / year ligna A/Head of woreda water office, tha water supply expert Mob. 091323 mber Mob. 0916519935 SWL GL-??m / ??L/sec. SWL GL-??m / 3.0L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
16 17 18	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl	km persons / year lgna A/Head of woreda water office, tha water supply expert Mob. 091323 umber Mob. 0916519935 SWL GL-??m / ??L/sec. / SWL GL-??m / 3.0L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
.7 .8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl GL-71m / 6*5/8" / GL-60m / 6*5/8" /	km persons / year ligna A/Head of woreda water office, tha water supply expert Mob. 091323 mber Mob. 0916519935 SWL GL-??m / ??L/sec. SWL GL-??m / 3.0L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 8 9 9 20	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl GL-71m / 6*5/8" / GL-60m / 6*5/8" /	km persons / year lgna A/Head of woreda water office, tha water supply expert Mob. 091323 umber Mob. 0916519935 SWL GL-??m / ??L/sec. / SWL GL-??m / 3.0L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
6 7 8	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl GL-71m / 6*5/8" / GL-60m / 6*5/8" /	km persons / year lgna A/Head of woreda water office, tha water supply expert Mob. 091323 umber Mob. 0916519935 SWL GL-??m / ??L/sec. / SWL GL-??m / 3.0L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock
66 77 88 99 00	The facility can be designed in ar generally flat terrains, construction of the Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water born Main economic activities Particular comments: Remarks: Out of the study area.	m Town n diseases Mr. Mulunehe Adu Mr. Denbobi Dulec Mr. Dawit Duba pl GL-71m / 6*5/8" / GL-60m / 6*5/8" /	km persons / year lgna A/Head of woreda water office, tha water supply expert Mob. 091323 umber Mob. 0916519935 SWL GL-??m / ??L/sec. / SWL GL-??m / 3.0L/sec.	Oromo Health Center 30 Mararia Typhoid Dysentery others Trade, Farmin Mob. 09164244	r, Private clinic, Drug stor 4,000 2,160 720 7,000 ng, Livestock

O-44 Fincadaa



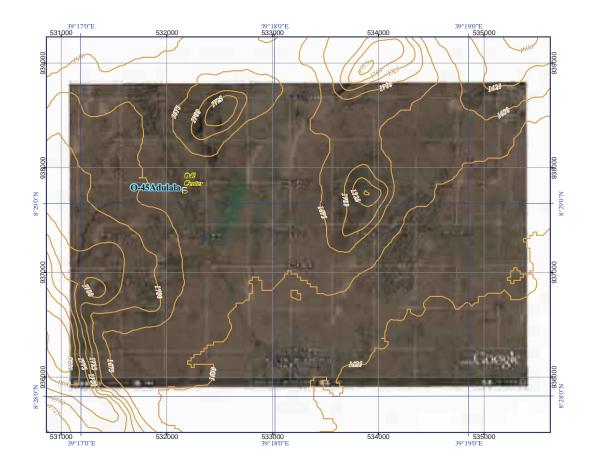
O-45 Adulala

Oromia Region				30 /3	
Name of small town	:	Adulala		0- 4	
Name of Woreda	:	Liben		OW- 2	4
Name of Zone	•	East Show	а	OZ- 0	3
	Profile items			Profile	
01 Population					
Town	male / female / total	by OWRB	1,787	1,814	3,601
Woreda	male / female / total	by Census 2007	not listed	not listed	not listed
percentage of Town in					VALUE!
72 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	532071 Town Adminis	937668	1,675
O3 Town Status O4 Water Source			Town Adminis	stration	
04-01 Water source		Type, No.	nil.		
04-01 Water source		Depth., Casing Dia., S.W.L, Yiel			
04-03 Method of water draw		Pump, Gravity	nil.		
04-04 Pump Spec.		Type, Yield	nil.		
04-05 Power source for motor	rized pump	Type, Kva	nil.		
04-06 Durartion of water draw	w (Operation hours)	daily hours, time	nil.		
04-07 Water quality		Iron, Fluorideetc.	nil.		
04-08 Other technical specim	en				
			-		
05 O1 Fatablished assets	ties	(Ci 1 1)	:1		
05-01 Established year 05-02 Financial of implement	totion	(Gregorian calendar)	nil.		
05-02 Financial of implement 05-03 Name of implementation		Donor's name	nil.		
05-04 Intake Type	on (F10Ject name)		nii.		
05-05 Intake No.			nil.		
05-06 Conveyance Type (Wa	ter source ~ Reservoir)	Pipe material, length	nil.		
05-07 Power to convey	100011011	Pressure, Gravity	nil.		
05-08 Water treatment		Disinfection, Ironetc.	nil.		
05-09 Water treatment capaci	ity	m3/day	nil.		
05-10 Water reserver type		Type	nil.		
05-11 Water reserver No.		no.	nil.		
05-12 Water reserver Capacit		m3	nil.		
05-13 Transmission Type (Bo	ooster pump Stn. ~ Reservoir)	Pipe material, length	nil.		
05-14 Power to transmit		Pressure, Gravity	nil.		
05-15 Distribution Type		Pipe material, length	nil.		
05-16 Power to distribute	· (D.H. E DE)	Pressure, Gravity	nil.		
05-17 Structure Type of wate		RC, Masonry, Pipeetc	nil.		
05-18 Number of water point	water point (Public Faucet, PF)	no. no.	nii.		
	consumption at a water point (nil.		
05-20 Number of House Con		(11) 1113/day	nil.		
	onsumption of House Connection(l	HC) m3/day	nil.		
05-23 Number of Business Co		mo, duy	nil.		
05-24 Type of Business Conr	nection (BC) Factory, S	chool, Gov. office, Hospitaletc	nil.		
05-25 Average of daily water con	nsumption of Business Connection ((BC) m3/day	nil.		
05-26 Other technical specim	en				
Operation and Maintenace			 		
06-01 Organization's name			nil.		
06-02 Type of organization	4 CC	Regional, Zone, Enterpriceetc			
06-03 Number of thechnical s			nil.		ļ
06-04 Principal works of tech 06-05 Number of the financia			nil.		
06-05 Number of the financia			nil.		
06-07 Categories of water tar		W.Point, House Connectionetc			
06-08 Water tariff rate	111	11.1 Offic, 110use Confidentialetc	nil.		
Water point (Public fau	icet)	Birr/L, 20L	nil.		
House connection		Birr/m3	nil.		
Business connection		Birr/m3	nil.		
06-09 Average monthly incor		Birr/month	nil.		
06-10 Procurement of spare p	oarts at T	own, Zonal Cap. Reg. Capetc	. nil.		
06-11 Principal spare parts		Oil filter, Fuel filter, Pipeset	nil.		
06-12 Method in case of serio		onal office, Private companyet			
06-13 Principal serious repair			nil.		
06-14 Fund for above 6-09, 6		Organization, Gov., Donorsetc	nil.		
06-15 Other technical specim	en				

O-45 Adulala

07	Problem of actual town water supply			
	07-01 Technical			
		nil.		
	Water supply facility Decrepit, leakage, design failureetc	nıl.		
	07-02 Finalcial Management	nil.		
	<u> </u>	nil.		
	<u></u>	nil.		
	Shourtage of budget to execute operation & maintenace	nil.		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc	Coming from	villagers	
	Change in industry increase factory, Tradingetc Human conflict Ethnic, Administrativeetc			
	Human conflict Ethnic, Administrativeetc 07-04 Other specimen	1111.		
	07-04 Other specifical			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town is on the flat area.			
09	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"			
	Refer to Chapter 4 Table 4.7			
10	Current Water Coverage (%) (by water consumption at faucets)		%	
	Current Water Coverage (%) (by data of water source product))		%	_
11	Water Potential (A/B/C/D/E)		E	
1.1	The Tolerand (117 b) C (b) L)			
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	E/E	
	A=Road Width > $6 \text{m /B} = 3 \sim 6 \text{m / C} = 1 \sim 3 \text{m / D} = < 1 \text{m}$			
- 10	Access road is Asphalt road 14km from Adama. * Refer to Chapter 5 "Table 5-7: Categories of the Property of th	of accessibilit		
13	Manpower Capability of Water Supply Management by Water Office point)		0	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
1.5	N. W. G. I D			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, which is not required more advanced tech		small town is on the	
	generally flat terrains, however, construction works is required some ingenuities arround water	sources.		
	OIL D. NIGOL			
16	Other Donors, NGO's			
16	Other Donors, NGO s			
		Oromo		
		Oromo		
17		Oromo		
17	Main Ethnic Group Health conditions -1 Medical facilities in Town	Health post		
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health post		
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health post 10 Dysentery	200	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health post 10 Dysentery Malaria	82	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health post 10 Dysentery		
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Health post 10 Dysentery Malaria Typhoid	82	
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Health post 10 Dysentery Malaria Typhoid	82	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	
17 18 19 20	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Resident buy water from water saler who coming from Adama City This town has not the existing water supply facility. The residents buy water from water saler water sal	Health post 10 Dysentery Malaria Typhoid Farming	82 50	

O-45 Adulala



S-01 Buei

	SNNPR			1 / 52	
	Name of small town	:	Buei	S- 01	
	Name of Woreda	=	Sodo	SW- 01	
	Name of Zone	:	Gurage	SZ- 01	
		Profile items		Profile	
01	Population				
	Town	male / female / total	by SNNPR		5,961
	Woreda	male / female / total	by Census 2007		1,634
00	percentage of Town in Wor		E C /N di /Ak	1	5.2%
	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	450564 919685 2 Wareda Capital	2,029
	Water Source			wareda Capitai	
0.	04-01 Water source		Type, No.	BH Well * 3nos. (1no. Function)	
	04-02 Well spec.	D	epth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw		Pump, Gravity	Pump	
	04-04 Pump Spec.		Type, Yield	Motorized pump	
	04-05 Power source for motorized		Type, Kva	Elec. Line and Standby Generator for No.	.2
	04-06 Durartion of water draw (O	peration hours)	daily hours, time	06:00-12:00, 15:00-24:00 (15hrs/day)	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Good nil.	
	04-08 Other technical specimen				
0.5	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1st. 1971 / 2nd. 2003	
	05-02 Financial of implementation	1	Donor's name	1st. SNNPR / 2nd. Unicef	
	05-03 Name of implementation (F	roject name)		Buei water project	
	05-04 Intake Type			Well	
	05-05 Intake No.			3 (1 under operation)	
	05-06 Conveyance Type (Water se	ource ~ Reservoir)	Pipe material, length	see bellow memo	
	05-07 Power to convey		Pressure, Gravity	Pressure	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity 05-10 Water reserver type		m3/day	Ground Reservoir	
	05-10 water reserver type 05-11 Water reserver No.		Type no.	Ino.	
	05-12 Water reserver Capacity		m3	100m3	
	05-13 Transmission Type (Booste	r nump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit		Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	see bellow memo	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water poi	<u> </u>	RC, Masonry, Pipeetc		
	05-18 Number of water point (Pub		no.	20 nos.	
	05-19 Number of faucet at a water		no.	4 or 6 nos.	
	05-20 Average of daily water con		PF) m3/day	0.745m3/day (=447m3/30day/20PF) 938	
	05-21 Number of House Connecti 05-22 Average of daily water con-		ion m3/day	0.19m3/day (5360m3/30day/938)	
	05-22 Average of daily water con-		ion m3/day	25	
	05-24 Type of Business Connection		nool, Gov. office, Hospitaletc	1=-	trv*
	05-25 Average of daily water consum			0.6m3/day (=18m3/30day)	
	05-26 Other technical specimen			nil.	
06	Operation and Maintenace				
	06-01 Organization's name			Town Water Office	
	06-02 Type of organization		Regional, Zone, Enterpriceetc	Town	
	06-03 Number of thechnical staff 06-04 Principal works of technica	Latoff		Operation / Physiking	
	06-05 Number of the financial sta			Operation / Plumbing	
	06-06 Principal works of financial			Read W. Meter / Billetc.	
	06-07 Categories of water tariff		V.Point, House Connectionetc		
	06-08 Water tariff rate		.,		
	Water point (Public faucet)		Birr/L, 20L	0.1 birr/20L	
	House connection		Birr/m3	see below memo	
	Business connection		Birr/m3	ditto	
	06-09 Average monthly income b		Birr/month	15,000 birr/month	
	06-10 Procurement of spare parts		wn, Zonal Cap. Reg. Capetc	Addis Ababa	
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious re		al office, Private companyetc		
	06-13 Principal serious repair with		ragnization Gov. Donors	Pump motor was burned Town Water Office	
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by O	rganization, Gov., Donorsetc	nil.	
	oo 13 Outer technical specimen			1111.	
	1			1	

S-01 Buei

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage water		
	Water supply facility Decrepit, leakage, design failureetc	Capacity of W	V. Reservoir, Volume	e of Pipe line
	07-02 Finalcial			
	Management		nent of water fee	
	Rate of water tarrif collection	No response		
	Personnel expenses	No response		
	Shortage of budget to execute operation & maintenace	No response		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other specimen	No response		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town: Flat area			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
			1	
10	Current Water Coverage (%) (by water consumption at faucets)	10.1	149%	
	(0.745m3*20PF+0.19m3*938HC+0.6m3*25BC)=208m3/day 208m3/20Lpdc.= 10,406 perso	ns 10,406pei		
	Current Water Coverage (%) (by data of water source product))	120 -1	331%	
4.4		ersons/6961po	pulation=331%	
11	Water Potential (A / B / C / D / E)		В	
10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T . A	1	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=P		A/B	
	A=all paved, B=Paved + Base Couse + Sub-grade, C=Paved+Sub-grade+Dry season only, D=	=Sub-grade+D	ry season only, E=O	ut of the stu
10	* Refer to Chapter 5 "Table 5-7: Categories of accessibility"		1	
13	Manpower Capability of Water Supply Management by Water Office point)		14	
			1	
14				
	Refer to Chapter 5 & 7			
1.5	N. W. C. I Di			
15	New Water Supply Plan			
15	***	hnology. The	small town is on the	generally fla
15	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.	hnology. The	small town is on the	generally fla
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.	hnology. The	small town is on the	generally fla
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the	generally fla
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.	hnology. The	small town is on the	generally fla
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's			generally fla
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.	chnology. The		generally fla
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group			generally fla
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions	Kestane Gura	ge	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Kestane Gura	ge , Private clinic, Dru	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Kestane Gura Health Center	ge r, Private clinic, Drug 0	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Kestane Gura Health Center 3 Mararia	ge -, Private clinic, Druş 0 9,715	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Kestane Gura Health Center 3 Mararia Dysentery	ge r, Private clinic, Drug 0	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Kestane Gura Health Center 3 Mararia	ge -, Private clinic, Druş 0 9,715	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Kestane Gura Health Center 3 Mararia Dysentery	ge -, Private clinic, Druş 0 9,715	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Kestane Gura Health Center 3 Mararia Dysentery	ge -, Private clinic, Druş 0 9,715	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities	Kestane Gura Health Center 3 Mararia Dysentery	ge -, Private clinic, Druş 0 9,715	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Kestane Gura Health Center 3 Mararia Dysentery	ge -, Private clinic, Druş 0 9,715	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well.	Kestane Gura Health Center 3 Mararia Dysentery	ge -, Private clinic, Druş 0 9,715	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge -, Private clinic, Drug 0 9,715 3,931	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge -, Private clinic, Druş 0 9,715	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge -, Private clinic, Drug 0 9,715 3,931	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks: Interviewee:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge -, Private clinic, Drug 0 9,715 3,931	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge -, Private clinic, Drug 0 9,715 3,931	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks: Interviewee:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge -, Private clinic, Drug 0 9,715 3,931	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks: Interviewee:	Kestane Gura Health Center 3 Mararia Dysentery Trade	ge 7, Private clinic, Drug 0 9,715 3,931 hu H/Water supply S	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks: Interviewee: mo (Town sketchetc.): O4-02 Well spec. Well No.1; Estbsh on 1971 GL-87m / Casing dia.8" / SWL GL-??m / 3.3L/sec.	Kestane Gura Health Center 3 Mararia Dysentery Trade Ato Alemayel	ge T, Private clinic, Drug 0 9,715 3,931 hu H/Water supply S	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks: Interviewee: mo (Town sketchetc.): O4-02 Well spec. Well No.1; Estbsh on 1971 GL-87m / Casing dia.8" / SWL GL-??m / 3.3L/sec. Well No.2; Estbsh on 1999 GL-120m / Casing dia.8" / SWL GL-??m / 4.7L/sec. / St-F	Kestane Gura Health Center 3 Mararia Dysentery Trade Ato Alemayel	ge The private clinic, Drug The private clinic	g store
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing well. Remarks: Interviewee: Well No.1; Estbsh on 1971 GL-87m / Casing dia.8" / SWL GL-??m / 3.3L/sec. Well No.2; Estbsh on 1999 GL-120m / Casing dia.8" / SWL GL-??m / 4.7L/sec. / St-F Well No.3; Estbsh on 2010 GL-158m / Casing dia.8" / SWL GL-??m / 8.0L/sec.	Kestane Gura Health Center 3 Mararia Dysentery Trade Ato Alemayel	ge T, Private clinic, Drug 0 9,715 3,931 hu H/Water supply S	g store
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ND-2*1/2=1,740m ND-1*1/4"=102m 06-08 Water tariff rate (Buisiness Connection)

0~5 m3 =3.25birr/m3

31~ m3 =4.00birr/m3

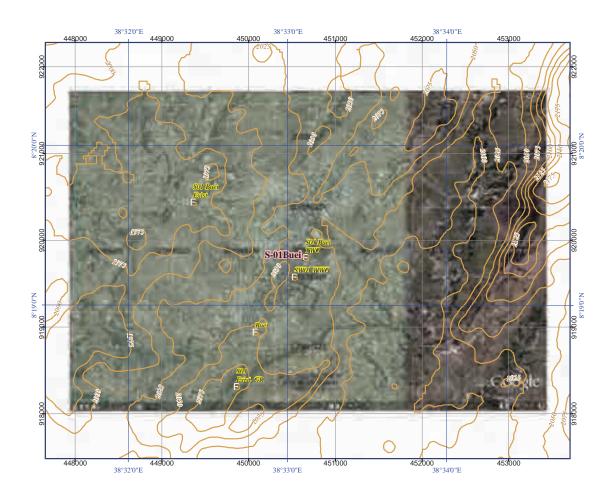
Water Meter Lease

ND-1/2"=3.0birr/month ND-3/4"=4.0birr/month ND-1"=5.0birr/month

Total= 8,288m

6~10 m3 =3.50birr/m3 11~30 m3 =3.75birr/m3

S-01 Buei



S-02 Kela

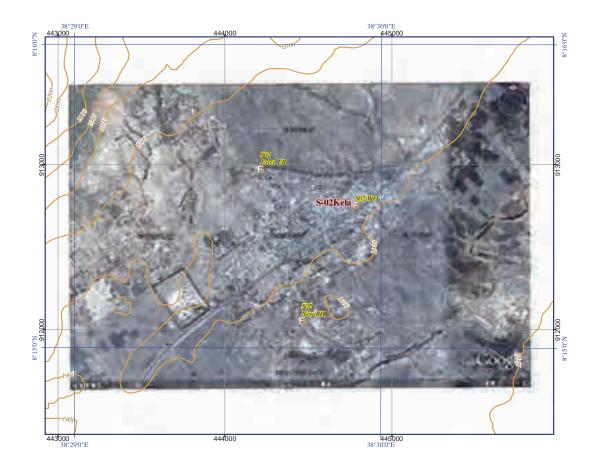
	SNNPR			2 / 52	
	Name of small town :		Kela	S- 02	
	Name of Woreda :		Sodo	SW- 01	
	Name of Zone :		Gurage	SZ- 01	
		ofile items	Ourage	Profile	,
01	Population	ome nems		Trome	
0.1	-	/ female / total	by SNNPR	1,644 1,875	3,519
		/ female / total	by Census 2007	, - , - , - , - , - , - , - , - , - , -	34,634
	percentage of Town in Woreda		·		2.6%
02	Town Coordination UTM	I (Adindan)	Easting / Northig / Alt.	44689 912633	1,927
	Town Status			Town Administration	
04	Water Source				
	04-01 Water source		Type, No.	Spring*1no. (+New BH)	
	04-02 Well spec.	Dep		Not grasped (New BH GL-60m, 6", GL-??m,	?'.L/sec.)
	04-03 Method of water draw		Pump, Gravity	Pump Gravity	
	04-04 Pump Spec. 04-05 Power source for motorized pump		Type, Yield Type, Kva	nil.	
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operatio		daily hours, time	24hrs.	
	04-07 Water quality	ii nours)	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen		11011,111011100		
05	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	2007	
	05-02 Financial of implementation		Donor's name	Ethiopian Orthodox Chrch (EOC	
	05-03 Name of implementation (Project	name)		Kela town water supply & sanita	tion pr
	05-04 Intake Type			Spring	
	05-05 Intake No.			Ino.	
	05-06 Conveyance Type (Water source ~	Reservoir)	Pipe material, length	GIP, 5", 3,000m	
	05-07 Power to convey 05-08 Water treatment		Pressure, Gravity Disinfection, Ironetc.	Gravity nil.	
	05-08 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Туре	GR, ER	
	05-11 Water reserver No.		no.	GR*1no., ER *2nos.	
	05-12 Water reserver Capacity		m3	GR 10m3 * 1no., ER 4m3*2	
	05-13 Transmission Type (Booster pump	Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit		Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	GIP, 3"~ 1" L=???m	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Pub		RC, Masonry, Pipeetc.		
	05-18 Number of water point (Public Fau		no.	13 (8 fonction)	
	05-19 Number of faucet at a water point 05-20 Average of daily water consumption		no. m3/day	6FC*2PF, 4FC*11PF 2.23m3/day	
	05-20 Average of daily water consumption 05-21 Number of House Connection (HC		III3/day	290	
	05-22 Average of daily water consumption of		m3/day	0.1m3/day	
	05-23 Number of Business Conection (B		III3/day	15	
	05-24 Type of Business Connection (BC		ol, Gov. office, Hospitaletc	Hotel, School, Factory, Farm	
	05-25 Average of daily water consumption of	Business Connection (BC)	m3/day	0.7m3/day	
	05-26 Other technical specimen		-		
06	Operation and Maintenace				
	06-01 Organization's name		-i1 7 F / ·	Town water supply service	
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc	Town administration	
	06-03 Number of thechnical staff 06-04 Principal works of technical staff			Plumbing, Water meter read	
	06-05 Number of the financial staff			2	
	06-06 Principal works of financial staff			Water meter read, Bill	
	06-07 Categories of water tariff	WF	Point, House Connectionetc.		
	06-08 Water tariff rate	11.1		,	
	Water point (Public faucet)		Birr/L, 20L	0.1birr/20L	
	House connection		Birr/m3	3.5birr/m3	
	Business connection		Birr/m3	ditto	
	06-09 Average monthly income by water		Birr/month	4,000birr/month	
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair		office, Private companyetc		
	06-13 Principal serious repair with 5-10		iti C D	Not grasped	
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Orga	anization, Gov., Donorsetc.	DIVINEK	
	00-15 Onici technical specificii				
	1			1	1

S-02 Kela

07	Problem of actual town water supply				T
	07-01 Technical				1
	Water source	Quantity, Qualityetc.	New BH wa	s dryed.	†
	Water supply facility Decrepit	, leakage, design failureetc			7
	07-02 Finalcial				1
	Management		Not grasped		T
	Rate of water tarrif collection		Not grasped		1
	Personnel expenses		Not grasped		1
	Shortage of budget to execute operation & maintenace		Not grasped		1
	07-03 Other incidential, Special specimen		<u></u>		†
		m other towns, villagesetc	Not grasped		T
	Change in industry in	crease factory, Tradingetc.	Increase fact	tory (Line factory)	-
	Human conflict	Ethnic, Administrativeetc		, (,/	†
	07-04 Other specimen				†

08	Geographical condition (Slope on mountaion, bottom	of valley, Top of ridgeetc.))		
	Town is on foot of mountain				1
)9	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
					\perp
10	Current Water Coverage (%) (by water consumption at faucets)			81%	Ĺ
	(2.23m3*8PF+0.1m3*290HC+0.7m3*15BC)=57.34m3/day 57.34	4m3/20Lpcd.= 2,867persons	2,867persons	/ 3,519 population = 81%	
	Current Water Coverage (%) (by data of water source product))			?? %	
	((??L+??L+??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos	??persons/3519population=	??%		Ι
11	Water Potential (A / B / C / D / E)		_	В	
					1
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub		Approached	A / A	T
	A=Road Width > 6m /B= >3	~6m / C= 1~3m / D= <1m		•	7
	* Refer to Chapter 5 "Table 5-7: Categories of accessibility"				Ť
13	Manpower Capability of Water Supply Management by Water C	office (point)		12	
					1
			***************************************		1
					+
14	Dgree of urgency (A / B / C / D / E)				1
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				╁
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7 New Water Supply Plan	t maning damper advanced to	handow. The		112
	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no	ot required more advanced tec	hnology. The	e small town is on the gent	le-
	Refer to Chapter 5 & 7 New Water Supply Plan	ot required more advanced tec	hnology. The	e small town is on the gent	le
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no	ot required more advanced tec	hnology. The	e small town is on the gent	le
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities.	ot required more advanced tec	hnology. The	e small town is on the gent	le
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's	ot required more advanced tec	hnology. The	e small town is on the gent	le
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's	ot required more advanced tec	hnology. The	e small town is on the gent	lle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision	ot required more advanced tec		e small town is on the gent	lle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision	ot required more advanced tec	Gurage		
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group	ot required more advanced tec	Gurage	e small town is on the gent	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions	ot required more advanced tec	Gurage	er, Private clinic, Drug sto	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town		Gurage Health Cente	er, Private clinic, Drug sto	
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15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Gurage Health Center 21 Mararia	er, Private clinic, Drug sto	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Gurage Health Center 21 Mararia Typhoid	er, Private clinic, Drug sto 4,974 918 888	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Gurage Health Center 21 Mararia Typhoid Dysentery	er, Private clinic, Drug sto 4,974 918 888	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year	Gurage Health Center 21 Mararia Typhoid Dysentery	er, Private clinic, Drug sto 4,974 918 888	
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115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	
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15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	re
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	re
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	re
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	re
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	
115 116 117 118 119 220	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis no slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: New completed well to be additional water source in addition to Remarks:	km persons / year the existing spring. Mr. Abebe Dese Head WS So	Gurage Health Centre 21 Mararia Typhoid Dysentery Waving, Far	er, Private clinic, Drug sto 4,974 918 888 ming, Trade	re

S-02 Kela



S-03 Tiya

	SNNPR		Tivo		3 /	_
	Name of small town	•	Tiya		S- 0	
	Name of Woreda	•	Sodo		SW- 0)1
	Name of Zone	:	Gurage		SZ- 0)1
		Profile items			Profile	
1	Population					
	Town	male / female / total	by SNNPR	906	1,031	1,937
	Woreda	male / female / total	by Census 2007	67,110	67,524	134,634
,	percentage of Town in Wor Town Coordination	UTM (Adindan)	Easting / Nouthin / Alt	456768	932196	1.4% 2,320
	Town Coordination Town Status	U I M (Adindan)	Easting / Northig / Alt.	Municipality	932190	2,320
	Water Source			ividificipanty		
	04-01 Water source		Type, No.	Well * 2nos.		
	04-02 Well spec.	Dep	oth., Casing Dia., S.W.L, Yield		GL-85m, 1.5	5L/sec.
	04-03 Method of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.		Type, Yield	Motorized pum	p	
	04-05 Power source for motorized		Type, Kva	Commercial Elec	Line (Genera	tor broken)
	04-06 Durartion of water draw (O	peration hours)	daily hours, time	06:00-13:30 (6	.5hrs/day)	
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen					
_	E			 		
)	Existing Water Supply Facilities		(6 : 1 1)	2007		
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar) Donor's name	2007 World vision		
	05-02 Financial of implementation (P		Polioi 8 hame	Tiya water proj	ect	
	05-03 Name of implementation (P	roject name)		Well	CCI	
	05-04 Intake Type 05-05 Intake No.			2nos.		
	05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	GIP, ??", 600m		
	05-07 Power to convey	June Reservoir)	Pressure, Gravity	Pressure		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Type	ER		
	05-11 Water reserver No.		no.	2nos.		
	05-12 Water reserver Capacity		m3	12m3*2nos		
	05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit		Pressure, Gravity	nil.		
	05-15 Distribution Type		Pipe material, length	GIP, ??", 400m		
	05-16 Power to distribute		Pressure, Gravity RC, Masonry, Pipeetc.	Gravity		
	05-17 Structure Type of water point (Pub 05-18 Number of water point (Pub		no.	5 (3function)		
	05-18 Number of faucet at a water		no.	4		
	05-20 Average of daily water cons			Not grasped		
	05-21 Number of House Connection		, martaly	nil.		
	05-22 Average of daily water consum		m3/day	nil.		
	05-23 Number of Business Conect	<u> </u>		nil.		
	05-24 Type of Business Connection		ol, Gov. office, Hospitaletc	nil.		
	05-25 Average of daily water consump			nil.	***************************************	***************************************
	05-26 Other technical specimen					
5	Operation and Maintenace					
	06-01 Organization's name			Water committ		
	06-02 Type of organization	Re	egional, Zone, Enterpriceetc	Town administ	ration	
	06-03 Number of thechnical staff	CC		Dume ·		
	06-04 Principal works of technical 06-05 Number of the financial state			Pump operation	1	
	06-05 Number of the financial state 06-06 Principal works of financial		***************************************	Water sale at W	/ Point	
	06-06 Principal works of financial 06-07 Categories of water tariff		Point, House Connectionetc		. FUIIIL	
	06-08 Water tariff rate	vv	om, mouse connectionetc			
	Water point (Public faucet)		Birr/L, 20L	0.25birr/20L		
	House connection		Birr/m3	nil.		
	Business connection		Birr/m3	nil.		
	06-09 Average monthly income by	water tariff	Birr/month	nil.		
	06-10 Procurement of spare parts		n, Zonal Cap. Reg. Capetc.			
	06-11 Principal spare parts	0	il filter, Fuel filter, Pipesetc	Zone		
	06-12 Method in case of serious re	pair by Regional	office, Private companyetc			
	06-13 Principal serious repair with			Generator brok	en	
	06-14 Fund for above 6-09, 6-10	by Org	anization, Gov., Donorsetc	SNNPR		
	06-15 Other technical specimen			I		

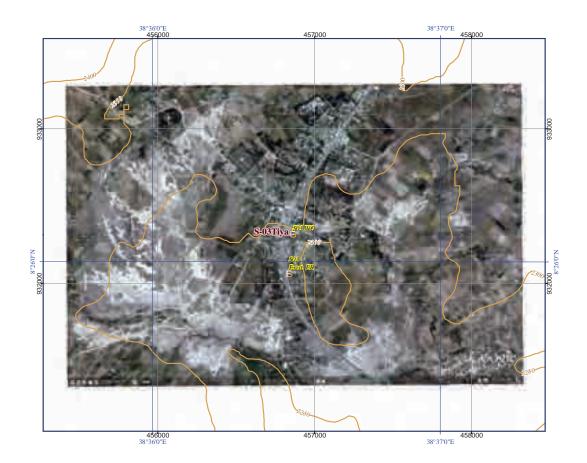
S-03 Tiya

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage was		
	<u>, </u>	Design failu	re of pipe line	es
	07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection	Shall conside	er	
	Personnel expenses	low		
	Shortage of budget to execute operation & maintenace	Shortage bud	lget for O&M	[
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.		ing	
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town is on flat area			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		0	?
10		nonulation-		
	(??m3*??PF+0m3*0HC+0m3*0BC)=??m3/day ??m3/20Lpcd.=??persons ??persons/1,937 Current Water Coverage (%) (by data of water source product))	роринапоп=?	p	%
	((1.5L+??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/1937population=??%			/0
11	Water Potential $(A/B/C/D/E)$			2
11	water Potential (A/B/C/D/E)			_
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A	/ P
12	A=Road Width > 6 m /B= >3 ~6m / C= 1 ~3m / D= <1 m	ripproactica	A	, в
	* Refer to Chapter 5 "Table 5-7: Categories of accessibility"			
13	Manpower Capability of Water Supply Management by Water Office point)			5
13	manpower capability of water supply management by water office pointy		<u> </u>	3
14	Dgree of urgency (A / B / C / D / E)		I	
14	Refer to Chapter 5 & 7			
	Telet to Chapter 3 cc 7			
15	New Water Supply Plan			
			11	.,
	The facility can be designed in an Ethiopian standard, which is not required more advanced tec	hnology. The	small town 1	s on the
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
	World vision			
17	Main Ethnic Group	Gurage		
18	Health conditions			
				nic, Drug store
	-2 Nearest other facilities from Town km	50		
	<u> </u>	Dysentery	165	
		Mararia	76	
		Typhoid	41	
		others	182	
19	Main economic activities	Trade, Wavi	ng, Farming	
20				
20	Particular comments :			
	Town population is less than 2,000 persons in accordance with list of the candidate small town	iS.		
21	Damarka i			
21	Remarks:			
		***************************************	***************************************	
Man	no (Town sketchetc.):		!	<u> </u>
Men	10 (Town sketchetc.):		l	
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	•			***************************************
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	•			MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND

データ 7.3 南部諸民族州の小都市プロファイル

S-03 Tiya



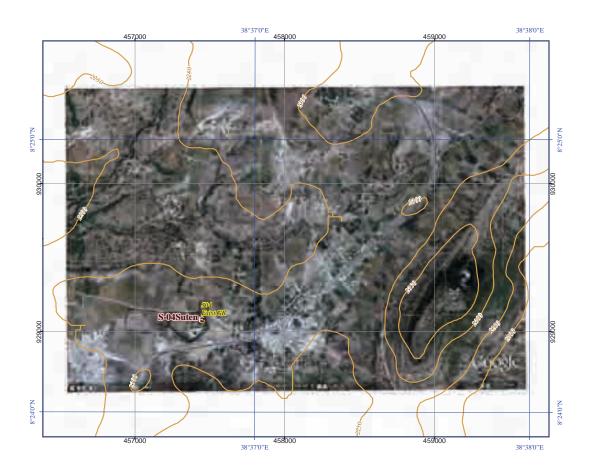
S-04 Suten

	SNNPR		4 / 52	
	Name of small town :	Suten	S- 04	
	Name of Woreda :	Sodo	SW- 01	1
	Name of Zone : G	urage	SZ- 01	
	Profile items		Profile	!
01	Population Town male / female / total by SNNPR Woreda male / female / total by Census 2007 percentage of Town in Woreda		623 675 1,298 67,110 67,524 134,634 1.0%	
_	Town Coordination UTM (Adindan) Easting / Northig	/ Alt.	457353 928959 2,289	_
$\overline{}$	Town Status		Town Administration	
04	Water Source 04-01 Water source Type, No.		Well * 1no.	
		W.L. Yield	GL-186m, 6*5/8", GL-??m, / ??L/sec.	
	04-03 Method of water draw Pump, Gravity		Pump	
	04-04 Pump Spec. Type, Yield		Motorized pump	
	04-05 Power source for motorized pump Type, Kva		Commercial Elec. Line	
	04-06 Durartion of water draw (Operation hours) daily hours, time 04-07 Water quality Iron, Fluoridee	-4-	07:00-12:00, 15:00-18:00 (8hrs./day) Good	ļ
	04-07 Water quality Iron, Fluoridee 04-08 Other technical specimen	etc.	G000	
	or of duct technical specimen			
05	Existing Water Supply Facilities			
	05-01 Established year (Gregorian calend	lar)	1992	
	05-02 Financial of implementation Donor's name		SNNPR, Unicef	
	05-03 Name of implementation (Project name) 05-04 Intake Type		Suten water project, Irish Embassy Well	ļ
	05-05 Intake No.		lno.	
	05-06 Conveyance Type (Water source ~ Reservoir) Pipe material, len	gth	GIP, 2*1/2", 5,000m	
	05-07 Power to convey Pressure, Gravity		Pressure	1
	05-08 Water treatment Disinfection, Iron	etc.	nil.	
	05-09 Water treatment capacity m3/day		nil.	ļ
	05-10 Water reserver type Type		GR	
	05-11 Water reserver No. no. 05-12 Water reserver Capacity m3		1no. 50m3	
	05-12 Water reserver Capacity inits 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, len	øth	nil.	
	05-14 Power to transmit Pressure, Gravity	5	nil.	·
	05-15 Distribution Type Pipe material, len		GIP, 2*1/2"=150m, 2"=3,436m (Total=3,586m)	
	05-16 Power to distribute Pressure, Gravity		Gravity	
	05-17 Structure Type of water point (Public Faucet, PF) RC, Masonry,	Pipeetc.	Mansonry	
	05-18 Number of water point (Public Faucet, PF) no. 05-19 Number of faucet at a water point (Public Faucet, PF) no.		6FC*4PF, 3FC*1PF (Function*3PF)	ļ
	05-19 Number of faucet at a water point (Public Faucet, PF) no. 05-20 Average of daily water consumption at a water point (PF) m3/day	i/	5.0m3/day	
	05-21 Number of House Connection (HC)	y	50 (Not function)	
	05-22 Average of daily water consumption of House Connection(HC) m3/day	y	Not grasped	!
	05-23 Number of Business Conection (BC)		Not grasped	!
	05-24 Type of Business Connection (BC) Factory, School, Gov. office, Hos			
	05-25 Average of daily water consumption of Business Connection (BC) m3/day	У	Not grasped	
	05-26 Other technical specimen			ļ
06	Operation and Maintenace			\vdash
	06-01 Organization's name		Water committee	1
	06-02 Type of organization Regional, Zone, Enter	rpriceetc	Community based organization	
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff		Pump operation	<u> </u>
	06-05 Number of the financial staff		Not grasped	!
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, House Conne	ection et-	Water maeter read, Bill, Water sale W. Point, House connection	
	06-08 Water tariff rate w.Point, House Conne	onetc.	11.1 Omit, House connection	
	Water point (Public faucet) Birr/L, 20L		0.5birr/20L	†
	House connection Birr/m3		1.6birr/m3	
	Business connection Birr/m3		ditto	ļ
	06-09 Average monthly income by water tariff Birr/month		2,500birr/month	ļ
	06-10 Procurement of spare parts at Town, Zonal Cap. Reg.			ļ
	06-11 Principal spare parts Oil filter, Fuel filter, 106-12 Method in 2000 of socious repairs by Regional office Private compared to the Property of the Private compared to the Property of the Private compared to the Property of the Private compared to the Private Comp	Pipesetc	Pripefitting Words NGO	
	06-12 Method in case of serious repair by Regional office, Private com 06-13 Principal serious repair with 5-10 years	ipanyetc	nil.	ļ
	06-14 Fund for above 6-09, 6-10 by Organization, Gov., Do	onorsetc		
	06-15 Other technical specimen			†
1				1

S-04 Suten

07	Problem of actual town water supp	ly			
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Shortage wat	er	
	Water supply facility	Decrepit, leakage, design failureetc	Not grasped		!
	07-02 Finalcial				
	Management		Not grasped		!
	Rate of water tarrif collection	n	Not grasped		!
	Personnel expenses		Not grasped		!
	Shortage of budget to execut	e operation & maintenace	Not grasped		!
	07-03 Other incidential, Special spe	ecimen			
	Increase in population to cor	sume water coming from other towns, villagesetc	nil		
	Change in industry	increase factory, Tradingetc.			
	Human conflict	Ethnic, Administrativeetc	nil		
	07-04 Other specimen				
L					
08		(Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Towns is on the flat area.				
09	Necessary Institution (Facility, Ma	terial)			
09	Refer to Chapter 4 "Table 4.7"	CHai)			
	Refer to Chapter 1 Tuble 1.7				
10	Current Water Coverage (%) (by v	vater consumption at faucets)		58%	
		3C)=15m3/day 15m3/20Lpcd.=750persons 750persons/1	,298populatio	n=??%	* man and a man
	Current Water Coverage (%) (by d			?? %	
L		?/20Lcd=??persos ??persons/1,298population=??%			
11	Water Potential (A/B/C/D/E)			C	
12	Accessibility (A/B/C/D/E)	A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A/B	
		A=Road Width > 6m /B = >3~6m / C = 1~3m / D = <1m			
<u> </u>	* Refer to Chapter 5 "Table 5-7: Ca	ž ,			
13	Manpower Capability of Water Suj	oply Management by Water Office point)		9	
1.4	D	7\	1		
14	Dgree of urgency (A / B / C / D / I Refer to Chapter 5 & 7	5)			Vancous and Assessed
	Refer to Chapter 3 & 7				
15	New Water Supply Plan				
		Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is or	the
	generally flat terrains, construction	WORK IS NOT CHILICUIT.			
16	Other Donors, NGO's				
<u> </u>					
17	Main Ethnic Group		Gurage		
10	TT 1d PC				
18	Health conditions -1 Medical facilities in Town		Deixoto olinio	Denia atoma	
	-2 Nearest other facilities from	Town km	Private clinic 45	, Drug store	
	-3 Main patients of water born		Mararia	1,000	
	3 Wall patients of water both	persons / year	Typhoid	300	
			Dysentery	208	
			others	700	
19	Main economic activities		Trade, Farmi	ng	
20	Particular comments:				
	Town population is less than 2,000	persons in accordance with list of the candidate small towr	ıs.		
21	Remarks:				
21	Kemarks :				
		Mr. shiferaw Arsi committee member mob. 0916248695			
		Mr. Mulatu Fekadu watr committee member			
Men	no (Town sketchetc.) :	The state of the s			
	(ı		,	Ł
<u> </u>					
					·
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i					

S-04 Suten



S-06 Koshe

	SNNPR				5 / 5	
	Name of small town :		Koshe		S- 06	
	Name of Woreda :		Marego		SW- 02	
	Name of Zone :		Gurage		SZ- 01	
		61- 14	Gurage			
_		file items		P	rofile	
	Population Town male	famala / tatal	her HCA Study Suggest	4 102	2.610	7,802
		/ female / total / female / total	by JICA Study Survey	4,192 32,195	3,610	63,436
		Temale / total	by Census 2007	32,193	31,241	12.3%
	percentage of Town in Woreda Town Coordination UTM	(A J:)	Etin-/Nthi-/Alt	448175	885173	1,891
_	Town Coordination UTM Town Status	(Adindan)	Easting / Northig / Alt.	Woreda Capital	883173	1,891
	Water Source			woreda Capitai		
	04-01 Water source		Type, No.	BH Well * 2nos.		
	04-01 Water source 04-02 Well spec.		Denth., Casing Dia., S.W.L			
	04-02 Well spec. 04-03 Methor of water draw		Pump, Gravity	Pump		
	04-03 Methor of water draw		Type, Yield	Motorized pump		
	04-04 Pump Spec. 04-05 Power source		Type, Kva	Commercial Elec		
	04-05 Fower source 04-06 Durartion of water draw		daily hours, time	see below memo	· •	
	04-06 Duration of water draw		Iron, Fluorideetc.	Good		
	04-07 water quanty 04-08 Other technical specimen		non, Fluorideetc.	nil.		
	04-08 Other technical specimen			1111.		
-	Existing Water Supply Facilities			1		
	05-01 Established year		(Gregorian calendar)	1969 / 2010		
	05-01 Established year 05-02 Financial of implementation		Donor's name	US Aid & Resqu	Committee	on 2010
	05-03 Name of implementation		Donor's name	Koshe water sup		011 2010
	05-03 Name of implementation 05-04 Intake Type			Well	bry project	
	05-05 Intake No.			2		
		Docomicin)	Dina matarial langth	GIP, 2"&4", 6m+3	000m saa bala	w mama
	05-06 Conveyance Type (Water source ~ 05-07 Power to convey	Reservoir)	Pipe material, length Pressure, Gravity	Pressure	,000iii see belo	w memo
				nil.		
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nii.		
	1 2		m3/day		0	
	05-10 Water reserver type 05-11 Water reserver No.		Туре	GR, ER Steel Tank (GR*1no., ER*1n		low memo
	<u></u>		no. m3	GR*100m3, ER*		
	05-12 Water reserver Capacity	C4 D		GK*100m3, EK*	41113	
	05-13 Transmission Type (Booster pump 05-14 Power to transmit	Stn. ~ Reservoir)	Pipe material, length	_		
	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity	- GIP&PVC/ 4"~1*1/2"	/2.950 C h-1	
	05-15 Distribution Type 05-16 Power to distribute		Pipe material, length	Gravity	/ 2,850m See Bei	ow memo
	05-16 Power to distribute 05-17 Structure Type of water point (Publ	lia Equant DE)	Pressure, Gravity RC, Masonry, Pipeetc.	Mansonry / Pipe		
	05-17 Structure Type of water point (Public Fau		no.	11		
	05-18 Number of water point (Public Faul 05-19 Number of faucet at a water point (6		
	05-19 Number of faucet at a water point (05-20 Average of daily water consumptio		no.	6m3/day		
	05-20 Average of daily water consumption 05-21 Number of House Connection (HC		m3/day	<u> </u>		
	05-21 Number of House Connection (HC 05-22 Average of daily water consumption of		2/1	151		
	05-22 Average of daily water consumption of 05-23 Number of Business Conection (BC		m3/day	0.53m3/day		
		-) 	1.C. SS H :: 1		0	
	05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of B	Factory, School	ol, Gov. office, Hospitaletc		9	
		Business Connection (BC)	m3/day	2.2m3/day		
	05-26 Other technical specimen					
_	Operation and Maintanas-			-		
	Operation and Maintenace			Koshe water supp	also conto	
	06-01 Organization's name 06-02 Type of organization	n -	gional, Zone, Enterpriceetc			on (CDC)
	06-02 Type of organization 06-03 Number of thechnical staff	Re	gional, Zone, Emerpriceetc	Community Base 2	u Organizatio	л (СВО
	06-04 Principal works of technical staff				O*	
				plumbing, operat	OI	
	06-05 Number of the financial staff			13	D:II!	
	06-06 Principal works of financial staff	1117	loint House C	Water meter cour		
	06-07 Categories of water tariff	W.P	Point, House Connectionetc	W. Point, House	Connection	
	06-08 Water tariff rate		Dim/L 20I	0.15him/251		
	Water point (Public faucet)		Birr/L, 20L	0.15birr/25L	roton mod	dalar acces
	House connection		Birr/m3	5.0birr/m3, 2.0birr/w	ater meter mont	my ease
	Business connection		Birr/m3	ditto		
	06-09 Average monthly income by water		Birr/month	14,000birr/month	1	
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.		C	
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc			
	06-12 Method in case of serious repair		office, Private companyetc			₹
	06-13 Principal serious repair with 5-10 y			Well pump repair		
			· / C D	IV oaka matan anna	alvi aomton	
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Orga	anization, Gov., Donorsetc	Koshe water supp nil.	ny cemer	

S-06 Koshe

	Problem of actual town water supply			
ŀ	07-01 Technical			
	Water source	Quantity, Qualityetc.	Shortage wat	
	Water supply facility	Decrepit, leakage, design failureet	Elec. Power:	supply (need stand by GE)
ļ	07-02 Finalcial			
	Management			ment from Customers
ļ	Rate of water tarrif collection		No response	
	Personnel expenses		No response	
ļ	Shortage of budget to execute operation &	maintenace	No response	
	07-03 Other incidential, Special specimen	· · · · · · · · · · · · · · · · · · ·	T .	1 .:
ļ	Increase in population to consume water	coming from other towns, villagesetc		pulation
	Change in industry	increase factory, Tradingetc		
l	Human conflict	Ethnic, Administrativeet		
	07-04 Other technical specimen		nil.	
2	Geographical condition (Slope on mou	intaion, bottom of valley, Top of ridgeetc.)	
	Town : Flat area	intaion, bottom of variey, 10p of flageee.		
	10wii . 1 lat aica			
)	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
-	Refer to Chapter 4 Table 4.7			
ŀ				
)	Current Water Coverage (%) (by water consump	otion at faucets)		94%
	(6m3*11PF+0.53m3*151HC)=146m3/day 146r		7.802 populati	
ŀ	Current Water Coverage (%) (by data of water s		r-Parati	203%
	((3.0+8.0L)*3600sec.*8hrs)=316800L/day 316		7802population	
	Water Potential (A / B / C / D / E)	1		В
2	Accessibility (A / B / C / D / E) A=Asphalt/B=I	Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	A/A
	700m (Approx.) from Asphalt road A=Road Wic			
	Access road from Butajira 22km is asphalt paved	1.* Refer to Chapter 5 "Table 5-7: Categories	of accessibilit	
3	Manpower Capability of Water Supply Managen	nent by Water Office (point)		11
ĺ				
ĺ				
4	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
5	New Water Supply Plan			
-	Defends the Charten			
	Refer to the Chapter 6			
Ì	The facility can be designed in an Ethiopian stan		chnology. The	small town is on the
	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d	ifficult.	chnology. The	small town is on the
	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d		chnology. The	small town is on the
	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d	ifficult.	chnology. The	small town is on the
6	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res	ifficult.		
6	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d	ifficult.	chnology. The	
5 7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resulting Main Ethnic Group	ifficult.		
5 7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions	ifficult.	Marego, Gur	age
5 7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town	ifficult. cue Committee	Marego, Gur	
5 7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ifficult. cue Committee km	Marego, Gur Health Cente 25	age r, Private clinic, Drug stor
5 7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town	ifficult. cue Committee	Marego, Gur Health Cente 25 Mararia	age er, Private clinic, Drug stor 4,000
7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	ifficult. cue Committee km	Marego, Gur Health Cente 25 Mararia Dysentery	age r, Private clinic, Drug stor
7	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ifficult. cue Committee	Marego, Gur Health Cente 25 Mararia	age er, Private clinic, Drug stor 4,000
5 7 3	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	ifficult. cue Committee	Marego, Gur Health Cente 25 Mararia Dysentery	age er, Private clinic, Drug stor 4,000
6 7 8	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km persons / year	Marego, Gur Health Cente 25 Mararia Dysentery Farming	age er, Private clinic, Drug stor 4,000 2,000
6 7 8	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	km persons / year	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I	age r, Private clinic, Drug stor 4,000 2,000 H/Minicipality 0912082868
6 7 8	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities	km persons / year	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407
6 7 8 0	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis	age r, Private clinic, Drug stor 4,000 2,000 H/Minicipality 0912082868
6 7 8 0	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments:	km persons / year Interviewee	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed	age 4,000 2,000 4/Minicipality 0912082868 SO Chairman 0916280407 le Secretary 0916346277
6 7 8 0	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no write and the properties of the standard of the sta	km persons / year Interviewee	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed	age 4,000 2,000 4/Minicipality 0912082868 So Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member
7 3	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resemble Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no writh the sin his head all the information about the pipeline (the dia	km persons / year Interviewee	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed	age 4,000 2,000 4/Minicipality 0912082868 So Chairman 0916280407 de Secretary 0916346277 hed. One Committee Member
7 3	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resemble Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no writh the sin his head all the information about the pipeline (the diaconsumption, tariff, income.	km persons / year Interviewee	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed	age 4,000 2,000 4/Minicipality 0912082868 So Chairman 0916280407 de Secretary 0916346277 hed. One Committee Member
7 3	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resemble Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no writh the sin his head all the information about the pipeline (the dia	km persons / year Interviewee	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed	age 4,000 2,000 4/Minicipality 0912082868 So Chairman 0916280407 de Secretary 0916346277 hed. One Committee Member
6 7 8	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resonant Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no write with the pipeline (the diaconsumption, tariff, income.)	km persons / year Interviewee	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed	age 4,000 2,000 4/Minicipality 0912082868 So Chairman 0916280407 de Secretary 0916346277 hed. One Committee Member
6 7 8 9 0 1	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resemble Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no write with the properties of the diaconsumption, tariff, income. o (Town sketchetc.):	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 So Chairman 0916280407 de Secretary 0916346277 hed. One Committee Member
6 7 8 9 0 1 1	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no wrihas in his head all the information about the pipeline (the diaconsumption, tariff, income. o (Town sketchetc.): 04-02 Well spec. Well No.1; Established on 1969 / Depth G	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
6 7 8 9 0 1 1	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no wrihas in his head all the information about the pipeline (the diaconsumption, tariff, income. o (Town sketchetc.): 04-02 Well spec. Well No.1; Established on 1969 / Depth G	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
6 7 8 9 0 1	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Res Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no wrihas in his head all the information about the pipeline (the diaconsumption, tariff, income. o (Town sketchetc.): 04-02 Well spec. Well No.1; Established on 1969 / Depth G	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
6 7 8 9 0 0 em	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Waid, Resemble Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no writh the sin his head all the information about the pipeline (the diaconsumption, tariff, income. o (Town sketchetc.): 04-02 Well spec. Well No.1; Established on 1969 / Depth G Well No.2; Established on 2010 by USAic	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Medical Seems of the Committee of the Commit	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
6 7 8 9 0 0 em	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resembler of Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no writh as in his head all the information about the pipeline (the diaconsumption, tariff, income. o (Town sketchetc.): 04-02 Well spec. Well No.1; Established on 1969 / Depth G Well No.2; Established on 2010 by USAic 04-06 Duration of water draw (Pump operation In the Control of the Con	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Medical Medical Seems of the Committee Medical Seems o	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
6 7 8 9 0 1	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Waid, Resemble Compose Service of Compose	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me L-208m / casing dia. 6"/ SWL GL-??m / 3.01 &Rescue Committee / Depth GL-84m / casin	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
6 7 8 9 0 1 1 em	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's US Aid, Resembler of Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities Particular comments: Remarks: The Water Committee does not even have own office, no writh as in his head all the information about the pipeline (the diaconsumption, tariff, income. o (Town sketchetc.): 04-02 Well spec. Well No.1; Established on 1969 / Depth G Well No.2; Established on 2010 by USAic 04-06 Duration of water draw (Pump operation In the Control of the Con	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me L-208m / casing dia. 6"/ SWL GL-??m / 3.01 &Rescue Committee / Depth GL-84m / casin	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water
77 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	The facility can be designed in an Ethiopian stan generally flat terrains, construction work is not d Other Donors, NGO's Waid, Resemble Compose Service of Compose	km persons / year Interviewee tten documents, they do not even know when the Commeters seem contradictory). And another Committee Me L-208m / casing dia. 6"/ SWL GL-??m / 3.01 &Rescue Committee / Depth GL-84m / casin	Marego, Gur Health Cente 25 Mararia Dysentery Farming : Fasika Seyfu I Afework Gatis Samuel Kebed iittee was establish mber has in his he	age 4,000 2,000 4/Minicipality 0912082868 so Chairman 0916280407 le Secretary 0916346277 hed. One Committee Member and all the information on water

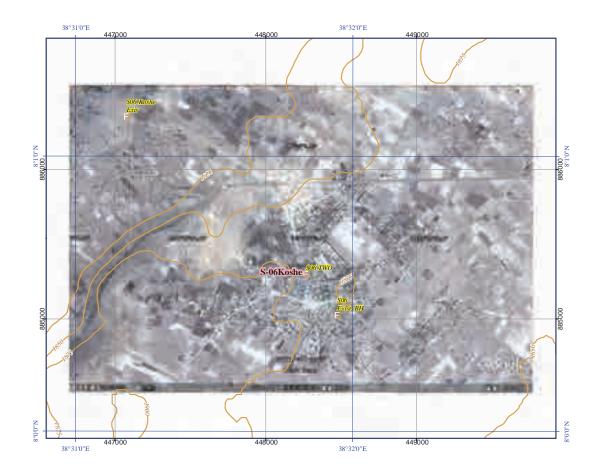
Conveyance pipe line Well No. 1 GIP dia.2" L=6.0m (On-Spot) / Well No.2 GIP dia.4" L=3,000m

Well No.1 Elevated Reservoir V=4.0m3*1 / Well No.2 Ground Reservoir V=100m3*1

Well No. 1 nil. (On-Spot) / Well No.2 GIP&PVC dia.1*1/2" ~ 4" L=2,850m

(Well No.2 = GIP 4"*500m +PVC 3"*1,950m+ GIP 1*1/2"*400m Total 2,850m) Water reservoir Distribution pipe line

S-06 Koshe



S-07 Lisana

	SNNPR					6 /		
	Name of small town :		Li	sana	***************************************	S- 0		
	Name of Woreda :			mmo		SW- 0	4	
	Name of Zone :		Ha	adiya		SZ- 0	2	
		ïle items				Profile		!
01	Population Town male /	female / total	L. CNNIDD		900	921	1.711	
		female / total	by SNNPR by Census 2007		890 58,663	821 59,915	1,711 118,578	
	percentage of Town in Woreda	remare / total	by Census 2007		36,003	37,713	1.4%	
02		(Adindan)	Easting / Northig /	Alt.	382047	830873	2,157	
	Town Status				Town Administ	ration		
04	Water Source		т м		BH Well * 1no			
	04-01 Water source 04-02 Well spec.	I	Type, No. Depth., Casing Dia., S.V	VI Vield			lm 6L/sec	
	04-03 Method of water draw		Pump, Gravity	v.L, Ticiu	Pump	0 , GL-07.21	iii, or/sec.	
	04-04 Pump Spec.		Type, Yield		Motorized pum	p		
	04-05 Power source for motorized pump		Type, Kva		Commercial Ele			
	04-06 Durartion of water draw (Operation	hours)	daily hours, time		07:00-12:00 &	15:00-18:00	(8hrs/day)	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideet	c.	Good			
	04-08 Other technical specimen				•			
05	Existing Water Supply Facilities							
-	05-01 Established year		(Gregorian calenda	ar)	1999			
	05-02 Financial of implementation		Donor's name		SNNPR			
	05-03 Name of implementation (Project na	ame)			Liasa water pro	ject, SNNPR		
	05-04 Intake Type				Well			
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ I	Dagamain	Pipe material, leng	+b	1no. GIP, 2*1/2", 2,	500m		
	05-07 Power to convey	Keservoir)	Pressure, Gravity	ш	Pressure	JUUIII		
	05-07 Fower to convey		Disinfection, Iron	etc.	nil.			
	05-09 Water treatment capacity		m3/day		nil.			
	05-10 Water reserver type		Туре		E.R (Roto Tank	:)		
	05-11 Water reserver No.		no.		2nos.			
	05-12 Water reserver Capacity		m3	.1	10m3 * 2nos.			
	05-13 Transmission Type (Booster pump S 05-14 Power to transmit	Stn. ~ Reservoir)	Pipe material, leng Pressure, Gravity	th	nil.			
	05-14 Fower to transmit 05-15 Distribution Type		Pipe material, leng	th	See below men	10		
	05-16 Power to distribute		Pressure, Gravity		Gravity			
	05-17 Structure Type of water point (Publi	ic Faucet, PF)	RC, Masonry, P	ipeetc.	Mansonry			
	05-18 Number of water point (Public Fauc		no.		6			
	05-19 Number of faucet at a water point (F		no.		6			
	05-20 Average of daily water consumption 05-21 Number of House Connection (HC)	n at a water point (PF) m3/day		16m3/day			
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of	House Connection(F	HC) m3/day		0.3m3/day	***************************************		
	05-23 Number of Business Conection (BC		ic) m5/day		2			
	05-24 Type of Business Connection (BC)	Factory, Sc	chool, Gov. office, Hosp	oitaletc.	School*1, Heal	th Center*1		
	05-25 Average of daily water consumption of B	usiness Connection (BC) m3/day		0.3m3/day			
	05-26 Other technical specimen							
0.0	O C IM:							
06	Operation and Maintenace 06-01 Organization's name				Lisana area wat	er sunly syste	em	
	06-01 Organization's name 06-02 Type of organization		Regional, Zone, Enterp	orice, etc.	Community bas			
	06-03 Number of thechnical staff		ground, Lone, Litter		1			
	06-04 Principal works of technical staff		***************************************		Pump operation	1		
	06-05 Number of the financial staff				5			
	06-06 Principal works of financial staff				Water sale, Bill			
	06-07 Categories of water tariff	1	W.Point, House Connec	tionetc.	W. Point, Hous	e connection		
	06-08 Water tariff rate Water point (Public faucet)		Birr/L, 20L		0.3birr/20L			
	House connection		Birr/m3		8birr/m3			
	Business connection		Birr/m3	***************************************	nil.	***************************************		
	06-09 Average monthly income by water t		Birr/month		6,500birr/montl	1		
	06-10 Procurement of spare parts	at To	own, Zonal Cap. Reg. C					
	06-11 Principal spare parts		Oil filter, Fuel filter, P					
	06-12 Method in case of serious repair		nal office, Private comp	anyetc		. huol		
	06-13 Principal serious repair with 5-10 ye 06-14 Fund for above 6-09, 6-10		Organization, Gov., Dor	nors etc	Pipefittings line	broken		
	06-15 Other technical specimen	Бу С	Jiganization, Gov., Doi	1013 ElC.	Community			
	Fig. 1. Section 1. Sec				•			

S-07 Lisana

07	Problem of actual town water supply				
	07-01 Technical				
	Water source Quantity, Qualityetc.		ge, Elec. Blacl		!
	Water supply facility Decrepit, leakage, design failureetc	Design failure	e (water leaka	ge)	
	07-02 Finalcial				
	Management	Not grasped			
	Rate of water tarrif collection	Not grasped			
	Personnel expenses	low			
	Shortage of budget to execute operation & maintenace	Shortage bud	get for O&M		
	07-03 Other incidential, Special specimen				
	Increase in population to consume water coming from other towns, villagesetc	Coming from	villagers		
	Change in industry increase factory, Tradingetc.	Increase grain	n production		
	Human conflict Ethnic, Administrativeetc	nil.			
	07-04 Other specimen				
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))			
	Town is on flat area				
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
10	Current Water Coverage (%) (by water consumption at faucets)		283		!
	(16m3*6PF+0.3m3*1HC+0.3m3*2BC)=96.9m3/day 96.9m3/20Lpcd.= 4,845persons 4,845	persons / 1,71			
	Current Water Coverage (%) (by data of water source product))		505	%	
	((6.0L)*3600sec.*8hrs)=172800L/day 172800/20Lcd=8640persos 8640persons/1711popul	ation=505%			
11	Water Potential (A / B / C / D / E)		В		
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B /	A	
	A=Road Width > $6 \text{m /B} = 3 \text{-}6 \text{m / C} = 1 \text{-}3 \text{m / D} = < 1 \text{m}$				
	Sub grade road at 7km approx from Hosaina* Refer to Chapter 5 "Table 5-7: Categories of ac	cessibility"			
13	Manpower Capability of Water Supply Management by Water Office point)		13	3	
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
	Refer to the Chapter 6				
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is	on the	
	generally flat terrains, construction work is not difficult.				
16	Other Donors, NGO's				
17	Main Ethnic Group	Hadiya Amb	0#0		
1/	Main Edinic Group	Hadiya, Amh	ara		
10	Health conditions				
10		r, Private clin	ic Drug store	Health nos	-
	-2 Nearest other facilities from Town km	15	ic, Drug store	, ricaitii pos	
	-3 Main patients of water born diseases persons / year	Mararia	1,000		
	-5 Wain patients of water both diseases persons / year	Dysentery	1,000		
		Typhoid	1,000		
		Diarrhea	50		
19	Main economic activities	Trade, Farmin			
			6		
20	Particular comments :				
	Town population is less than 2,000 persons in accordance with list of the candidate small town	ıs.			

21	Remarks:				
Men	no (Town sketchetc.):				
				2	
	05-15 Distribution Type				
	GIP&PVC 2*1/2"=3,000m PVC 1/2"=120m Total L=3,120m				
				•	
L				:	

S-07 Lisana



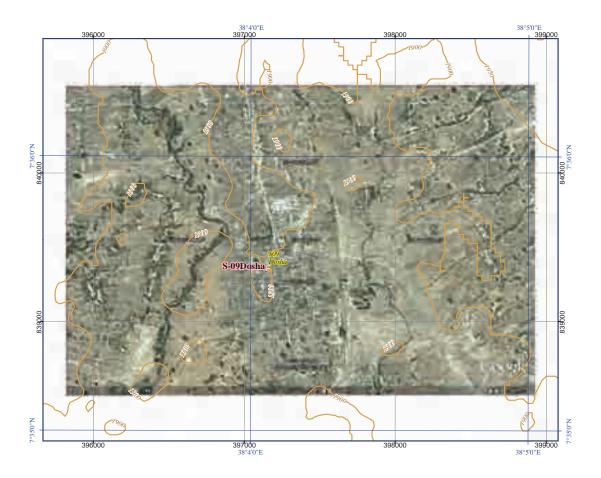
S-09 Dosha

	SNNPR		7 /	/ 52
	Name of small town : Do	osha	S- (09
	Name of Woreda : Sha	shago	SW-	05
	Name of Zone : Ha	adiya	SZ- (02
	Profile items		Profile	!
01	Population Town male / female / total by SNNPR Woreda male / female / total by Census 2007 percentage of Town in Woreda		920 961 51,777 50,687	1,881 102,464 1.8%
_	Town Coordination UTM (Adindan) Easting / Northig /	Alt.	397071 839228	1,930
	Town Status		Municipality	
04	Water Source Type, No.		BH Well * 3nos.	
	04-02 Well spec. Depth., Casing Dia., S.W	V.L, Yield		
	04-03 Method of water draw Pump, Gravity		Pump	
	04-04 Pump Spec. Type, Yield		Handpump	
	04-05 Power source for motorized pump Type, Kva		Manual	
	04-06 Durartion of water draw (Operation hours) daily hours, time 04-07 Water quality Iron, Fluorideetc	c	Not grasped Not grasped	
	04-08 Other technical specimen	С.	110t grasped	
L				
05	Existing Water Supply Facilities			
	05-01 Established year (Gregorian calendar		1987 / 2007	
	05-02 Financial of implementation Donor's name 05-03 Name of implementation (Project name)		Kakehiwot / Unicef&NCA Dosha water project,	1
	05-04 Intake Type		Well (Shallow well)	
	05-04 Intake Type 05-05 Intake No.		3nos.	
	05-06 Conveyance Type (Water source ~ Reservoir) Pipe material, lengt	th	nil.	
	05-07 Power to convey Pressure, Gravity		nil.	
	05-08 Water treatment Disinfection, Iron .		nil.	
	05-09 Water treatment capacity m3/day		nil.	
	05-10 Water reserver type Type		nil.	
	05-11 Water reserver No. no. 05-12 Water reserver Capacity m3		nil.	
	05-12 water reserver Capacity in S 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, lengt	th	nil.	
	05-14 Power to transmit Pressure, Gravity		nil.	
	05-15 Distribution Type Pipe material, lengt	th	nil.	
	05-16 Power to distribute Pressure, Gravity		nil.	
	05-17 Structure Type of water point (Public Faucet, PF) RC, Masonry, Pi		nil.	
	05-18 Number of water point (Public Faucet, PF) no.		nil.	
	05-19 Number of faucet at a water point (Public Faucet, PF) no. 05-20 Average of daily water consumption at a water point (PF) m3/day		nil. 3.6m3/day	
	05-21 Number of House Connection (HC)		nil.	
	05-22 Average of daily water consumption of House Connection(HC) m3/day		nil.	
	05-23 Number of Business Conection (BC)		nil.	
	05-24 Type of Business Connection (BC) Factory, School, Gov. office, Hospi	italetc.		
	05-25 Average of daily water consumption of Business Connection (BC) m3/day		nil.	
	05-26 Other technical specimen			
06	Operation and Maintenace			
	06-01 Organization's name		Water committee	
	06-02 Type of organization Regional, Zone, Enterp	riceetc.	Community based organiza	ation
	06-03 Number of thechnical staff		nil.	
	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		3 W-+	
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, House Connect	tion atc	Water sale W. point (Handpump)	
	06-08 Water tariff rate w.Point, House Connect	nonetc.	11. point (Hanupump)	
	Water point (Public faucet) Birr/L, 20L		0.05birr/20L	
	House connection Birr/m3		nil.	
	Business connection Birr/m3		nil.	
	06-09 Average monthly income by water tariff Birr/month		2,700birr.month	
	06-10 Procurement of spare parts at Town, Zonal Cap. Reg. Ca		Bonosya	
	06-11 Principal spare parts Oil filter, Fuel filter, Pi 06-12 Method in case of serious repair by Regional office, Private comparts			
	06-12 Method in case of serious repair by Regional office, Private compa 06-13 Principal serious repair with 5-10 years	anyetc	Woreda nil.	
	06-14 Fund for above 6-09, 6-10 by Organization, Gov., Done	ors etc	Water committee, SNNPR	
	06-15 Other technical specimen	.010010.		
l	<u> </u>			

S-09 Dosha

	Problem of actual town water supply		
	07-01 Technical		
	Water source Quantity, Qualityetc.	Water shorta	
	Water supply facility Decrepit, leakage, design failureetc	Design failu	re (suction valve level)
	07-02 Finalcial		
	Management	Not grasped	
	Rate of water tarrif collection	Not grasped	
	Personnel expenses	Not grasped	
	Shortage of budget to execute operation & maintenace	Not grasped	
	07-03 Other incidential, Special specimen		
	Increase in population to consume water coming from other towns, villagesetc	coming from	villagers
	Change in industry increase factory, Tradingetc		
	Human conflict Ethnic, Administrativeetc		
	07-04 Other specimen		
	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.		
,	Town is on flat area.	,	
)	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
)	Current Water Coverage (%) (by water consumption at faucets)	001 1.1	10%
	(??m3*??PF+0m3*0HC+0m3*0BC)=??m3/day 3.6m3/20Lpcd.=180persons 180persons/1,	881 populatio	·
	Current Water Coverage (%) (by data of water source product))	220/	?? %
	(((??L+??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/1881population=	? !%	n n
l	Water Potential (A/B/C/D/E)		В
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	B / B
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m		-
	Access is Asphalt & Sub grade road from Hosaina. (=18+10km) * Refer to Chapter 5 "Table	5-7: Categori	i
3	Manpower Capability of Water Supply Management by Water Office (point)		6
4	Dgree of urgency (A / B / C / D / E)		
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7		
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7		
	Refer to Chapter 5 & 7		
	Refer to Chapter 5 & 7 New Water Supply Plan		
	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6	chnology. The	e small town is on the
	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The	e small town is on the
5	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.	chnology. The	e small town is on the
5	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The	small town is on the
5	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's		e small town is on the
5	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.	hnology. The	e small town is on the
5 6	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's		e small town is on the
5 6	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions	Hadiya	
5 6	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center	Hadiya	nic, Drug store, Health po
5 6	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km	Hadiya er, Private clir	nic, Drug store, Health po
5 6	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km	Hadiya er, Private clii 39 Mararia	nic, Drug store, Health po
5 6	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km	Hadiya er, Private clir 39 Mararia Typhoid	nic, Drug store, Health po 6,131 2,800
5 7	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km	Hadiya er, Private clii 39 Mararia Typhoid Dysentery	nic, Drug store, Health po
5 7 3	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km	Hadiya er, Private clir 39 Mararia Typhoid	nic, Drug store, Health po 6,131 2,800 251 532
5 6 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Hadiya er, Private clii 39 Mararia Typhoid Dysentery others	nic, Drug store, Health po 6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center 2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Hadiya er, Private clii 39 Mararia Typhoid Dysentery others	nic, Drug store, Health po 6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Km -3 Main patients of water born diseases Persons / year Main economic activities	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	nic, Drug store, Health po 6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Km -3 Main patients of water born diseases Persons / year Main economic activities Particular comments:	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	nic, Drug store, Health po 6,131 2,800 251 532
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral New Year Health Centeral New Year -3 Main patients of water born diseases Persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	nic, Drug store, Health po 6,131 2,800 251 532
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Km -3 Main patients of water born diseases Persons / year Main economic activities Particular comments:	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	nic, Drug store, Health po 6,131 2,800 251 532
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Ahemed Hamza Human resources adm. 0912243561	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centure Nearest other facilities from Town Km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & documen	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
777777777777777777777777777777777777777	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Main patients of water born diseases persons / year -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & documen Mr. Lemilo Wo ndu Manager of minicipality 0910455888	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centure Nearest other facilities from Town Km -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & documen	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centerally Main patients of water born diseases persons / year -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town persons / Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & document Mr. Lemilo Wo ndu Manager of minicipality 0910455888 (1) (Town sketchetc.):	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
55 66 88 99 00	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Main patients of water born diseases persons / year -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & document Mr. Lemilo Wo ndu Manager of minicipality 0910455888 to (Town sketchetc.): 04-02 Well spec.	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Health Centeral Nearest Openion (Nearest Openion Nearest Open	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi	6,131 2,800 251 532
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced ted generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town km -3 Main patients of water born diseases persons / year Main economic activities Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town for Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & documen for Mr. Lemilo Wo ndu Manager of minicipality 0910455888 (Crown sketchetc.): 04-02 Well spec. Well No.1; Established on 1987 / Depth GL-37m / casing dia. ??"/ SWL GL-??m / ??L/ Well No.2; Established on 2007 / Depth GL-30m / casing dia. ??"/ SWL GL-??m / ??L/ Well No.2; Established on 2007 / Depth GL-30m / casing dia. ??"/ SWL GL-??m / ??L/	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi tation office (6,131 2,800 251 532
55 66 88 99 00	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Health Centeral Nearest Openion (Nearest Openion Nearest Open	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi tation office (6,131 2,800 251 532
55 66 88 99 00	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced ted generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town km -3 Main patients of water born diseases persons / year Main economic activities Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town for Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & documen for Mr. Lemilo Wo ndu Manager of minicipality 0910455888 (Crown sketchetc.): 04-02 Well spec. Well No.1; Established on 1987 / Depth GL-37m / casing dia. ??"/ SWL GL-??m / ??L/ Well No.2; Established on 2007 / Depth GL-30m / casing dia. ??"/ SWL GL-??m / ??L/ Well No.2; Established on 2007 / Depth GL-30m / casing dia. ??"/ SWL GL-??m / ??L/	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi tation office (6,131 2,800 251 532
55 66 67 77 70 70 70	Refer to Chapter 5 & 7 New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced ted generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town km -3 Main patients of water born diseases persons / year Main economic activities Main economic activities Particular comments: Town population is less than 2,000 persons in accordance with list of the candidate small town for Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Ahemed Hamza Human resources adm. 0912243561 Mr. Mulushewa Haile, Minicipality recording & documen for Mr. Lemilo Wo ndu Manager of minicipality 0910455888 (Crown sketchetc.): 04-02 Well spec. Well No.1; Established on 1987 / Depth GL-37m / casing dia. ??"/ SWL GL-??m / ??L/ Well No.2; Established on 2007 / Depth GL-30m / casing dia. ??"/ SWL GL-??m / ??L/ Well No.2; Established on 2007 / Depth GL-30m / casing dia. ??"/ SWL GL-??m / ??L/	Hadiya er, Private clir 39 Mararia Typhoid Dysentery others Trade, Farmi tation office (6,131 2,800 251 532

S-09 Dosha



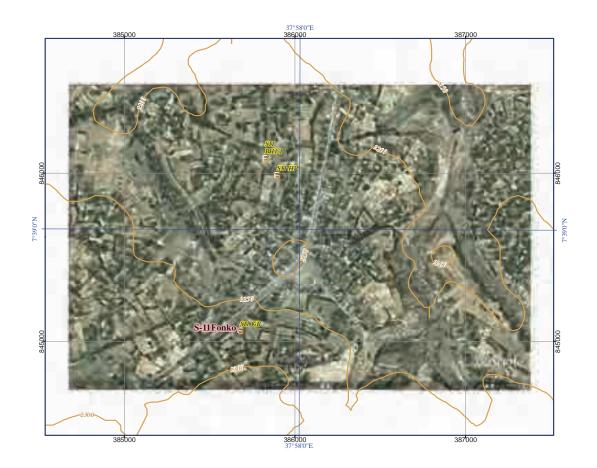
S-11 Fonko

	SNNPR				8 / 52		
	Name of small town :		Fonko		S- 11		
	Name of Woreda :		Analemmo		SW- 07		
	Name of Zone :		Hadiya	T	SZ- 02		
	Pr	ofile items			Profile		!
01	Population				4.40.		
		/ female / total / female / total	by SNNPR by Census 2007	1,185 35,959	1,195 37,249	2,380 73,208	
	percentage of Town in Woreda	/ Telliale / total	by Celisus 2007	33,939	31,249	3.3%	
02		I (Adindan)	Easting / Northig / Alt.	385587	844936	2,284	
	Town Status			Town Administr	ration		
04	Water Source			W. U.O. (0/0	1 TTD 1 1		
	04-01 Water source 04-02 Well spec.	Don	Type, No. th., Casing Dia., S.W.L, Yield	Well*2nos. (2/2			
	04-02 Well spec. 04-03 Method of water draw	Дер	Pump, Gravity	Pump	5 , GL-33.3III,	OL/SEC.	
	04-04 Pump Spec.		Type, Yield	Motorized pump	/ Hand pump (a	bandon)	
	04-05 Power source for motorized pump		Type, Kva	Commercial Ele	c. / Manual		
	04-06 Durartion of water draw (Operation	n hours)	daily hours, time	06:00~09:00 + 1	hr. (4hrs./day)	
	04-07 Water quality		Iron, Fluorideetc.	Good			
	04-08 Other technical specimen						l
05	Existing Water Supply Facilities						
	05-01 Established year		(Gregorian calendar)	1999			
	05-02 Financial of implementation		Donor's name	SNNPR			
	05-03 Name of implementation (Project	name)		Fonko water sup	pply project		
	05-04 Intake Type			Well 2nos.			ļ
	05-05 Intake No. 05-06 Conveyance Type (Water source -	Reservoir)	Pipe material, length	GIP, 2", 1,500m			
	05-07 Power to convey	- Keservoir)	Pressure, Gravity	Pressure / Manu	Account to the second to the s		
	05-08 Water treatment		Disinfection, Ironetc.	nil.			
	05-09 Water treatment capacity		m3/day	nil.			
	05-10 Water reserver type		Type	GR			
	05-11 Water reserver No.		no.	1no.			ļ
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump	. Ct D	m3	50m3 nil.			
	05-14 Power to transmit	Sin. ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.			
	05-14 Fower to transmit 05-15 Distribution Type		Pipe material, length	See below mem	0		
	05-16 Power to distribute		Pressure, Gravity	Gravity			
	05-17 Structure Type of water point (Pul	olic Faucet, PF)	RC, Masonry, Pipeetc.	Monsonry			
	05-18 Number of water point (Public Fa		no.	5 (2 fonction)			
	05-19 Number of faucet at a water point		no.	6			
	05-20 Average of daily water consumpti		m3/day	33m3/day nil.			!
	05-21 Number of House Connection (HO 05-22 Average of daily water consumption of		m3/day	nil.			
	05-23 Number of Business Conection (B		III5/day	nil.			
	05-24 Type of Business Connection (BC		ol, Gov. office, Hospitaletc.	nil.			
	05-25 Average of daily water consumption of	Business Connection (BC)	m3/day	nil.			
	05-26 Other technical specimen						
06	Operation and Maintenace						
00	06-01 Organization's name			Town water serv	vice		
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc			1	
	06-03 Number of thechnical staff		8	1			
	06-04 Principal works of technical staff			Pump operation			
	06-05 Number of the financial staff			2			
	06-06 Principal works of financial staff			Water sale at PF	7		
	06-07 Categories of water tariff	W.F	Point, House Connectionetc.	W. point			
	06-08 Water tariff rate Water point (Public faucet)		Birr/L 20L	0.1birr/20I			-
			Birr/m3	nil.			ļ
	Business connection		Birr/m3	nil.			<u> </u>
	06-09 Average monthly income by water		Birr/month	4,000birr/month	***************************************		
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.		Ababa		
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc				ļ
			office, Private companyetc		un al		
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	anization Gov Depore ata		inei		ļ
		by Orga	anzation, Gov., Dollotsetc.	Committee			ļ
	- Said Common Specifici						<u> </u>
	Water point (Public faucet) House connection Business connection 06-09 Average monthly income by wate. 06-10 Procurement of spare parts	at Town Oi by Regional years	Birr/m3 Birr/month , Zonal Cap. Reg. Capetc.	nil. 4,000birr/month Hosaina, Addis Pipe&fittings Zone, Region Pump control pa	Ababa		

S-11 Fonko

r	Problem of actual town water supply 07-01 Technical			
l	Water source Quantity, Qualityetc.	Shortage wat	er	
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		
ļ	07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	low		
L	Shortage of budget to execute operation & maintenace	Not grasped		
-	07-03 Other incidential, Special specimen	TD	1 1, 337 1	
	Increase in population to consume water coming from other towns, villagesetc  Change in industry increase factory, Tradingetc.	I own status i	s changed to woreda	
ŀ	Human conflict Ethnic, Administrativeetc		ing	
ŀ	07-04 Other specimen	11111.		
ř	07-04 Other specimen			
)8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)		
	Ridge of mountatin along asphalt road	<u> </u>		
	<u> </u>			
	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
1.0		ı	1000	-
	Current Water Coverage (%) (by water consumption at faucets)	/ 2 200	139%	!
	(33m3*2PF+0m3*0HC+0m3*0BC)=66m3/day 66m3/20Lpcd.= 3,300persons 3,300person	s / 2,380 popu		
	Current Water Coverage (%) (by data of water source product))  ((6.01) \\$2600coc \\$8\rs\-1728001 (dog. 173800201 ed-\\$640\rs\cs\s\s\). 8640\rs\cs\s\s\(280\rs\cs\s\s\)	otion=2620/	363%	
	((6.0L)*3600sec.*8hrs)=172800L/day 172800/20Lcd=8640persos 8640persons/2380popul Water Potential (A / B / C / D / E)	auon=303%	В	-+
11	water Potential (A/B/C/D/E)		Б	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	A/A	-+
-	A=Road Width $> 6$ m $/$ B= $>3$ ~6m $/$ C= 1~3m $/$ D= $<$ 1m	Търргоценец	71/71	_
ŀ	Along asphalt road at 17km approx from Hosaina * Refer to Chapter 5 "Table 5-7: Categories	of accessibili		
	Manpower Capability of Water Supply Management by Water Office (point)		10	
Ì	S. S			
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
[				
	New Water Supply Plan			
	Refer to the Chapter 6			
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The	small town is on the g	entle
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.	chnology. The	small town is on the g	entle
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The	small town is on the g	entle
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.	hnology. The	small town is on the g	entle
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's		small town is on the g	entle
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.	hnology. The Hadiya	small town is on the g	entle
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's		small town is on the g	entle
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group	Hadiya		
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Hadiya	small town is on the g	
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Hadiya Health Cente		
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Hadiya  Health Cente	r, Private clinic, Drug	
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Hadiya  Health Cente 18  Mararia Typhoid Dysentery	r, Private clinic, Drug 3,932 1,035 130	
16 17	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea	r, Private clinic, Drug 3,932 1,035 130 89	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
116	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
116	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	
117 118 119 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techills, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Remarks:	Hadiya  Health Cente 18  Mararia Typhoid Dysentery Diarrhea others	3,932 1,035 130 89 1,107	

S-11 Fonko



S-12 Wada

	SNNPR			9 / 52	
	Name of small town :	Wada		S- 12	
	Name of Woreda :	Mirab Badawo	cho	SW- 08	
	Name of Zone :	Hadiya		SZ- 02	
	Profile items		F	rofile	!
01	Population				
	Town male / female / total	by SNNPR	1,020	1,093	2,113
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	40,871	42,556	83,427 2.5%
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	367494	789747	1,718
_	Town Status		Municipality		
04	Water Source 04-01 Water source	Type, No.	Spring*1no., We	ll (Shallow)*2r	100
		epth., Casing Dia., S.W.L, Yield		ii (Silaiiow) 21	103.
	04-03 Method of water draw	Pump, Gravity	Gravity / Pump		
	04-04 Pump Spec.	Type, Yield	nil. / Handpump		
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours)	Type, Kva daily hours, time	nil. / Manual 24hrs. / 06:00-12:00,	13:00-20:00 (13hr	s./day)
	04-07 Water quality	Iron, Fluorideetc.	Good		
	04-08 Other technical specimen				
05	Evicting Woton Cynnly Facilitie				
US	Existing Water Supply Facilities 05-01 Established year	(Gregorian calendar)	?? / 2010		
	05-02 Financial of implementation	Donor's name	SNNPR / Cathlic	church	
	05-03 Name of implementation (Project name)		Wada water supp		
	05-04 Intake Type 05-05 Intake No.		Spring (On-spot) 1no. / 2nos (1 fu		v well)
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.	iiciioii)	
	05-07 Power to convey	Pressure, Gravity	nil.		
	05-08 Water treatment	Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity 05-10 Water reserver type	m3/day Type	nil. nil.		
	05-10 Water reserver No.	no.	nil.		
	05-12 Water reserver Capacity	m3	nil.		
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit 05-15 Distribution Type	Pressure, Gravity Pipe material, length	nil. nil.		
	05-16 Power to distribute	Pressure, Gravity	nil.		
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	nil.		
	05-18 Number of water point (Public Faucet, PF)	no.	nil.		
	05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (Pt	no. F) m3/day	nil. 0.6m3/day		
	05-21 Number of House Connection (HC)	.) III3/day	nil.		
	05-22 Average of daily water consumption of House Connection(HC	m3/day	nil.		
	05-23 Number of Business Conection (BC)	ool, Gov. office, Hospitaletc.	nil.		
	05-24 Type of Business Connection (BC) Factory, School Connection (BC) Factory, Fa		nil.		
	05-26 Other technical specimen	- /			
		-			
06	Operation and Maintenace 06-01 Organization's name		Wada 01 kebele	water system	
	<u> </u>	Regional, Zone, Enterpriceetc.	Community base		
	06-03 Number of thechnical staff		nil.		
	06-04 Principal works of technical staff		nil.		
	06-05 Number of the financial staff 06-06 Principal works of financial staff		nil. nil.		
		Point, House Connectionetc.		ump)	
	06-08 Water tariff rate				
	Water point (Public faucet)	Birr/L, 20L	1.0birr/month/ho	usehold	
1	House connection  Business connection	Birr/m3 Birr/m3	nil. nil.		
	06-09 Average monthly income by water tariff	Birr/month	nil.		
	06-10 Procurement of spare parts at Tow	vn, Zonal Cap. Reg. Capetc.	nil.		
	06-11 Principal spare parts (	Oil filter, Fuel filter, Pipesetc			
	06-12 Method in case of serious repair by Regiona 06-13 Principal serious repair with 5-10 years	al office, Private companyetc	Woreda Handpump broke	·n	
		ganization, Gov., Donorsetc.		-11	
	06-15 Other technical specimen				
1					

S-12 Wada

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wa		
	Water supply facility Decrepit, leakage, design failure	etc.facility are li	imited	
	07-02 Finalcial			
	Management	NT-4		
	Rate of water tarrif collection	Not grasped low		
	Personnel expenses Shortage of budget to execute operation & maintenace		dget for O&M	
	07-03 Other incidential, Special specimen	Shortage but	uget for Oxivi	
	Increase in population to consume water coming from other towns, villages	etc caming from	villages	
	Change in industry increase factory, Trading		i villages	
	Human conflict Ethnic, Administrative			
	07-04 Other specimen	0.00,		
		***************************************	***************************************	
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgee	tc.)		
	Town is on the hill and slight slope.			
09				
	Refer to Chapter 4 "Table 4.7"			
1.0	C W C W C		2-1	<del>-   .</del>
10	Current Water Coverage (%) (by water consumption at faucets)	/2.112 1 :	3%	!
	(0.6m3*2PF+0m3*0HC+0m3*0BC)=1.2m3/day 1.2m3/20Lpcd.= 60persons 60persons	/ 2,113 populati	·	
	Current Water Coverage (%) (by data of water source product)) ((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/2113population=??%		?? %	
1.1	$\frac{((?L)^*5000\text{sec.}^*8\text{nrs})=??L/\text{day}}{\text{Water Potential}} \frac{??/20L\text{cd}=??\text{persons}}{?\text{persons}/2113\text{population}=??\%}$		Е	
11	water Potential (A/B/C/D/E)		E	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=	Not Approached	E/E	
12	A=Road Width $> 6$ m /B= $>3$ ~6m / C= $1$ ~3m / D= $<1$ m		E/E	
	Access is Sub Grade road 16km approx. from Asphalt road * Refer to Chapter 5 "Table 5-		1	
13	Manpower Capability of Water Supply Management by Water Office point)		5	
10	The state of the s			
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			***************************************
15	New Water Supply Plan			
	Refer to the Chapter 6			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced	technology. The	e small town is on t	the gentle
	hills, construction work is not difficult except water sources.			
16	Other Donors, NGO's			
	Cathlic church			
	VI DI LO			
17	Main Ethnic Group	Hadiya		
1.0	TT 14 12			
18	Health conditions	IIlth Ct	IIld	
	-1 Medical facilities in Town -2 Nearest other facilities from Town km		er, Health post	
		70 Typhoid	4,000	
	-3 Main patients of water born diseases persons / year	Dysentery	3,900	
		Diarrhea	3,000	
		Malaria	1,972	
19	Main economic activities	Firming, Liv		
-				
20	Particular comments:			
	Out of the study area.			
21	Remarks:			
	Spring is 1,500m from town.			
	Mr. Dawit Daniel Minicip			
	Mr. Kebede Sodano Supp	lies officer Mob	. 0910442984	
Men	no (Town sketchetc.):			
	w			
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S-12 Wada



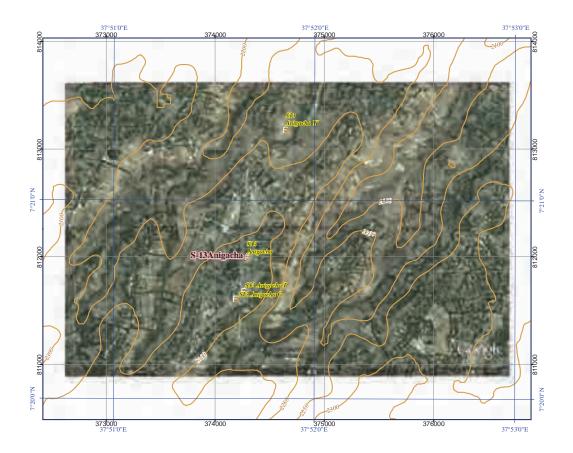
S-13 Anigacha

01 02 03 04	Name of small town Name of Woreda Name of Zone  Population Town Woreda percentage of Town in Wo Town Coordination Town Status	Profile items  male / female / total male / female / total	Anigacha Anigacha Kembaya Timb		S- 13 SW- 09 SZ- 03	
01 02 03 03 04	Name of Zone  Population Town Woreda percentage of Town in Wo Town Coordination	Profile items  male / female / total male / female / total	Kembaya Timb		SZ- 03	
01 02 03 04	Population Town Woreda percentage of Town in Wo Town Coordination	Profile items  male / female / total male / female / total				_
02 03 04	Town Woreda percentage of Town in Wo Town Coordination	male / female / total male / female / total		Pr	ofile	
02 03 04	Town Woreda percentage of Town in Wo Town Coordination	male / female / total				!
03	Woreda percentage of Town in Wo Town Coordination	male / female / total				
03	percentage of Town in Wo Town Coordination		by SNNPR	3,486	3,325 6,8	
03	Town Coordination		by Census 2007	44,042	44,018 88,0	
03		UTM (Adindan)	Easting / Northig / Alt.	374202	811859 2,3	7%
04		O I W (Admidan)	Lasting / Norting / Ait.	Woreda Capital	611639 2,3	)13
	Water Source					
	04-01 Water source		Type, No.	Well*1		
	04-02 Well spec.	De	epth., Casing Dia., S.W.L, Yield		-88m, 5.5L/sec.	
	04-03 Method of water draw		Pump, Gravity	Pump	151)	
	04-04 Pump Spec. 04-05 Power source for motorize	danma	Type, Yield Type, Kva	Motorized pump ( Commercial Elec.	····	
	04-05 Power source for motorized 04-06 Durartion of water draw (C		daily hours, time	06:00-10:30, 13:30-1		ıv)
j.,	04-07 Water quality	rperation nours)	Iron, Fluorideetc.	Good	7.50 / day (0.51115/day	37
	04-08 Other technical specimen		11011, 11110111111111111111111111111111			
ľ						
	Existing Water Supply Facilities					
	05-01 Established year		(Gregorian calendar)	2000		
	05-02 Financial of implementation		Donor's name	UNICEF		
	05-03 Name of implementation (	Project name)		Anigacha water pr Well	oject	
	05-04 Intake Type 05-05 Intake No.			weii		
	05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	GIP, 3", 2,800m		
	05-07 Power to convey	iouree reservoir)	Pressure, Gravity	Pressure		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
H	05-10 Water reserver type		Туре	GR		
	05-11 Water reserver No.		no.	GR*3nos.		
	05-12 Water reserver Capacity	G. D : \	m3	50m3, 10m3*2nos	5.	
1	05-13 Transmission Type (Boost 05-14 Power to transmit	er pump Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity			
į.	05-15 Distribution Type		Pipe material, length	GIP, 3"&21/2", 3,0	000m	
į,	05-16 Power to distribute		Pressure, Gravity	Gravity	000111	
	05-17 Structure Type of water po	int (Public Faucet, PF)	RC, Masonry, Pipeetc.			
	05-18 Number of water point (Pu		no.	10		
	05-19 Number of faucet at a water		no.	4		
	05-20 Average of daily water cor		F) m3/day	1.0 m3/day		
1.	05-21 Number of House Connect		3)	266		
L	05-22 Average of daily water consul 05-23 Number of Business Coned		C) m3/day	0.4m3/day 15		
L.	05-24 Type of Business Connecti		nool, Gov. office, Hospitaletc.		Church*6 Hospital	1*1
	05-25 Average of daily water consum		, , , , , , , , , , , , , , , , , , ,	0.2m3/day	Charen o, Hospital	-
- 1	05-26 Other technical specimen			nil.		
	***************************************					
	Operation and Maintenace				***************************************	
	06-01 Organization's name			Town water office	<u>,                                      </u>	
ļ.,	06-02 Type of organization		Regional, Zone, Enterpriceetc.			
	06-03 Number of thechnical staff 06-04 Principal works of technical			Dump operation D	lina nanain	
-	06-05 Number of the financial sta			Pump operation, P	ipe repair	
	06-06 Principal works of financia			Bill corrction, Wate	er meter reading	etc.
	06-07 Categories of water tariff		7.Point, House Connectionetc.	W. Point, House C		
	06-08 Water tariff rate					
۲	Water point (Public faucet)	)	Birr/L, 20L	0.2 birr/20L		
Ĺ	House connection		Birr/m3	3.5 birr/m3, Water Me	eter lease 2.0birr/mont	ıth
Ì	Business connection		Birr/m3	ditto		
	06-09 Average monthly income b		Birr/month	3,100 birr/month (sa		
	OC 10 D	at Tov	wn, Zonal Cap. Reg. Capetc.	riosaina, Snesnem	ane, Audis Ababa	1
	06-10 Procurement of spare parts		Oil filter Fuel filter Dines ata	Water meter Dina	Tiffings	
	06-11 Principal spare parts	(	Oil filter, Fuel filter, Pipesetc			
	06-11 Principal spare parts 06-12 Method in case of serious i	repair by Regiona	Oil filter, Fuel filter, Pipesetc al office, Private companyetc		ional office	
	06-11 Principal spare parts	repair by Regiona h 5-10 years		Zonal office, Region Well Pump motor	ional office	

S-13 Anigacha

	/			
	Problem of actual town water supply			
	07-01 Technical			
	Water source	Quantity, Qualityetc.		ls, Transportation, Lack of
	Water supply facility	Decrepit, leakage, design failureetc	Skilled techn	icians
	07-02 Finalcial			
	Management		Not grasped	
	Rate of water tarrif collection		Not grasped	
	Personnel expenses		Not grasped	
	Shortage of budget to execute operation & mair	ntenace	Shortage bud	gets
	07-03 Other incidential, Special specimen		2	
		coming from other towns, villagesetc	Not grasped	
	Change in industry	increase factory, Tradingetc.		
	Human conflict	Ethnic, Administrativeetc		
	07-04 Other specimen	Etillic, Administrativeetc	nil.	
	07-04 Other specifien		1111.	
0	0 11 1 12 (01	1 C 11 TD C 1		
8		on, bottom of valley, Top of ridgeetc.)	)	
	Town: Slope of ridge, rolling, up and down			
9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
)	Current Water Coverage (%) (by water consumption	at faucets)		88%
	(1m3*10PF+0.4m3*266HC+0.2m3*15BC)/20Lpdc.=		ılation = 88%	**
	Current Water Coverage (%) (by data of water source			116%
	((5.5L)*3600sec.*8hrs)=158400L/day 158400/20Lcc		ulation=116%	
1	Water Potential (A / B / C / D / E)	4-1720persos 1720persons/0011pope	I   I   I   I   I   I   I   I   I   I	В
L	water folential (A/B/C/D/E)			В
_	A 777 (A / D / G / D / D )		1	D / D
2		Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B / B
		6m /B= >3~6m / C= 1~3m / D= <1m		
	From Hosaina Town to Anigacha Town is based courc		prox* Refer to	
3	Manpower Capability of Water Supply Management b	by Water Office (point)		13
	Office has not any document, record of the existing w			
4	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
	Refer to Chapter 3 & 7			
_	N. W. G. I DI			
5	New Water Supply Plan			
5	Refer to the Chapter 6			
5	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard,		hnology. The	small town is on the
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu		hnology. The	small town is on the
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's		hnology. The	small town is on the
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu		hnology. The	small town is on the
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's		hnology. The	small town is on the
5	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's		hnology. The Kembata	small town is on the
5	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide			small town is on the
5	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide			small town is on the
6 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group		Kembata	
6 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town	ult.	Kembata  Health Cente	small town is on the
ó 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Kembata  Health Cente	r, Private clinic, Drug stor
ó 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town	ult.	Kembata  Health Cente 31 Typhoid	r, Private clinic, Drug stor
5	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Kembata  Health Cente 31 Typhoid Malaria	r, Private clinic, Drug stor 5,000 3,000
7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km persons/year	Kembata  Health Cente 31 Typhoid Malaria Dysentery	r, Private clinic, Drug stor 5,000 3,000 1,775
7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km persons/year	Kembata  Health Cente 31 Typhoid Malaria	r, Private clinic, Drug stor 5,000 3,000 1,775
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km persons/year	Kembata  Health Cente 31 Typhoid Malaria Dysentery	r, Private clinic, Drug stor 5,000 3,000 1,775
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km persons/year	Kembata  Health Cente 31 Typhoid Malaria Dysentery	r, Private clinic, Drug stor 5,000 3,000 1,775
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
5 7 3	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been decommended.	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been decommended.	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been decommended.	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been decommended.	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:	km  persons / year  cluding surrouding villages, and frequen	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages and frequentlined.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages and frequentlined.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages and frequentlined.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de
6 7 8 0	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, generally flat terrains, construction work is not difficu Other Donors, NGO's Inter Aide  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Due to growth and water consumption of residents, in reducting water faucets), water coverage has been dec Remarks:  o (Town sketchetc.):	km persons / year  cluding surrouding villages, and frequentlined. Therefore, it to be expected the rational description of the surrouding villages and frequentlined.	Kembata  Health Cente 31 Typhoid Malaria Dysentery Farming, Tra tly damaged p	r, Private clinic, Drug stor 5,000 3,000 1,775 de

S-13 Anigacha



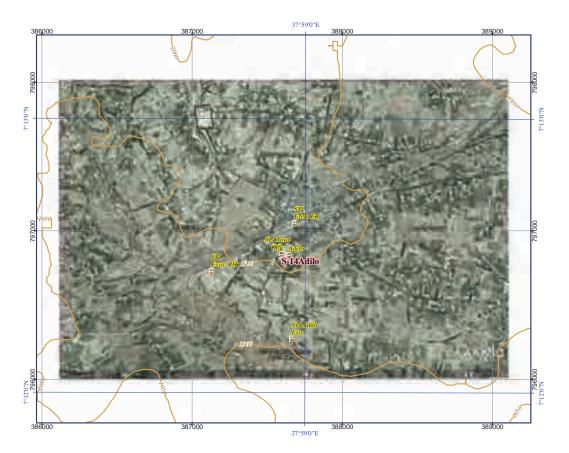
S-14 Adilo

SNNPR				11 / 52
Name of small town		Adilo		S- 14
Name of Woreda	•	Kedia Game		SW- 10
Name of Zone	:	Kembata Timb	paro	SZ- 03
	Profile items		Pre	ofile
01 Population			2.240	
Town Woreda	male / female / total male / female / total	by SNNPR by Census 2007	2,340 45,004	2,319 4,659 45,193 90,197
percentage of Town in W		by Celisus 2007	45,004	5.2%
02 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.		96712 1,955
03 Town Status			Municipality	
04 Water Source 04-01 Water source		Type, No.	Well*2nos.	
04-01 Water source 04-02 Well spec.		Depth., Casing Dia., S.W.L	see memo below	
04-03 Methor of water draw		Pump, Gravity	Pump	
04-04 Pump Spec.		Type, Yield	Motorized pump	
04-05 Power source 04-06 Durartion of water draw		Type, Kva daily hours, time	Generator 06:00-09:00 16:00	-18:00 (6hrs./day)
04-07 Water quality		Iron, Fluorideetc.	Good	-10.00 (OHIS./day)
04-08 Other technical specimen	1			
05 Eviating Water County E. W.				
05 Existing Water Supply Facilitie 05-01 Established year	*8	(Gregorian calendar)	1980 / 2009	
05-02 Financial of implemental	tion	Donor's name	SNNPR / World vi	sion
05-03 Name of implementation			Adilo water project	į į
05-04 Intake Type			Well 2	
05-05 Intake No. 05-06 Conveyance Type (Wate	r source ~ Reservoir)	Pipe material, length	GIP 2"*700m / GII	2.4"*2.000m
05-07 Power to convey	i source Treservoir)	Pressure, Gravity	Pressure	1 2,00011
05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment capacity	7	m3/day	nil. ER / GR	
05-10 Water reserver type 05-11 Water reserver No.		Type no.	ER*1no./GR*1no	1
05-12 Water reserver Capacity		m3	ER*8m3 / GR*50n	
05-13 Transmission Type (Boo	ster pump Stn. ~ Reservoir)	Pipe material, length	-	
05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	- On (On anot) for ER	/ 1*1/2"~4"=3,411m
05-16 Power to distribute		Pressure, Gravity	Gravity	/ 1 · 1/2 ~4 = 3,411111
05-17 Structure Type of water	point (Public Faucet, PF)	RC, Masonry, Pipeetc.	· · · · · · · · · · · · · · · · · · ·	
05-18 Number of water point (l		no.	1/6	
05-19 Number of faucet at a wa	ater point (Public Faucet, PF) onsumption at a water point (PF	no.	6 / 6 9.0m3/day	
05-20 Average of daily water c		f) m3/day	2.01113/day	
	sumption of House Connection(HC	) m3/day	3.0m3/day	
05-23 Number of Business Cor			nil.	
05-24 Type of Business Conne	ction (BC) Factory, Scho umption of Business Connection (BC	ool, Gov. office, Hospitaletc	nil. nil.	
05-26 Other technical specimen		ili3/day	1111.	
•				
06 Operation and Maintenace				
06-01 Organization's name 06-02 Type of organization	P	egional, Zone, Enterpriceetc	Water Committee	
06-03 Number of thechnical sta		egionai, zone, Emerpriceetc	2	
06-04 Principal works of techn			Pump operation	
06-05 Number of the financial			5	D.H.:
06-06 Principal works of finance of the order of the orde		Point, House Connectionetc	Water fee correction W. Point	n, Bill issueetc.
06-08 Water tariff rate	YY.	1 om, mouse connectionetc	, , , , 1 OIIIt	
Water point (Public fauc	et)	Birr/L, 20L	0.4 birr/20L	
House connection		Birr/m3	?? Birr/m3	
Business connection 06-09 Average monthly income	hv water tariff	Birr/m3 Birr/month	nil. 11,314 birr/month	
06-10 Procurement of spare par		n, Zonal Cap. Reg. Capetc.		sa
06-11 Principal spare parts	O	oil filter, Fuel filter, Pipesetc	Pipe, Fuacet, Filter	
06-12 Method in case of seriou		l office, Private companyetc		
06-13 Principal serious repair v 06-14 Fund for above 6-09, 6-1		ganization, Gov., Donorsetc.	Pump motor broker	n
		5amzanon, Gov., Donoisetc	DIMINI IX	
06-15 Other technical specimer	1			

S-14 Adilo

_			
	Problem of actual town water supply		
	07-01 Technical  Water source Ouantity, Oualityetc.	Water shorta	
	Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial		ortage of the Technical state
	Management	Shorgtage of	
		Fuel cost	Tepan toois
			y (not connected Ele. Line
		Power supply	y (not connected Ele. Line
	Shortage of budget to execute operation & maintenace		
	07-03 Other incidential, Special specimen	G : f	20 4 1 1 4
	Increase in population to consume water coming from other towns, villagesetc		n villages to demand water
	Change in industry Water office has and take advrease factory, Tradingetc		
	Human conflict Ethnic, Administrativeetc	nıl.	
	07-04 Other technical specimen		
8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)	
_	N. T. dada da G. Wa Maraka		
	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
	G .W. G		4.00
	Current Water Coverage (%) (by water consumption at faucets)	1.00/	16%
	(9.0m3*1PF+3.0m3*2HC+0m3*0BC)/20Lpcd.= 750persons 750persons/4,659 population =	16%	T 2221
	Current Water Coverage (%) (by data of water source product))	0001	??%
	((??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/4659population	=??%	
1	Water Potential (A / B / C / D / E)		В
_			1
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A/B
	A=Road Width > $6m /B = 326m / C = 123m / D = 128m$		
	Access roead is Asphalt road 49km fm Sodo. * Refer to Chapter 5 "Table 5-7: Categories of ac	ccessibility"	T
3	Manpower Capability of Water Supply Management by Water Office point)		14
.4	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
	Refer to Chapter 5 & 7		
15	Refer to Chapter 5 & 7  New Water Supply Plan		
15	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6		
15	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tech	hnology. The	e small town is on the
15	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tech generally flat terrains, construction work is not difficult.	hnology. The	e small town is on the
15	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's	hnology. The	e small town is on the
15	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tech generally flat terrains, construction work is not difficult.	hnology. The	e small town is on the
.5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced techniques that terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6		
15	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's	hnology. The Kembata, Ha	
.6	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group		
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions	Kembata, Ha	adiya
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Kembata, Ha	
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Kembata, Ha Health Cente	adiya er, Private clinic, Drug sto
.6	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia	adiya er, Private clinic, Drug sto 10,220
.6	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technique to the Chapter 6  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia Dysentery	adiya er, Private clinic, Drug sto 10,220 977
5 6	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced techniques the conditions of the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid	adiya er, Private clinic, Drug stor 10,220 977 357
5 6 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technology and the terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	adiya er, Private clinic, Drug stor 10,220 977 357 761
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technology and the terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	adiya er, Private clinic, Drug stor 10,220 977 357
.5 .6 .7 .8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	adiya er, Private clinic, Drug stor 10,220 977 357 761
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	adiya er, Private clinic, Drug stor 10,220 977 357 761
.5 .6 .7 .8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	adiya er, Private clinic, Drug stor 10,220 977 357 761
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technologies and the conditions of the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technologies and the conditions of the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technologies and the conditions of the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are Remarks:	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 7 8 9	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced technologies and the conditions of the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
15 16 17 18	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tech generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are learners:  It is a supplied to the chapter of the control	Kembata, Ha  Health Cente 17  Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
115 117 118 119 120	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: New project has been under application on 18May2009. (They have a proposal document) Water office has and take advantage the drawings of the existing water pipe line, and they are Remarks:  10 (Town sketchetc.): 04-02 Well spec.	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
115 117 118 119 120	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are proposal to the control of the cont	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
.6 .7 .8 .9 .21	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are Remarks:  10 (Town sketchetc.):  11 (Sec. (EstablisheNot. Working (Generator broken 04/Feb/2011)	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 7 8 9	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are proposal to the control of the cont	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 7 8 9	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are Remarks:  10 (Town sketchetc.):  11 (Sec. (EstablisheNot. Working (Generator broken 04/Feb/2011)	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
.6 .7 .8 .9 .21	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are Remarks:  10 (Town sketchetc.):  11 (Sec. (EstablisheNot. Working (Generator broken 04/Feb/2011)	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
5 7 8 0	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  New project has been under application on 18May2009. (They have a proposal document)  Water office has and take advantage the drawings of the existing water pipe line, and they are Remarks:  10 (Town sketchetc.):  11 (Sec. (EstablisheNot. Working (Generator broken 04/Feb/2011)	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new	adiya er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock

S-14 Adilo



S-15 Daniboya

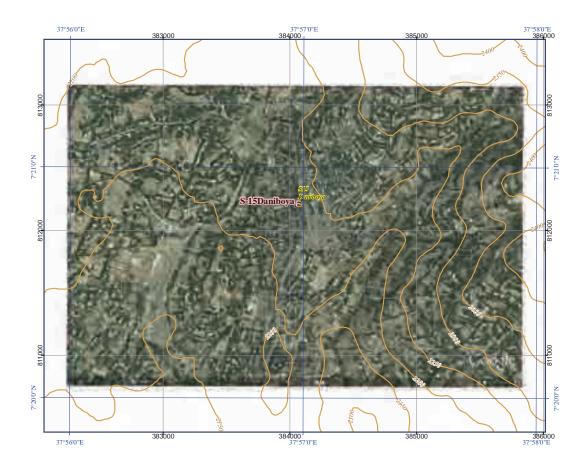
	SNNPR		11		12 / 5		
	Name of small town		Daniboya		S- 15		
	Name of Woreda		Daniboya		SW- 11		
	Name of Zone	:	Kembata Timb	aro	SZ- 03	3	
		Profile items		I	Profile		!
01	Population						
	Town	male / female / total	by SNNPR	4,228	3,883	8,111	
	Woreda percentage of Town in Wor	male / female / total	by Census 2007	41,119	40,652	81,771 9.9%	
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	383977	812084	2,165	_
	Town Status		5 5	Woreda Capital		Ĺ	
	Water Source						
+	04-01 Water source		Type, No.	Well*2nos. See belo memo			
	04-02 Well spec. 04-03 Methor of water draw		Denth., Casing Dia., S.W.L Pump, Gravity	Pump			
	04-04 Pump Spec.		Type, Yield	Motorized pump			
	04-05 Power source		Type, Kva	Commercial Elec	c., Standby G	enerator	
	04-06 Durartion of water draw		daily hours, time	06:30-11:30, 15:00	)-18:00 /day (	8hrs/day)	
	04-07 Water quality		Iron, Fluorideetc.	Good			
ŀ	04-08 Other technical specimen						
05	Existing Water Supply Facilities					+	
	05-01 Established year		(Gregorian calendar)	1996			
L.	05-02 Financial of implementation	n	Donor's name	SNNPR			
	05-03 Name of implementation			Daniboya water	project		
	05-04 Intake Type 05-05 Intake No.			Well			
	05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP, 3", 10m			
	05-07 Power to convey	ouree reservoir)	Pressure, Gravity	Pressure	***************************************	***************************************	
	05-08 Water treatment		Disinfection, Ironetc.	nil.			
	05-09 Water treatment capacity		m3/day	nil.			
- 1	05-10 Water reserver type		Туре	GR GR*3nos.			
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	75m3, 20m3, 8m	3 ea		
	05-13 Transmission Type (Booste	er pump Stn. ~ Reservoir)	Pipe material, length	nil.	o cu.		
5	05-14 Power to transmit		Pressure, Gravity	nil.			
,	05-15 Distribution Type		Pipe material, length	See below memo	)		
-	05-16 Power to distribute	(DILLE (DE)	Pressure, Gravity	Gravity			
	05-17 Structure Type of water poi 05-18 Number of water point (Pul		RC, Masonry, Pipeetc.	Mansonry 8			
	05-19 Number of faucet at a water		no.	6			
	05-20 Average of daily water con-		m3/day	5m3/day			
	05-21 Number of House Connecti		-	161			
L	05-22 Average of daily water consum	_	m3/day	0.166m3/day			
1	05-23 Number of Business Conec 05-24 Type of Business Connection		ol, Gov. office, Hospitaletc.	11	Inalth Contor*1	Chroh*2	
	05-25 Average of daily water consum		m3/day	0.2m3/day	icaitii Ceittei · i	, CIIICII · Z	
	05-26 Other technical specimen		ins/day	0.2110/ 445			
	Operation and Maintenace				1 60		
÷	06-01 Organization's name 06-02 Type of organization	D ₀	gional, Zone, Enterpriceetc.	Town water supp	ory office		
	06-03 Number of thechnical staff		gional, Zone, Emerpriceetc.	3			
	06-04 Principal works of technical	l staff		Pump operation,	Plumbins		
- F	06-05 Number of the financial sta			5			
	06-06 Principal works of financia			Water meter read	<del></del>		
	06-07 Categories of water tariff	W.P	Point, House Connectionetc.	Water point, Hou	ise conne		
ŀ	06-08 Water tariff rate Water point (Public faucet)		Birr/L, 20L	0.25 birr/20L			
ŀ	House connection		Birr/m3	see below memo			
ŀ	Business connection		Birr/m3	ditto			
	06-09 Average monthly income b	y water tariff	Birr/month	8,512birr/month			
ſ	06-10 Procurement of spare parts	at Town	·	Sheshemane, Aw			
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc	Water meter, Pip	e&fitting		
	06-12 Method in case of serious re	epair by Regional	office, Private companyetc				
		h 5-10 years		Zone Generator broker Town Adiministr		rinality	

## データ 7.3 南部諸民族州の小都市プロファイル

S-15 Daniboya

	Problem of actual town water supp	oly				
	07-01 Technical		Overtite O1:	Ding	dosion (I	
	Water source	D.	Quantity, Qualityetc. crepit, leakage, design failureetc		design (low pressure,	-
	Water supply facility 07-02 Finalcial	De	crepit, leakage, design failureetc	Reservoir cap	pacity)	_
	Management			Delay of tarif	ff correction	
	Rate of water tarrif collection	nn		Not grasp	ii correction	
	Personnel expenses	711		No answer		
	Shortage of budget to execu	te operation & maintena	ce		led manpowe	
	07-03 Other incidential, Special sp			Shortage skir	тей типроже	+
	Increase in population to co		ng from other towns, villagesetc	Increse town	population	+
	Change in industry		increase factory, Tradingetc	Not grasp	.t .t .	
	Human conflict		Ethnic, Administrativeetc			
	07-04 Other technical specimen					
8	Geographical condition	(Slope on mountaion, bo	ottom of valley, Top of ridgeetc.	)		
	Gentle slope on mountain					
	Necessary Institution (Facility, Ma	aterial)				
	Refer to Chapter 4 "Table 4.7"					
						_
-	G					+
U	Current Water Coverage (%) (by	water consumption at fau	icets)	11 1.1	42%	4
			3,446 persons 3,446persons / 8,1	11 population		_
	Current Water Coverage (%) (by			n=990/	??%	
1	((2.1L+??L)*3600sec.*??hrs)=??? Water Potential (A/B/C/D/E		ersos ????persons/8111populatio	11-11-11-11	В	+
1	water roteiniar (A/B/C/D/E	2			ь	_
2	Accessibility (A / R / C / D / F)	A=Asphalt/B=Base Course	/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	C/C	+
-			$B = 3 \sim 6 \text{m} / C = 1 \sim 3 \text{m} / D = <1 \text{m}$	rrened	5,0	┥-
	Access road is Asphalt and Sub gr		km from Hosaina * Refer to Chapte	er 5 "Table 5-7	7: Categories of accessil	oili
3	Manpower Capability of Water Su				13	
		11 7 3				
	Dgree of urgency (A / B / C / D /	E)				+
14	Dgree of urgency (A / B / C / D / Refer to Chapter 5 & 7	Е)				
4	Refer to Chapter 5 & 7  New Water Supply Plan	Е)				
4	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6	Ethiopian standard, whic	this not required more advanced tec	chnology. The	small town is on the	
.5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction	Ethiopian standard, whic	this not required more advanced tec	chnology. The	small town is on the	
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's	Ethiopian standard, whic	this not required more advanced tec		small town is on the	
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction	Ethiopian standard, whic	this not required more advanced tec	chnology. The	small town is on the	
.5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group	Ethiopian standard, whic	chis not required more advanced tec		small town is on the	
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions	Ethiopian standard, whic	this not required more advanced tec	Kembata		
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town	Ethiopian standard, which work is not difficult.		Kembata  Health Center	r, Private clinic, Drug si	
4 5 6	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from	Ethiopian standard, which work is not difficult.	km	Kembata  Health Center	r, Private clinic, Drug st	
4 5 6	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town	Ethiopian standard, which work is not difficult.		Kembata  Health Cente 12  Mararia	r, Private clinic, Drug st	
4 5 6	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from	Ethiopian standard, which work is not difficult.	km	Kembata  Health Cente 12  Mararia Typhoid	r, Private clinic, Drug st 1,000 200	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from	Ethiopian standard, which work is not difficult.	km	Kembata  Health Center 12  Mararia Typhoid Dysentery	r, Private clinic, Drug st 1,000 200 150	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born	Ethiopian standard, which work is not difficult.	km	Kembata  Health Cente 12  Mararia Typhoid	r, Private clinic, Drug st 1,000 200 150	
.5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments:	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass of	km	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Tra	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass of	km persons / year	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Tra	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is be	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass of	km persons / year	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Tra	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is be	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass of	km persons / year	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Tra	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is from the willing t	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass of	km persons / year	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Tra	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is h  Remarks:	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the disease of the	km persons / year  dry up to 275m total depth drilledd	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Traiting 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is hard the willing the will the willing the willing the willing the willing the willing the will the will	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the disease of the	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec.	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Tra	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is F  Remarks:  o (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1996 Well No.2; Estbsh on ??	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the disease of the	km persons / year  dry up to 275m total depth drilledd	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Traiting 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is hard the willing the will the willing the willing the willing the willing the willing the will the will	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the disease of the	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec.	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Traiting 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is become a companient of the compan	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the diseases  GL-??m / Casing dia.? GL-300m / Casing dia.	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec.	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Traiting 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is from the willing to pay of residents is from 100 (Town sketchetc.): 04-02 Well spec.  Well No.1; Estbsh on 1996 Well No.2; Estbsh on ??	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the disease of the	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec. 6" / SWL GL-228.4m / 2.1L/sec.	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Traiting 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is had been been been been been been been bee	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the diseases  GL-2?m / Casing dia.?  GL-300m / Casing dia.  ND-2*1/2"=1,000m ND-1"=500m	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec. 6" / SWL GL-228.4m / 2.1L/sec.	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Trais is 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
4 5 7 8 8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is had been supplied to the particular comments:  Ground water is deep, 200m drille The willing to pay of residents is had been supplied by the particular comments:  O (Town sketchetc.):  04-02 Well spec.  Well No.1; Estbsh on 1996 Well No.2; Estbsh on ??  05-15 Distribution Type GIP ND-3"=2,000m ND-1*1/2"=2,000m  06-08 Water tariff rate (House & Factor of the particular comments)	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the diseases  GL-??m / Casing dia.?  GL-300m / Casing dia.  ND-2*1/2"=1,000m  ND-1"=500m  Buisiness Connection)	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec. 6" / SWL GL-228.4m / 2.1L/sec.  ND-2"=3,000m	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Trais is 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de	
.5 .6 .7 .8	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an generally flat terrains, construction Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Ground water is deep, 200m drille The willing to pay of residents is had been been been been been been been bee	Ethiopian standard, which work is not difficult.  Town diseases  d is dry 2nd. Well wass on the diseases  GL-2?m / Casing dia.?  GL-300m / Casing dia.  ND-2*1/2"=1,000m ND-1"=500m	km persons / year  dry up to 275m total depth drilledd  ?" / SWL GL-??m / ??L/sec. 6" / SWL GL-228.4m / 2.1L/sec.  ND-2"=3,000m	Kembata  Health Center 12  Mararia Typhoid Dysentery Farming, Trais is 300m & Q=	r, Private clinic, Drug st 1,000 200 150 de -2.11/sec.	

S-15 Daniboya



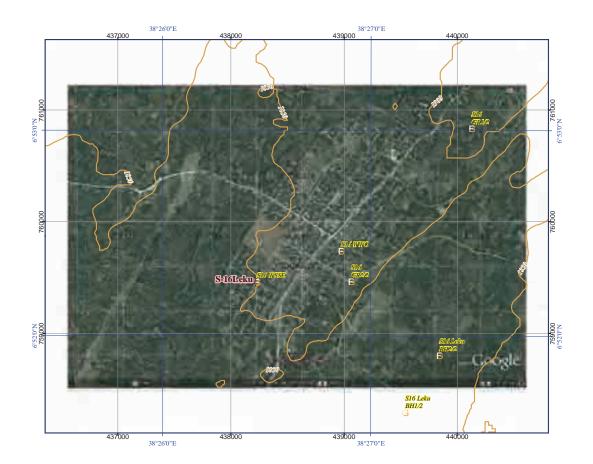
S-16 Leku

	SNNPR				13 /		
	Name of small town		Leku		S- 1		
	Name of Woreda	:	Shebedio		SW- 1	2	
	Name of Zone	:	Sidama		SZ- 0	4	
		Profile items			Profile		!
01	Population						
	Town	male / female / total	by SNNPR	6,290	5,520	11,810	
	Woreda	male / female / total	by Census 2007	95,888	93,947	189,835	
02	percentage of Town in Wor Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	438137	759326	6.2% 1,868	
	Town Status	O I W (Adilidali)	Easting / Northing / Art.	Municipality	139320	1,000	
	Water Source			wanterparity			
	04-01 Water source		Type, No.	Well*2nos.			
	04-02 Well spec.		Denth., Casing Dia., S.W.L	***************************************	0		
	04-03 Methor of water draw		Pump, Gravity	Pump			
	04-04 Pump Spec.		Type, Yield	Motorized pum	<u> </u>	II GE)	
	04-05 Power source 04-06 Durartion of water draw		Type, Kva daily hours, time	Commercial Elec. 06:00-09:00, 15			
	04-07 Water quality		Iron, Fluorideetc.	Good (No.2 we			
	04-07 Water quanty 04-08 Other technical specimen		non, Puorideetc.	nil.	ii iias turuoiu	ity)	
	04-06 Other teenmear speemen						
05	Existing Water Supply Facilities						
	05-01 Established year		(Gregorian calendar)	Aug. 2008			
	05-02 Financial of implementation	1	Donor's name	Plan Ethiopia			
	05-03 Name of implementation			Leku water pro	ject	*******	
	05-04 Intake Type			Well 2			
	05-05 Intake No. 05-06 Conveyance Type (Water so	ouroa Docarroir)	Pipe material, length	GIP / 4" / L=51	1m * 2 notry	nels.	
	05-07 Power to convey	ource ~ Reservoir)	Pressure, Gravity	Pressure	TIII * Z IIetwo	JIK	
	05-08 Water treatment		Disinfection, Ironetc.	nil.			
	05-09 Water treatment capacity		m3/day	nil.			
	05-10 Water reserver type		Туре	GR			
	05-11 Water reserver No.		no.	2 nos.			
	05-12 Water reserver Capacity		m3	100m3 * 2 nos.			
	05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	-			
	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	- GIP / 6", 2*1/2	"1*1/2" / I -	-11 000m	
	05-16 Power to distribute		Pressure, Gravity	Gravity	~1 1/2 / L-	-11,000111	
	05-17 Structure Type of water poi	nt (Public Faucet, PF)	RC, Masonry, Pipeetc.				
	05-18 Number of water point (Pub		no.	28			···
	05-19 Number of faucet at a water	point (Public Faucet, PF)	no.	4			
	05-20 Average of daily water con-	<del> </del>	F) m3/day	10m3/day			
	05-21 Number of House Connecti			400 / (500 bac	k order)		
	05-22 Average of daily water consum		C) m3/day	0.225m3/day			
	05-23 Number of Business Conec 05-24 Type of Business Connection		ool, Gov. office, Hospitaletc	same as house	connection		
	05-25 Average of daily water consumption			same as house	connection		
	05-26 Other technical specimen	otton of Business Connection (B	c) maracy	nil.	Connection		
_			_				
06	Operation and Maintenace						
	06-01 Organization's name			Leku town water	er supply ente	erprice	
	06-02 Type of organization	I	Regional, Zone, Enterpriceetc	Enterprise			
	06-03 Number of thechnical staff	Latoff		Dume	Mo-1 '		
	06-04 Principal works of technica 06-05 Number of the financial sta			Pump operation	i, iviecnani		
	06-06 Principal works of financial			Water meter read.	Bill. Procurem	nentetc.	
	06-07 Categories of water tariff		7.Point, House Connectionetc.	W. Point / House			
	06-08 Water tariff rate						
	Water point (Public faucet)		Birr/L, 20L	0.15birr/20L (co	ontract price 6	.0birr/m3)	!
	House connection		Birr/m3	5.0birr/0~10m3	3 / 5.5birr/>10	)m3	
	Business connection		Birr/m3	ditto			
	06-09 Average monthly income by		Birr/month	17,000birr/mon	th		
	06-10 Procurement of spare parts		wn, Zonal Cap. Reg. Capetc.	Awasa Watan matan m	no fittin	lton -f OD	
	06-11 Principal spare parts 06-12 Method in case of serious re		Oil filter, Fuel filter, Pipesetc al office, Private companyetc			mer of GE	
	06-12 Method in case of serious re 06-13 Principal serious repair with		ai office, Firvate companyetc	Well pump bro			
	06-14 Fund for above 6-09, 6-10	hv O	rganization, Gov., Donorsetc.				
	06-15 Other technical specimen		,,,	nil.			
	A						

S-16 Leku

07	Problem of actual town water supply				l
07	07-01 Technical				<b></b>
	Water source	Quantity, Qualityetc.	No response		ļ
	Water supply facility	Decrepit, leakage, design failureetc	Lack of design	gn in distribution network	ļ
	07-02 Finalcial				
	Management		No response		
	Rate of water tarrif collection		No response		
	Personnel expenses		Skill of techr		ļ
	Shortage of budget to execute operation &	maintenace	No response		ļ
	07-03 Other incidential, Special specimen				
	Increase in population to consume water	coming from other towns, villagesetc		es	ļ
	Change in industry	increase factory, Tradingetc			ļ
	Human conflict	Ethnic, Administrativeetc			ļ
	07-04 Other technical specimen		nil.		
NΘ	Geographical condition (Slope on mou	ntaion, bottom of valley, Top of ridgeetc.)	<u> </u>		-
00	Town: Flat area	intaion, bottom of vancy, 10p of ridgeetc.,	<u>'</u>		ł
	10wii . I lat alca				-
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				·
_					L
10	Current Water Coverage (%) (by water consump			157%	!
	(10m3*28PF+0.225m3*400HC)=370m3/day 37		ons / 11,810 p	r	
	Current Water Coverage (%) (by data of water so			332%	ļ
	((16.9L+10.33L)*3600sec.*8hrs)=784224L/day	784224/20Lcd=39211persos 39211perso	ons/11810pop	ulation=332%	ـــــــــــــــــــــــــــــــــــــــ
11	Water Potential (A / B / C / D / E)			A	ļ
1.0	4 77 77 77 77 77 77 77 77 77 77 77 77 77	0.010.75.27			<u> </u>
12		ase Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A/A	ļ
		$\frac{\text{th} > 6\text{m}}{\text{B}} = 3\text{-}6\text{m}/\text{C} = 1\text{-}3\text{m}/\text{D} = <1\text{m}}{\text{C}}$	.1 .1 "		
1.2	Access road is Asphalt road 22km from Awasa*	· · · · · · · · · · · · · · · · · · ·	accessibility		-
13	Manpower Capability of Water Supply Managem			19	
	Head, chief of administration are grasp facility, d	ata and has document and records except dra	wings.		.ļ
1.4	D		1		-
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
	Refer to Chapter 3 & 7				
15	New Water Supply Plan				
15	Refer to the Chapter 6				
	The facility can be designed in an Ethiopian stand	lard, whichis not required more advanced tec	hnology. The	small town is on the	
	generally flat terrains, construction work is not di				
16	Other Donors, NGO's				
	Plan Ethiopia				
17	Main Ethnic Group		Sidama, Gura	age	
					_
18	Health conditions				<u> </u>
	-1 Medical facilities in Town			er, Private clinic, Drug stor	e
	-2 Nearest other facilities from Town	km	27		ļ
	-3 Main patients of water born diseases	persons / year	Mararia	240	ļ
			Typhoid	208	
			Dysentery	136	ļ
			Cholera	101 89	
10	Main economic activities		Diarrhea Trade Farmi		$\vdash$
19	iviani econonne activities		Trade, Farmi	ing	┼
20	Particular comments :				t
	The existing water supply facility was constructed	d by NGOon 2008.			
	5.77				1
					L
21	Remarks:				
					匚
					<u> </u>
	,				Ļ
Лeп	o (Town sketchetc.):	-			
					<b>,</b>
	04-02 Well spec.		- OT /		ļ
		146m / Casing dia. 8" / SWL GL-33.07m / 1			)
	Well No.2; Establish on 2008 / Depth GL-	162m / Casing dia. 8" / SWL GL-33.10m / 1	0.33L/sec. W	ater has turbidity	

S-16 Leku



S-17 Kebado

	SNNPR			14 / 52	
	Name of small town :		Kebado	S- 17	
	Name of Woreda :		Dara	SW- 13	1
	Name of Zone :		Sidama	SZ- 04	
	Pr	ofile items		Profile	!
01	Population				·
	_	e / female / total	by SNNPR	4,239 4,126 8,365	
		e / female / total	by Census 2007	77,811 80,055 157,866	
02	percentage of Town in Woreda Town Coordination UTM	A (A dindon)	Easting / Nouthin / Alt	5.3% 427292 715624 1,804	
_	Town Status	M (Adindan)	Easting / Northig / Alt.	Woreda Capital 1,804	
_	Water Source			Worden Capital	
	04-01 Water source		Type, No.	Well * 2nos.	
	04-02 Well spec.	Dep	th., Casing Dia., S.W.L, Yield		
	04-03 Methor of water draw 04-04 Pump Spec.		Pump, Gravity Type, Yield	Pump Motorized pump	
	04-04 Pullip Spec. 04-05 Power source		Type, Kva	Commercial Elec.	
	04-06 Durartion of water draw		daily hours, time	10:00-13:00, 20:00-23:00 6hrs./day	
	04-07 Water quality		Iron, Fluorideetc.	Good	
	04-08 Other technical specimen				
05	Existing Water Supply Facilities				
05	05-01 Established year		(Gregorian calendar)	1980	
	05-01 Established year 05-02 Financial of implementation		Donor's name	SNNPR	
	05-03 Name of implementation			Kabado water supply project	
	05-04 Intake Type			Well	
	05-05 Intake No.			2 nos.	
	05-06 Conveyance Type (Water source	~ Reservoir)	Pipe material, length	GIP, 2*1/2" 472m, 3" 1,453m (total 1,925m)  Pressure	
	05-07 Power to convey 05-08 Water treatment		Pressure, Gravity Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Type	GR	
	05-11 Water reserver No.		no.	GR*1no.	
	05-12 Water reserver Capacity		m3	75m3	
	05-13 Transmission Type (Booster pum	p Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	GIP 3/4"~2*1/2" (total 1,896m)	
	05-16 Power to distribute		Pressure, Gravity	Gravity (total 1,890iii)	
	05-17 Structure Type of water point (Pu	blic Faucet, PF)	RC, Masonry, Pipeetc.		
	05-18 Number of water point (Public Fa		no.	9	
	05-19 Number of faucet at a water point		no.	6	
	05-20 Average of daily water consumpti 05-21 Number of House Connection (HO		m3/day	2.04m3/day 224	
	05-22 Average of daily water consumption		m3/day	0.04m3/day	
	05-23 Number of Business Conection (E		iii 3, day	13	
	05-24 Type of Business Connection (BC		ol, Gov. office, Hospitaletc.	Gov., School, Clinic	
	05-25 Average of daily water consumption of	Business Connection (BC)	m3/day	0.46m3/day	
	05-26 Other technical specimen				
06	Operation and Maintenace				
00	06-01 Organization's name			Town water supply service	
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc.	****	
	06-03 Number of thechnical staff			2	
	06-04 Principal works of technical staff			Pump operation, Plumbing	
	06-05 Number of the financial staff			5 W	
	06-06 Principal works of financial staff 06-07 Categories of water tariff	WF	Point, House Connectionetc.	Water meter reading, Bill Water point, House Connection	
	06-07 Categories of water tariff 06-08 Water tariff rate	vv.r	om, mouse connectionetc.	mater point, House Conficction	ļ
	Water point (Public faucet)		Birr/L, 20L	0.2birr/20L	
	House connection		Birr/m3	3.25birr/0~5m3, 2.75birr/5m3~	
	Business connection	100	Birr/m3	ditto	
	06-09 Average monthly income by wate		Birr/month	2,650	ļ
	06-10 Procurement of spare parts	at Town	, Zonal Cap. Reg. Capetc. l filter, Fuel filter, Pipesetc	Water meter Pine & Fitting	ļ
	06-11 Principal spare parts 06-12 Method in case of serious repair		office, Private companyetc		ļ
	06-13 Principal serious repair with 5-10		onice, invace companyetc	Well rehabilitation (cleani	ļ
	06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.		İ
	06-15 Other technical specimen				
					I

S-17 Kebado

	アプルの円間的の次列の行門リント		
	Problem of actual town water supply		
	07-01 Technical  Water source Ouantity, Oualityetc.	Not grasp	
ŀ			ton maint. Dina naturals
-	Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial	Shortage war	ter point, ripe network
1	Management	Massura of t	ransportaion
ŀ	Rate of water tarrif collection	ivicasure or t	ransportaton
ŀ		Shortage	
-	Personnel expenses		L
ŀ	Shortage of budget to execute operation & maintenace	Snortage of t	budget for maintainance
1	07-03 Other incidential, Special specimen	T T	1.4
ŀ	Increase in population to consume water coming from other towns, villagesetc	Increace Tov	wn population
-	Change in industry increase factory, Tradingetc.	Increace Ira	ding buisiness
-	Human conflict Ethnic, Administrativeetc	n11.	
	07-04 Other technical specimen		
	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
0	Geographical condition (Stope on mountaion, bottom of valley, Top of ridgeetc.)	)	
-			
-			
0	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
ļ.	Refer to Chapter 4 Table 4.7		
ŀ			
0	Current Water Coverage (%) (by water consumption at faucets)		20%
	(2.04m3*9PF+0.04m3*224HC+0.46*13BC)=33.3m3/day 33.3m3/20Lpcd.= 1,665 persons	1 665	
	(2.04m3*9PF+0.04m3*224HC+0.46*13BC)=33.3m3/day 33.3m3/20Lpcd.= 1,665 persons  Current Water Coverage (%) (by data of water source product))	1,000persons	
			%
$\overline{}$	((8.0L+??L)*3600sec.*8hrs)=??day ??/20Lcd=??persos ??persons/8365population=??%		Α.
1	Water Potential (A / B / C / D / E)		A
1	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Ammuooohod	B/A
2	Accessibility $(A/B/C/D/E)$ A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	Approactied	D / A
-	A_Road width > oin /B_ > > oin / C_ 1 ~ oin / B_ < Till Access road is Asphalt road and Sub grade (only dry season) 12km from Dilla.* Refer to Chap	ton 5 "Toble 5	7. Catagorias of accessi
	Manpower Capability of Water Supply Management by Water Office (point)	ter 5 Table 5	13
3	Manpower Capability of water Supply Management by water Office point)		15
_	Dgree of urgency (A / B / C / D / E)		
	Doree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
	Refer to Chapter 5 & 7		
5	Refer to Chapter 5 & 7  New Water Supply Plan		
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6		
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tec	chnology. The	e small town is on the ger
5 [	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearinge, however, construction work is not difficult.	chnology. The	e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's	chnology. The	e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearinge, however, construction work is not difficult.	chnology. The	e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6		e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's	chnology. The	e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tecridge, however, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group		e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions	Sidama	
5	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Sidama	e small town is on the ger
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions	Sidama	er, Private clinic, Drug sto
5 <u> </u>	Refer to Chapter 5 & 7  New Water Supply Plan  Refer to the Chapter 6  The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Sidama  Health Cente 8  Dysentery	er, Private clinic, Drug sto
5 ]	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced to ridge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama  Health Cente 8  Dysentery Malaria	er, Private clinic, Drug sto 350 210
5 <u> </u>	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced to ridge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama  Health Cente 8  Dysentery	er, Private clinic, Drug sto 350 210 205
5 ]	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced to ridge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama  Health Cente 8  Dysentery Malaria	er, Private clinic, Drug sto 350 210
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced to ridge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 6 7 8 9	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 <u>1</u> 6 <u>9</u> 1	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 <u>1</u> 6 <u>9</u> 1	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 6 7 8 9 9	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 6 7 8 9 9	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 6 7 8 9 9	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 2 7 8 8 9 0 1 1	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 2 7 8 8 9 0 1 1	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 6 7 8 9 1 em	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 8  Dysentery Malaria Typhoid others	er, Private clinic, Drug sto 350 210 205 180
5 6 7 8 9 1 em	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:	Sidama  Health Cente 8 Dysentery Malaria Typhoid others Trade, Lives	210 205 180 tock, Waving
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearinge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  o (Town sketchetc.):  04-02 Well spec. Well No.1; Establish on 1980 / Depth GL-72m / Casing dia. 6*5/8" / SWL GL-54m / 8	Sidama  Health Cente 8 Dysentery Malaria Typhoid others Trade, Lives	er, Private clinic, Drug sto 350 210 205 180 tock, Waving
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearidge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:	Sidama  Health Cente 8 Dysentery Malaria Typhoid others Trade, Lives	er, Private clinic, Drug sto 350 210 205 180 tock, Waving
5	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearinge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  o (Town sketchetc.):  04-02 Well spec. Well No.1; Establish on 1980 / Depth GL-72m / Casing dia. 6*5/8" / SWL GL-54m / 8	Sidama  Health Cente 8 Dysentery Malaria Typhoid others Trade, Lives	er, Private clinic, Drug sto 350 210 205 180 tock, Waving
7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearinge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  o (Town sketchetc.):  04-02 Well spec. Well No.1; Establish on 1980 / Depth GL-72m / Casing dia. 6*5/8" / SWL GL-54m / 8	Sidama  Health Cente 8 Dysentery Malaria Typhoid others Trade, Lives	er, Private clinic, Drug sto 350 210 205 180 tock, Waving
7 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Refer to Chapter 5 & 7  New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, which is not required more advanced tearinge, however, construction work is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  o (Town sketchetc.):  04-02 Well spec. Well No.1; Establish on 1980 / Depth GL-72m / Casing dia. 6*5/8" / SWL GL-54m / 8	Sidama  Health Cente 8 Dysentery Malaria Typhoid others Trade, Lives	er, Private clinic, Drug sto 350 210 205 180 tock, Waving

S-17 Kebado



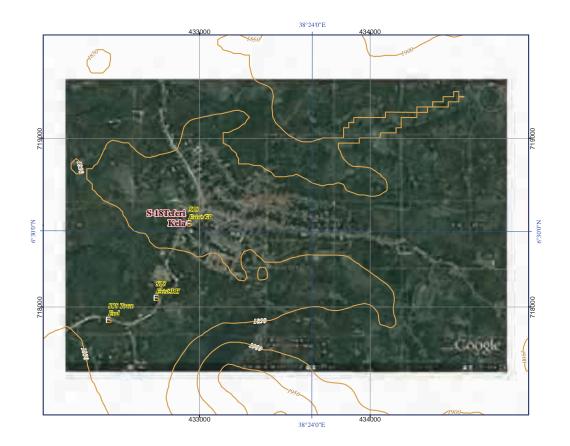
S-18 Teferi Kela

	SNNPR		15 / 52	
	Town Name & ID No. :	Teferi Kela		
	Woreda Name & ID No. :	Dara	SW- 13	
	Zone Name & ID No. :	Sidama	SZ- 04	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	2,153 2,025 4,178	
	Woreda male / female / total	by Census 2007	77,811 80,055 157,866	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	2.6% 432846 718356 1,874	
	Town Status	Easting / Norting / Ait.	432840 /18330 1,874 Municipality	
	Water Source		- Tumo puncy	
	04-01 Water source	Type, No.	Well*1no.	
		pth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity		
	04-04 Pump Spec.	Type, Yield		
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours)	Type, Kva	06:00 12:00 (6 /4)	
	04-07 Water quality	daily hours, time Iron, Fluorideetc.	06:00-12:00 (6hrs./day) Good	
	04-08 Other technical specimen	non, ruonaeetc.	3000	
	3 3 3 3 3 4 Common Specimen			
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1967	
	05-02 Financial of implementation	Donor's name	China	
	05-03 Name of implementation (Project name)		Teferi Kella town water supply project	
	05-04 Intake Type		Well	
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	Ino. GIP, 2", 1,000m	
	05-06 Conveyance Type (water source ~ Reservoir) 05-07 Power to convey	Pressure, Gravity	Pressure	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Type	GR	
	05-11 Water reserver No.	no.	1no.	
	05-12 Water reserver Capacity	m3	50m3	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit 05-15 Distribution Type	Pressure, Gravity Pipe material, length	nil. 2*1/2" 1,350m, 1*1/2" 2,050m (Total 3,400m)	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.		
	05-18 Number of water point (Public Faucet, PF)	no.	9 (8 function)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	2FC*1PF, 6FC*8PF	
	05-20 Average of daily water consumption at a water point (PF	) m3/day	1.4m3/day	
	05-21 Number of House Connection (HC)		90	
	05-22 Average of daily water consumption of House Connection(HC	) m3/day	0.17m3/day	
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, Scho	ool, Gov. office, Hospitaletc.	Gov., Chrch Health center, Mosque	
	05-25 Average of daily water consumption of Business Connection (BC)		0.233m3/day	
	05-26 Other technical specimen	, ms/day	0.233113/443	
	oo 20 Odder teelimear specimen			
06	Operation and Maintenace			
	06-01 Organization's name		Teferi Kella water supply system	
		egional, Zone, Enterpriceetc	Woreda water office	
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff 06-05 Number of the financial staff		Pump operation nil.	!
	06-06 Principal works of financial staff		nii.	:
		Point, House Connectionetc.		•
	06-08 Water tariff rate	, 110400 Connectionetc.		
	Water point (Public faucet)	Birr/L, 20L	0.2birr/20L	
	House connection	Birr/m3	See below memo	
	Business connection	Birr/m3	ditto	ļ
	06-09 Average monthly income by water tariff	Birr/month	6,000birr/month	
		n, Zonal Cap. Reg. Capetc.		
		bil filter, Fuel filter, Pipesetc I office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	i office, ritvate companyetc	Not grasped	
		ganization, Gov., Donorsetc.		
	06-15 Other technical specimen			

S-18 Teferi Kela

	Problem of actual town water supply			
	07-01 Technical	1	C1 4	
	Water source Quantity, Qual		Shortage water	er
	Water supply facility Decrepit, leakage, design 07-02 Finalcial	n ranureetc.	Deterioration	
	Management		nil.	
	Rate of water tarrif collection		nil.	
	Personnel expenses		low	
	Shortage of budget to execute operation & maintenace		Shortage bud	get for O&M
	07-03 Other incidential, Special specimen		Shortage bud	get for Octivi
	Increase in population to consume water coming from other towns,	villages etc	nil	
	Change in industry increase factory,			
	Human conflict Ethnic, Admin			
	07-04 Other specimen	and the same of		
)8	Geographical condition (Slope on mountaion, bottom of valley, Top of	of ridgeetc.)		
	Town is on flat area			
20	N. I. C. C. C. W. C. D.			
)9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		1	40%
	(1.4m3*8PF+0.17m3*90HC+0.233m3*30BC)=33.5m3/day 33.5m3/20Lpcd.=	1 675persons	1.675nerson	
	Current Water Coverage (%) (by data of water source product))	1,07000130113	1,075pc180ll	?? %
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/4178populatio	on=??%		/0
[1	Water Potential $(A/B/C/D/E)$	J/U		
	Trace Potential (PP B + B + B)		L	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Di	ry Season/E=Not	Approached	A/A
	A=Road Width > 6m /B= >3~6m / C= 1~3m	n / D= <1m		
	Access is Base course road 7km approx. from Asphalt road at Kebado (15km fro	om Dila) * Refe	er to Chapter	5 "Table 5-7: Categories
13	Manpower Capability of Water Supply Management by Water Office point)			12
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more	e advanced tech	nnology. The	small town is on the
			23	
	generally flat terrains, construction work is not difficult.			
16				
16	generally flat terrains, construction work is not difficult.  Other Donors, NGO's			
16				
	Other Donors, NGO's		Sidama Silte	
			Sidama, Silte	
17	Other Donors, NGO's  Main Ethnic Group	,	Sidama, Silte	
17	Other Donors, NGO's			:, Private clinic, Drug sto
17	Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town		Health Center	·, Private clinic, Drug sto
17	Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town			r, Private clinic, Drug sto
17	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km		Health Center	
17	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km		Health Center 17 Dysentery	400
17	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km		Health Center 17 Dysentery Typhoid	400 309
.7	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km		Health Center 17 Dysentery Typhoid Mararia	400 309 150 200
17	Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year		Health Center 17 Dysentery Typhoid Mararia others	400 309 150 200
17	Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year		Health Center 17 Dysentery Typhoid Mararia others	400 309 150 200
17	Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:		Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste	400 309 150 200 ock, Waving
18	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities		Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste	400 309 150 200 ock, Waving
17	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town km  -3 Main patients of water born diseases persons / year		Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste	400 309 150 200 ock, Waving
17	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:	this well is not	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste	400 309 150 200 ock, Waving
17 18	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh 1	this well is not	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving
.7 .8	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh I	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
9 20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh I Mr. Dangiso D Mr. Gizaw Bal	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving
17 18 19 20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh I	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
17 18 19 20	Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh I Mr. Dangiso D Mr. Gizaw Bal	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
17 18 19 20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh Mr. Dangiso D Mr. Gizaw Bal no (Town sketchetc.):	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
17 18 19 20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh 1  Mr. Dangiso D  Mr. Gizaw Bal  mo (Town sketchetc.):    06-08 Water Tariff (House and Business Connection)   0 ~ 5 m3 = 3.25birr/m3 11 ~ 30 m3 = 4.00birr/m3	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
.9.20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh Mr. Dangiso D Mr. Gizaw Bal no (Town sketchetc.):	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
9 20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh 1  Mr. Dangiso D  Mr. Gizaw Bal  mo (Town sketchetc.):    06-08 Water Tariff (House and Business Connection)   0 ~ 5 m3 = 3.25birr/m3 11 ~ 30 m3 = 4.00birr/m3	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
.9.20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh 1  Mr. Dangiso D  Mr. Gizaw Bal  no (Town sketchetc.):    06-08 Water Tariff (House and Business Connection)   0 ~ 5 m3 = 3.25birr/m3 11 ~ 30 m3 = 4.00birr/m3	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
.9.20	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh 1  Mr. Dangiso D  Mr. Gizaw Bal  no (Town sketchetc.):    06-08 Water Tariff (House and Business Connection)   0 ~ 5 m3 = 3.25birr/m3 11 ~ 30 m3 = 4.00birr/m3	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl
7 8 9 0 0	Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, of other water supply facility.  Remarks:  Mr. Belayneh 1  Mr. Dangiso D  Mr. Gizaw Bal  no (Town sketchetc.):    06-08 Water Tariff (House and Business Connection)   0 ~ 5 m3 = 3.25birr/m3 11 ~ 30 m3 = 4.00birr/m3	this well is not Biftu Kebado T Daniso Water sa	Health Center 17 Dysentery Typhoid Mararia others Trade, Liveste under operati	400 309 150 200 ock, Waving ong due to there is no pl

S-18 Teferi Kela



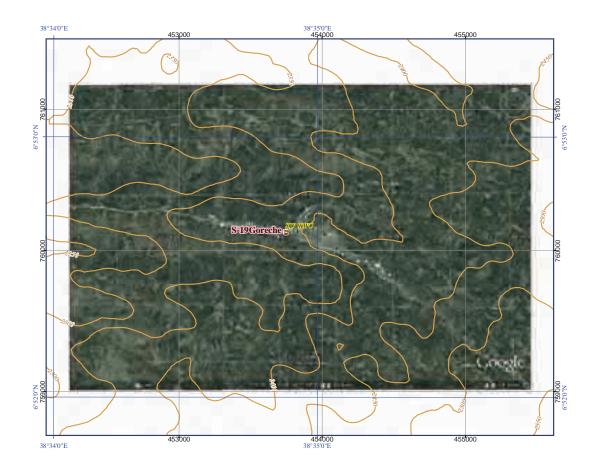
S-19 Goreche

	SNNPR		16 / 52	
	Name of small town : Gor	eche	S- 19	
	Name of Woreda : Gor	eche	SW- 14	
	Name of Zone : Sid	lama	SZ- 04	
	Profile items		Profile	!
01	Population Town male / female / total by SNNPR		1,614 1,372 2,98	36
	Woreda male / female / total by Census 2007 percentage of Town in Woreda		70,816 68,964 139,78 2.1	30
_	Town Coordination UTM (Adindan) Easting / Northig / A	Alt.	453653 759991 2,38	
-	Town Status Water Source		Woreda Capital	
04	04-01 Water source Type, No.		Spring (On-spot)	
	04-02 Well spec. Depth., Casing Dia., S.W.	L, Yield		
	04-03 Method of water draw Pump, Gravity		nil.	
	04-04 Pump Spec. Type, Yield		nil.	
	04-05 Power source for motorized pump Type, Kva		nil.	
	04-06 Durartion of water draw (Operation hours) daily hours, time		24hrs. (Actual 10hrs./day)	
	04-07 Water quality Iron, Fluorideetc.		Good	
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			
	05-01 Established year (Gregorian calendar)	.)	2005	
	05-02 Financial of implementation Donor's name		SNNPR	
	05-03 Name of implementation (Project name)		Gorche spring developemnt project	
	05-04 Intake Type 05-05 Intake No.		Spring (On-spot) 1no.	
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe material, length	h	nil.	
	05-07 Power to convey  Pressure, Gravity	11	nil.	
	05-08 Water treatment Disinfection, Iron	etc	nil.	
	05-09 Water treatment capacity m3/day	.ctc.	nil.	
	05-10 Water reserver type Type		nil.	
	05-11 Water reserver No. no.		nil.	
	05-12 Water reserver Capacity m3		nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length	h	nil.	
	05-14 Power to transmit Pressure, Gravity		nil.	
	05-15 Distribution Type Pipe material, length	h	nil.	
	05-16 Power to distribute Pressure, Gravity		nil.	
	05-17 Structure Type of water point (Public Faucet, PF) RC, Masonry, Pip	peetc.	Mansonry	
	05-18 Number of water point (Public Faucet, PF) no.		1 (On-spot)	
	05-19 Number of faucet at a water point (Public Faucet, PF) no.		2	
	05-20 Average of daily water consumption at a water point (PF) m3/day 05-21 Number of House Connection (HC)		18m3/day or less (Approx.) nil.	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) m3/day		nii.	
	05-23 Number of Business Conection (BC)		nil.	
	05-24 Type of Business Connection (BC)  Factory, School, Gov. office, Hospit			
	05-25 Average of daily water consumption of Business Connection (BC)  m3/day		nil.	
	05-26 Other technical specimen			
06	Operation and Maintenace			+
	06-01 Organization's name		nil.	
	06-02 Type of organization Regional, Zone, Enterpr	riceetc.		
	06-03 Number of thechnical staff		nil.	
	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		nil.	
	06-06 Principal works of financial staff		nil.	
	06-07 Categories of water tariff W.Point, House Connecti	ionetc.		
	06-08 Water tariff rate Water point (Public forest) Ping(L 20)		nil.	
	Water point (Public faucet) Birr/L, 20L House connection Birr/m3		nil.	
	House connection Birr/m3 Business connection Birr/m3		nil.	
	06-09 Average monthly income by water tariff Birr/month		nil.	
	06-10 Procurement of spare parts at Town, Zonal Cap. Reg. Ca	n etc		
	06-11 Principal spare parts  Oil filter, Fuel filter, Pip			
	06-12 Method in case of serious repair by Regional office, Private compa			
	06-13 Principal serious repair with 5-10 years	,	nil.	
	06-14 Fund for above 6-09, 6-10 by Organization, Gov., Dono	orsetc		
	06-15 Other technical specimen			
l	A			

S-19 Goreche

0.5				
07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Water Shorta	ige	
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		
	07-02 Finalcial			
	Management	Not grasped		1
		nil.		-
		nil.		
	Personnel expenses			
	Shortage of budget to execute operation & maintenace	nil.		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc	.coming from	other villages to spring	
	Change in industry increase factory, Tradingetc.	nil.		
	Human conflict Ethnic, Administrativeetc	nil.		1
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			+
00	Geographical condition (Stope on mountaion, bottom of variety, 10b of ridgeetc.)			
	Town is on the top of ridge.			_
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (0/) (by water consumation of formation	1	200/	+
10	Current Water Coverage (%) (by water consumption at faucets)	0	30%	
l	(18m3*1PF+0m3*0HC+0m3*0BC)=18m3/day 18m3/20Lpcd.=900persons 900persons/2,9	86population		
	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*24hrs)=??L/day ??/20Lcd=??persos ??persons/2986population=??%			
11	Water Potential (A/B/C/D/E)		С	1
	(11/2/C/2/2)		-	+
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Annroachad	B/B	+
12		Approacticu	D / D	<del></del>
	A=Road Width > $6m /B = 3-6m / C = 1-3m / D = <1m$			
	Access is Base course road 16km approx. from Asphalt road at Leku. (23km from Awasa)			
13	Manpower Capability of Water Supply Management by Water Office point)		3	
1.4	Dgree of urgency (A / B / C / D / E)			+
14				+
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	Refer to the Chapter 6			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech	hnology. The	small town is on the gen	tle
	slope, however, construction work is not difficult.			
16	Other Donors, NGO's			
10	nil.			
	1111.			
		a		+
17	Main Ethnic Group	Sidama		
18	Health conditions			
	-1 Medical facilities in Town Health Cente	r, Private clir	nic, Drug store, Health po	st
	-2 Nearest other facilities from Town km	45		
	<u></u>	Dysentery	150	
	<u> </u>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		Diarrhea	120	
		Typhoid	60	
		others	200	
19	Main economic activities	Trade, Farmi	ng, Livestock	
20	Particular comments :			
	The distance to the water source, womens and children has become a burden to caeey water.	***************************************		
l	, , , , , , , , , , , , , , , , , , , ,			1
21	D 1			+
21	Remarks:			_
l				
1				
l	Ato Philipos Nahome Woreda water supply & sanitation p	rocess owner	Mob. 0916027247	
Men	no (Town sketchetc.):			
	(			l
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S-19 Goreche



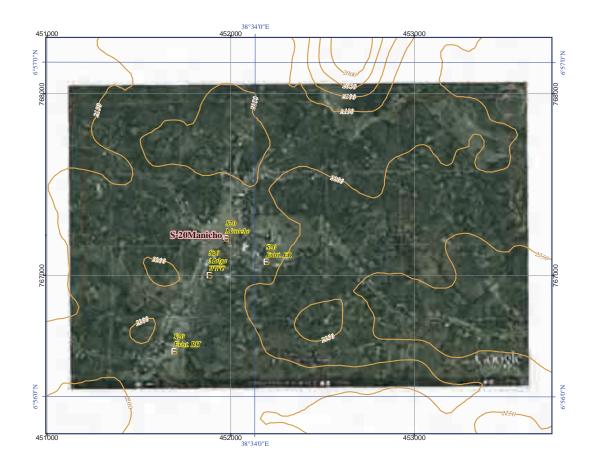
S-20 Manicho

	SNNPR			17 / 52	
	Name of small town	:	Manicho	S- 20	
	Name of Woreda		Malga	SW- 15	
	Name of Zone	•	Sidama	SZ- 04	
		Profile items		Profile	!
01 I	Population				
		male / female / total	by SNNPR	2,115 1,902 4,01	
		male / female / total	by Census 2007	57,757 56,273 114,030	
02 7	percentage of Town in Wored Town Coordination	uTM (Adindan)	Easting / Northig / Alt.	3.5% 451882 767071 2,16	_
-	Fown Status	C 1111 (1 tanidan)	Easting / Horting / Tit.	Town Administration	1
	Water Source				
ļ	04-01 Water source		Type, No.	Well*1no.	-
	04-02 Well spec. 04-03 Method of water draw	Dej	oth., Casing Dia., S.W.L, Yield Pump, Gravity	GL-110m, 6*5/8", GL-41m, 5.0L/sec.	
	04-04 Pump Spec.		Type, Yield	Motorized pump	
5	04-05 Power source for motorized p	ump	Type, Kva	Commercial Elec.	
jene jene	04-06 Durartion of water draw (Ope	ration hours)	daily hours, time	No operation due to water quality (Iron	
	04-07 Water quality		Iron, Fluorideetc.	Iron	!
-	04-08 Other technical specimen				
05 I	Existing Water Supply Facilities				+
(	05-01 Established year		(Gregorian calendar)	2004	
	05-02 Financial of implementation		Donor's name	SNNPR	
	05-03 Name of implementation (Pro 05-04 Intake Type	oject name)		Wujigra town water supply project Well	_
	05-05 Intake No.			lno.	
	05-06 Conveyance Type (Water sou	rce ~ Reservoir)	Pipe material, length	GIP, 2*1/2", 400m	
	05-07 Power to convey		Pressure, Gravity	Pressure	
ļ	05-08 Water treatment		Disinfection, Ironetc.	nil.	
je.,	05-09 Water treatment capacity 05-10 Water reserver type		m3/day Type	nil. ER	
	05-10 Water reserver No.		no.	lno.	
j	05-12 Water reserver Capacity		m3	2m3	
j	05-13 Transmission Type (Booster	oump Stn. ~ Reservoir)	Pipe material, length	nil.	
j	05-14 Power to transmit		Pressure, Gravity	nil.	
j	05-15 Distribution Type 05-16 Power to distribute		Pipe material, length Pressure, Gravity	1*1/2" 200m, 1" 56m (Total 256m) Gravity	
-	05-17 Structure Type of water point	(Public Faucet, PF)	RC, Masonry, Pipeetc.		
	05-18 Number of water point (Publi		no.	2	
	)5-19 Number of faucet at a water p		no.	6	
	05-20 Average of daily water consu		) m3/day	1.0m3/day	_
	05-21 Number of House Connection 05-22 Average of daily water consump		m3/day	nil.	
· ·	05-23 Number of Business Conection		ine/day	nil.	
	05-24 Type of Business Connection		ol, Gov. office, Hospitaletc	nil.	
	05-25 Average of daily water consumpti	on of Business Connection (BC	) m3/day	nil.	ļ
(	05-26 Other technical specimen				-
06 (	Operation and Maintenace				+
	06-01 Organization's name			Wujiga town water supply system	
	06-02 Type of organization	R	egional, Zone, Enterpriceetc	Community based organization	
ļ.,	06-03 Number of thechnical staff			1	
-	06-04 Principal works of technical s 06-05 Number of the financial staff	taff		Pump operation	
je.,	06-06 Principal works of financial s	taff		Water sale	
	06-07 Categories of water tariff		Point, House Connectionetc	W. Point	
(	06-08 Water tariff rate				
-	Water point (Public faucet)		Birr/L, 20L	0.2birr/20L nil.	
-	House connection  Business connection		Birr/m3	nil.	
(	06-09 Average monthly income by	water tariff	Birr/month	2,800birr/month	-
	06-10 Procurement of spare parts	at Tow	n, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts		il filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious rep		office, Private companyetc	Woreda water office	-
	06-13 Principal serious repair with 5 06-14 Fund for above 6-09, 6-10		ganization, Gov., Donorsetc		
ļ	06-15 Other technical specimen	<i>57</i> O12	, ,		

S-20 Manicho

07	Problem of actual town water supply			
	07-01 Technical	0 : 0 :		
	Water source	Quantity, Qualityetc.	Quality (Iron)	-
	Water supply facility	Decrepit, leakage, design failureeto	Pipe network is limited	_
	07-02 Finalcial  Management			-
	Rate of water tarrif collection		Not grasped	
	Personnel expenses		Not budget due to suspension of operation	
	Shortage of budget to execute operation	& maintenace	ditto	
	07-03 Other incidential, Special specimen			·
	Increase in population to consume water	coming from other towns, villagesetc	Increase population from villages	
	Change in industry	increase factory, Tradingetc		
	Human conflict	Ethnic, Administrativeetc	nil.	
	07-04 Other specimen			
08		ountaion, bottom of valley, Top of ridgeetc.	)	
	Town is on the top of ridge.			_
				-
09	Necessary Institution (Facility, Material)			+
0)	Refer to Chapter 4 "Table 4.7"			-
				<u> </u>
10	Current Water Coverage (%) (by water consum	nption at faucets)	2.5%	
	(1.0m3*2PF+0m3*0HC+0m3*0BC)=2.0m3/da			
	Current Water Coverage (%) (by data of water		179%	
	((5.0L)*3600sec.*8hrs)=144000L/day 144000	/20Lcd=??persos 7200persons/4017populati		
11	Water Potential (A / B / C / D / E)		C	_
1.0	A 777 (A / P / G / P / F	Dec Comme (C Coll C   1 20 C   20 C	t Assessed and Total Control	+
12		=Base Course/C=Sub Grade/D=Only Dry Season/E=No idth > 6m /B= >3~6m / C= 1~3m / D= <1m	t Approached B / B	<del> </del>
	A=Road w Access is Sub Grade road 13km approx. from A			-
12	Manpower Capability of Water Supply Manage		8	+
13	Manpower Capability of water Supply Manage	ment by water Office point)	0	-
				-
14	Dgree of urgency (A / B / C / D / E)			
1.	Refer to Chapter 5 & 7			1
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian sta	ndard, whichis not required more advanced tec	chnology. However, it is necessary to	
	consider of simple water treatmentfacility to re-	luce Iron for improvement water quality. The	small town is on the gentle ridge, howe	ver,
	construction work is not difficult.			
16	Other Donors, NGO's			_
	nil.			
17	Main Ethnic Group		Sidama	+
1 /	Main Ethine Group		Sidalila	-
18	Health conditions			
	-1 Medical facilities in Town		Health Center, Private clinic, Drug sto	re
	-2 Nearest other facilities from Town	km	44	Ī
	-3 Main patients of water born diseases	persons / year	Dysentery 75	1
			Typhoid 43	]
			Mararia 40	
			Diarrhea 25	
			others 50	
19	Main economic activities		Trade, Farming, Livestock	ļ
				1
0.5				1
20	Particular comments:	hoom grounded desire to writer. Pr. G.		
20	Water supply facility (incl. well operation) has		nn for town population. Homes it is	!
20	Water supply facility (incl. well operation) has The existing water supply facility, which consti	ructed on 2004 is not commensurate with desig	en for town population. Hence, it is	!
	Water supply facility (incl. well operation) has The existing water supply facility, which constructs necessary to construct new facility which to be	ructed on 2004 is not commensurate with desig	en for town population. Hence, it is	!
	Water supply facility (incl. well operation) has The existing water supply facility, which consti	ructed on 2004 is not commensurate with desig	an for town population. Hence, it is	!
	Water supply facility (incl. well operation) has The existing water supply facility, which constructs necessary to construct new facility which to be	ructed on 2004 is not commensurate with desig	an for town population. Hence, it is	!
	Water supply facility (incl. well operation) has The existing water supply facility, which constructs necessary to construct new facility which to be Remarks:	ructed on 2004 is not commensurate with desig		
21	Water supply facility (incl. well operation) has The existing water supply facility, which constructs necessary to construct new facility which to be Remarks:	ucted on 2004 is not commensurate with design included facility expansion.		!
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		!
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		!
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		!
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		!
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		1
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		!
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		1
21	Water supply facility (incl. well operation) has The existing water supply facility, which constnecessary to construct new facility which to be Remarks:  Ato Abrhar	ucted on 2004 is not commensurate with design included facility expansion.		!

S-20 Manicho



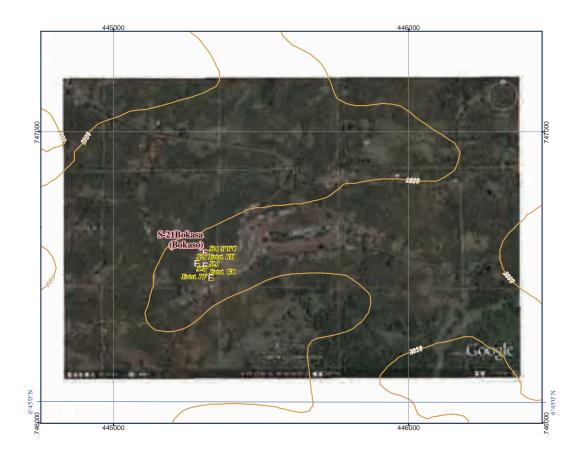
S-21 Bokasa

SNNPR			18 / 52	
Name of small to	own :	Bokasa (Boka	iso) S- 21	
Name of Wored	a :	Wensho	SW- 16	
Name of Zone		Sidama	SZ- 04	
	Profile items		Profile	!
1 Population				<u> </u>
Town	male / female / total	by SNNPR	1,044 995 2,0	039
Woreda	male / female / total	by Census 2007	61,199 59,456 120,0	
percentage of Tov	wn in Woreda	•		7%
2 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	445220 746447 2,0	010
3 Town Status			Municipality	
4 Water Source				
04-01 Water source		Type, No.	Well*1no.	
04-02 Well spec.			GL-132m, 6*5/8", GL-62.1m, 1L/s	ec.
04-03 Method of water	draw	Pump, Gravity	Pump Motorized pump (0.38kw)	
04-04 Pump Spec. 04-05 Power source for	motorized numn	Type, Yield Type, Kva	Solar panel	
	er draw (Operation hours)	daily hours, time	Day time	
04-07 Water quality	t draw (Operation nodrs)	Iron, Fluorideetc.	Good	
04-08 Other technical sp	necimen	non, Puorideetc.	0004	
or oo oner teemnears	,			
5 Existing Water Supply l	Facilities			$\dashv$
05-01 Established year		(Gregorian calendar)	2006	
05-02 Financial of impl	ementation	Donor's name	Action Flame, Unicef	
05-03 Name of impleme	entation (Project name)		Bokasa town water supply project	
05-04 Intake Type			Well	
05-05 Intake No.			1no.	
	e (Water source ~ Reservoir)	Pipe material, length	GIP, 1*1/4", 18m	
05-07 Power to convey		Pressure, Gravity	Pressure	
05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment of		m3/day	nil.	
05-10 Water reserver ty		Туре	GR (Roto tank)	
05-11 Water reserver N		no.	lno.	
05-12 Water reserver Ca	apacity be (Booster pump Stn. ~ Reservoir)	m3 Pipe material, length	nil.	
05-14 Power to transmit		Pressure, Gravity	nil.	
05-15 Distribution Type		Pipe material, length	GIP, 1*1/2", 50m	
05-16 Power to distribu		Pressure, Gravity	Gravity	
	water point (Public Faucet, PF)	RC, Masonry, Pipeetc.		
	point (Public Faucet, PF)	no.	lno.	
	at a water point (Public Faucet, PF	no.	4	
05-20 Average of daily	water consumption at a water point	(PF) m3/day	2m3/day	
05-21 Number of House	Connection (HC)		nil.	
05-22 Average of daily w	ater consumption of House Connection(	(HC) m3/day	nil.	
05-23 Number of Busin			nil.	
05-24 Type of Business		School, Gov. office, Hospitaletc		
	ter consumption of Business Connection	(BC) m3/day	nil.	
05-26 Other technical sp	pecimen			
6 Operation and Maintena			D-1	
06-01 Organization's na		Decision 1 Zeros Established	Bokasa water supply system  Community based organization	
06-02 Type of organizat 06-03 Number of thechi		Regional, Zone, Enterpriceetc	nil.	
06-04 Principal works of			nil.	
06-05 Number of the fir			1	
06-06 Principal works of			Water sale	
06-07 Categories of wat		W.Point, House Connectionetc		
06-08 Water tariff rate		5111, 12000 Comiconor00		
Water point (Pub	lic faucet)	Birr/L, 20L	0.2birr/20L	
House connection		Birr/m3	nil.	
Business connect	ion	Birr/m3	nil.	
	income by water tariff	Birr/month	640birr/month	
		Гоwn, Zonal Cap. Reg. Capetc.		
06-10 Procurement of sp		Oil filter, Fuel filter, Pipesetc		
06-10 Procurement of sp 06-11 Principal spare pa 06-12 Method in case or	f serious repair by Region	onal office, Private companyetc		
06-10 Procurement of sy 06-11 Principal spare pa 06-12 Method in case of 06-13 Principal serious	f serious repair by Region repair with 5-10 years		Solar system	
06-10 Procurement of sp 06-11 Principal spare pa 06-12 Method in case or	f serious repair by Region repair with 5-10 years -09, 6-10 by	onal office, Private companyetc Organization, Gov., Donorsetc		

S-21 Bokasa

	Problem of actual town water supply			
	07-01 Technical			
		Water shorta	ge	
	Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial			
		Not grasped		
		Not grasped		
		Not grasped		
		Shortage budg	get for O&M (Solar syster	n)
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc		villages	
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other specimen			
		-		
98	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town is on the top of ridge.			
)9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			1
				1
0	Current Water Coverage (%) (by water consumption at faucets)		5%	$\top$
_	(2m3*1PF+0m3*0HC+0m3*0BC)=2.0m3/day 2.0m3/20Lpcd.= 100persons 100persons / 2,	.039 populati		$\dashv$
	Current Water Coverage (%) (by data of water source product))	, populati	71%	-
	((1.0L)*3600sec.*8hrs)=28800L/day 28800/20Lcd=1440persos 1440persons/2039population	n=71%	/ 1 /0	┥
	Water Potential $(A/B/C/D/E)$	/11-/1/0	C	+
1	water rotelitar (A/B/C/D/E)			+
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B / B	+
1.2	A=Road Width $> 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$	Approactieu	D / D	┥
_	Access is Sub Grade road 16km approx. from Asphalt road at Yirga Alem (39km from Awasa)	1		+
3	Manpower Capability of Water Supply Management by Water Office (point)		6	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	Refer to the Chapter 6			
				-
		nnology. The	small town is on the rid	ge,
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.	nnology. The	small town is on the rid	ge,
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech	nnology. The	small town is on the rid	ge,
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.	nnology. The	small town is on the rid	ge,
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's	nnology. The	small town is on the rid	ge,
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's  Action Flame, Unicef	nnology. The	small town is on the rid	ge,
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's  Action Flame, Unicef		small town is on the rid	ge,
17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's  Action Flame, Unicef  Main Ethnic Group		small town is on the rid	ge,
17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions	Sidama		ge,
17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town	Sidama  Health Cente		ge,
17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama Health Cente 15	r	ge,
17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15  Dysentery	т 494	ge,
17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15  Dysentery Typhoid	r 494 430	ge,
7	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15  Dysentery Typhoid Diarrhea	494 430 371	ge,
.7	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria	494 430 371 149	gge,
7 8	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15  Dysentery Typhoid Diarrhea	494 430 371 149	ge,
7 8	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria	494 430 371 149	ge,
.7	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
7 8	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
7 8	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
9 80	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small towns	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
.7 8	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge.
18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small towns	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
7 8 9 0	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small towns	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
9 00	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge.
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7 8 9 0	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
9 00	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	gge,
9 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	gge,
9 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,
.7 .8 .9 .20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech construction works is required some ingenuity.  Other Donors, NGO's Action Flame, Unicef  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Town population is less than 2,000 persons in accordance with list of the candidate small town.	Sidama  Health Cente 15 Dysentery Typhoid Diarrhea Malaria Farming, Tra	494 430 371 149	ge,

S-21 Bokasa



S-22 Chuko

	SNNPR		19 / 52	
	Name of small town :	Chuko	S- 22	
	Name of Woreda :	Alta Chuko	SW- 41	
	Name of Zone :	Sidama	SZ- 04	
	Profile items		Profile	!
01	Population Town male / female / t Woreda male / female / t percentage of Town in Woreda	,	4,756 4,125 8,881 88,243 83,424 171,667 5.2%	
_	Town Coordination UTM (Adindan)	) Easting / Northig / Alt.	426989 728179 1,868	
	Town Status		Woreda Capital	
04	Water Source 04-01 Water source	Type, No.	Well*3nos.	
	04-02 Well spec.	Depth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	Pump	
	04-04 Pump Spec.	Type, Yield	Motorized pump	
	04-05 Power source for motorized pump	Type, Kva	Commercial Elec. & SB. Generators	
	04-06 Durartion of water draw (Operation hours)	daily hours, time  Iron, Fluorideetc.	07:00-12:00, 15:00-18:00 (8hrs/day) On spec.(ETH Standard &WHO)	
	04-07 Water quality 04-08 Other technical specimen	iron, Fluorideetc.	nil.	
	5. 55 Sher teenned specifici			
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1981	
	05-02 Financial of implementation	Donor's name	SNNPRS	
	05-03 Name of implementation (Project name) 05-04 Intake Type		Chuko water supply satelite Well	
	05-05 Intake No.		3	
	05-06 Conveyance Type (Water source ~ Reservoir	) Pipe material, length	GIP&PVC, 2-1/2", 4,559m see below memo	
	05-07 Power to convey	Pressure, Gravity	Pressure	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	GR (Masonry with Core) & ER (Poly) GR*1no., ER*2nos.	
	05-11 Water reserver Tvo.	m3	GR100m3*1no., ER8m3*2nos.	
	05-13 Transmission Type (Booster pump Stn. ~ Res		-	
	05-14 Power to transmit	Pressure, Gravity	-	
	05-15 Distribution Type	Pipe material, length	GIP, 1~6", 10,900m see below memo	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, 05-18 Number of water point (Public Faucet, PF)	PF) RC, Masonry, Pipeetc.	17	
	05-19 Number of faucet at a water point (Public Fau		6	
	05-20 Average of daily water consumption at a water		1m3/day or less	
	05-21 Number of House Connection (HC)		980 (Avr. 5psn./house)	
	05-22 Average of daily water consumption of House Cor	nnection(HC) m3/day	2m3/day (67Lpcd.)	!
	05-23 Number of Business Conection (BC)		13	
	05-24 Type of Business Connection (BC) Fa 05-25 Average of daily water consumption of Business Co	actory, School, Gov. office, Hospitaletc nnection (BC) m3/day	School*6, Gov.*6, Health center*1 8m3/day	
	05-26 Other technical specimen	inicction (BC) III3/day	Drawing was missied. Hand schetch only.	
	os 20 o mos commens specimen			
06	Operation and Maintenace			
	06-01 Organization's name		Town water supply service	
	06-02 Type of organization	Regional, Zone, Enterpriceetc	Town	
	06-03 Number of thechnical staff 06-04 Principal works of technical staff		Operation, Maintenance	
	06-05 Number of the financial staff		8	
	06-06 Principal works of financial staff		Water meter read, Bill	
	06-07 Categories of water tariff	W.Point, House Connectionetc	Water Point / House Connnection	
	06-08 Water tariff rate			
	Water point (Public faucet)	Birr/L, 20L	0.2birr/25L see below memo	
	House connection  Business connection	Birr/m3 Birr/m3	3.5birr/m3 see below memo ditto	<b></b>
	06-09 Average monthly income by water tariff	Birr/month	19.000bir/month	
	06-10 Procurement of spare parts	at Town, Zonal Cap. Reg. Capetc.	Dila, Wondo, Awasa, Addis Ababa	
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc	Water meter, Pipe&Fitting, Filter of GI	
		by Regional office, Private companyetc	SNNPR	
	06-13 Principal serious repair with 5-10 years		ER leakage, GE broken, Elec. Transfomer broken	<b> </b>
	06-14 Fund for above 6-09, 6-10	by Organization, Gov., Donorsetc		<b></b>
	06-15 Other technical specimen		Existing facility is not able to cover current water demand (Request to	
Ц			carrent water demand (Request to	

S-22 Chuko

	Problem of actual town water supply		
l	07-01 Technical		
l	Water source Quantity, Qualityetc.	No answer	
l	Water supply facility Decrepit, leakage, design failureetc	see below m	iemo
	07-02 Finalcial		
	Management	see below m	iemo
ı	Rate of water tarrif collection	No answer	
1	Personnel expenses	No answer	
	Shortage of budget to execute operation & maintenace	No answer	
ŀ		No aliswei	
	07-03 Other incidential, Special specimen		
ļ	Increase in population to consume water coming from other towns, villagesetc		
- [	Change in industry increase factory, Tradingetc	Extremely li	ittle
[	Human conflict Ethnic, Administrativeetc	nil.	
	07-04 Other specimen	nil.	
Ì		***************************************	
8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)	
	Town : Flat area		
-			
9	Necessary Institution (Facility, Material)		
-	Refer to Chapter 4 "Table 4.7"		
-			
_			
	Current Water Coverage (%) (by water consumption at faucets)		1113%
	(1m3*17PF+2m3*980HC)=1,977m3/day 1,977m3/20Lpcd.= 98,850 persons 98,850 person	ns / 8,881 pop	pulation = 1,113%
ĺ	Current Water Coverage (%) (by data of water source product))		%
Ì	((??L+??L+??L)*3600sec.*8hrs)=??day ??/20Lcd=??persos ??persons/8881population=	??%	*
	Water Potential (A / B / C / D / E)		В
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	A / A
	Town along the Asphalt road $A=Road Width > 6m/B = 33\sim6m/C = 1\sim3m/D = <1m$	rpprouencu	11/11
		20000011-11:4- "	400000000000000000000000000000000000000
	Access road is Asphalt road 24km from Dila. * Refer to Chapter 5 "Table 5-7: Categories of a	accessibility	10
3	Manpower Capability of Water Supply Management by Water Office (point)		19
4	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		,
5	New Water Supply Plan		
5	New Water Supply Plan Refer to the Chapter 6	J. J. The	
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The	e small town is on the
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.	chnology. The	e small town is on the
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The	e small town is on the
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.	chnology. The	e small town is on the
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.	chnology. The	e small town is on the
5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.	Sidama, Silt	
5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's		
5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's		
5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions	Sidama, Silt	e
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town	Sidama, Silt Health Cente	e er, Private clinic
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5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama, Silt  Health Center  27  Diarrhea  Dysentery	er, Private clinic  520 433
5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama, Silt  Health Cente 27  Diarrhea  Dysentery  Malaria	eer, Private clinic  520 433 415
5 .	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama, Silt  Health Center  27  Diarrhea  Dysentery	er, Private clinic  520 433
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5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Sidama, Silt  Health Cente 27  Diarrhea Dysentery Malaria Typhoid Cholera	er, Private clinic  520 433 415 210 173 325
5	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Sidama, Silt  Health Center 27  Diarrhea Dysentery Malaria Typhoid Cholera others	er, Private clinic  520 433 415 210 173 325
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5 7 8	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Credibility of above water coverage is consideredlow. This facility has 3 wells which are under the content of	Sidama, Silt  Health Center 27  Diarrhea Dysentery Malaria Typhoid Cholera others Trade, Farm er operation a	er, Private clinic  520 433 415 210 173 325 ing  nd in good operating order  Stand-by Generator 45kv
66	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Credibility of above water coverage is consideredlow. This facility has 3 wells which are under the content of the	Sidama, Silt  Health Center 27  Diarrhea Dysentery Malaria Typhoid Cholera others Trade, Farm  er operation a	er, Private clinic  520 433 415 210 173 325 ing  nd in good operating order  Stand-by Generator 45kv
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33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Credibility of above water coverage is consideredlow. This facility has 3 wells which are under the content of the	Sidama, Silt  Health Center 27  Diarrhea Dysentery Malaria Typhoid Cholera others Trade, Farm  er operation a	er, Private clinic  520 433 415 210 173 325 ing  nd in good operating order  Stand-by Generator 45kv

Well No.3 to ER  $\,$  GIP 2" L=500m  $\,$  PVC L=2,500m  $\,$  Total L=4,559m  $\,$ 

05-15 Distribution Type

S-22 Chuko

GIP 1"=800m GIP 3"=2,450m GIP 1*1/2"=960m

GIP 2"=4,760m

GIP 6"= 950m Total L=10,900m

06-08 Water Tariff (House and Business Connection)

 $0 \sim 5 \text{ m}3 = 3.5 \text{birr/m}3$ 

Water meter lease ; dia. 1/2"= 3.0birr/month dia. 3/4"= 4.0birr/month

6 ~ 30m3= 5.0birr/m3 dia. 1"= 5.0birr/month

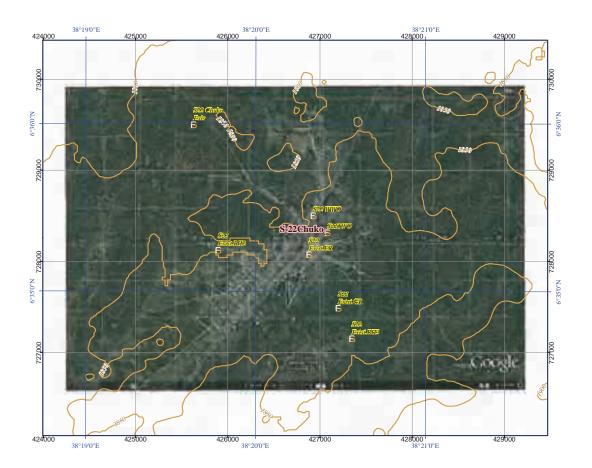
07-01 Technical

Deterioration of facility (Leakage, broken), Lack of Design (Pipe network), Interruption & unstable voltage of Commercial Ele

07-01 Financial

Fuel for Generator from other towns, Missing documents and drawings

S-22 Chuko



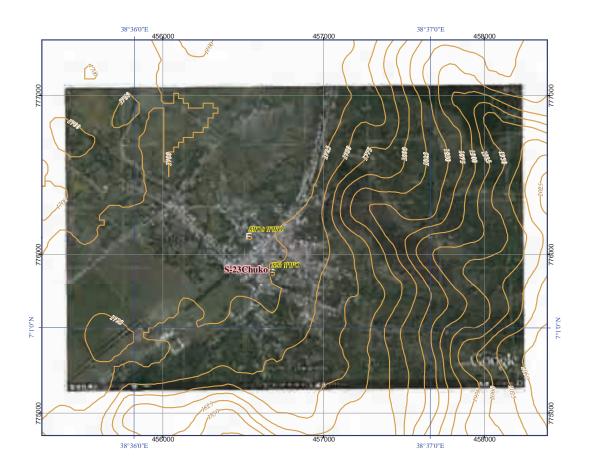
S-23 Chuko

	SNNPR		20 / 5	52
	Name of small town :	Chuko	S- 23	3
	Name of Woreda :	Wendo Gen	et SW- 18	3
	Name of Zone :	Sidama	SZ- 04	4
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	7,936 6,690	14,626
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	78,365 74,918	153,283 9.5%
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	456586 775754	1,718
	Town Status		Municipality	
04	Water Source 04-01 Water source	Type, No.	Spring	
		Depth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	Gravity	
	04-04 Pump Spec.	Type, Yield	nil.	
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours)	Type, Kva daily hours, time	nil. 24hors.	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen	non, ruondeee.	0004	
05	Existing Water Supply Facilities	(Cild)	1986	
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar)  Donor's name	SNNPR	
	05-03 Name of implementation (Project name)		Kella kebele abaya spring	***************************************
	05-04 Intake Type		Spring	
	05-05 Intake No.	Diagonata da la anti-	1no. GIP. 2", 2,000m	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	Gravity	
	05-07 Fower to convey 05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Type	Gravity	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	1no. 50m3	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	***************************************
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	GIP, 2*1/2"*1,400m, 2"*5,38	87m
	05-16 Power to distribute	Pressure, Gravity	Gravity Mansonry	
	05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	12nos.	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6nos.	
	05-20 Average of daily water consumption at a water point (I	PF) m3/day	2.0m3/day	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(H	IC) 2/1	482	
	05-22 Average of daily water consumption of House Connection(H 05-23 Number of Business Conection (BC)	IC) m3/day	0.266m3/day 29	
		chool, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection (F		0.6m3/day	
	05-26 Other technical specimen			
06	Operation and Maintenace			
00	06-01 Organization's name		Wondo genet town water sup	ply office
	06-02 Type of organization	Regional, Zone, Enterpriceetc		
	06-03 Number of thechnical staff		4	
	06-04 Principal works of technical staff		Plumbing, maitenance	
	06-05 Number of the financial staff 06-06 Principal works of financial staff		Water meter read, Bill	
	1	W.Point, House Connectionetc.		
	06-08 Water tariff rate			
	Water point (Public faucet)	Birr/L, 20L	0.15birr/20L	
	House connection  Business connection	Birr/m3 Birr/m3	see below memo ditto	
	06-09 Average monthly income by water tariff	Birr/month	8,800birr/month	
		own, Zonal Cap. Reg. Capetc.	Sheshemane	***************************************
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc	Pipes&fittings	
		nal office, Private companyetc		
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by C	Organization, Gov., Donorsetc.	Pipe line was dismantled by Road co	onstruction
	06-15 Other technical specimen	715umzation, 00v., Dollorsetc.	a.c. suppij office	
	<u></u>			

S-23 Chuko

	Problem of actual town water supply			
(	07-01 Technical			
ļ.	Water source	Quantity, Qualityetc.	L	of water source by resident
-	Water supply facility	Decrepit, leakage, design failureetc	Expantion pi	pe line without design
(	07-02 Finalcial			
-	Management		Good	
	Rate of water tarrif collection		Good	
L	Personnel expenses		Good	
ļ	Shortage of budget to execute operation a	& maintenace	Shortage	
(	07-03 Other incidential, Special specimen			
	Increase in population to consume water	coming from other towns, villagesetc	Coming fron	n other towns & villagers
l	Change in industry	increase factory, Tradingetc.	.nil.	
Ĺ	Human conflict	Ethnic, Administrativeetc	Often	
(	07-04 Other specimen			
)8	Geographical condition (Slope on mo	ountaion, bottom of valley, Top of ridgeetc.)	)	
ľ	Town is on the flat area & gentle slope			
Ī				
	Necessary Institution (Facility, Material)			
7	Spring source shall be capped by rehabilitation	by water office.		
Ī	Refer to Chapter 4 "Table 4.7"			
_ [				
	Current Water Coverage (%) (by water consum			58%
Ī	(2m3*12PF+0.266m3*482HC+0.6m3*29BC)=	170m3/day 170m3/20Lpcd.=8500persons 8	3500persons /	14626population =58%
	Current Water Coverage (%) (by data of water	source product))		?? %
-	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??p			
	Water Potential (A / B / C / D / E)	<u>, , , , , , , , , , , , , , , , , , , </u>		С
t	<u> </u>			
2	Accessibility (A / B / C / D / E) A=Asphalt/B=	-Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	B / A
ľ		$idth > 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$		
ľ	Access road is Asphalt road & Base course 24k	m from Awasa. * Refer to Chapter 5 "Table 5-	7: Categories	of accessibility"
$\overline{}$	Manpower Capability of Water Supply Manage	•		11
	manpower capability of mater supply manage	ment by water office points		**
ŀ				
	D ( ( ( ) D ( C ( D ( F )			
14				
	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
	Refer to Chapter 5 & 7			
15	Refer to Chapter 5 & 7  New Water Supply Plan			
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian sta			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statoroubles, conflicts with neighborhoods for developments.			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for developments in the state of the			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statoroubles, conflicts with neighborhoods for develowork is not difficult.  Other Donors, NGO's			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for developments in the state of the			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stateroubles, conflicts with neighborhoods for develowork is not difficult.  Other Donors, NGO's  Refer to the Chapter 6			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statoroubles, conflicts with neighborhoods for develowork is not difficult.  Other Donors, NGO's			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stateroubles, conflicts with neighborhoods for develowork is not difficult.  Other Donors, NGO's  Refer to the Chapter 6		the generally	
15 16 17	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for develower is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions		n the generally Sidama	y flat terrains, construction
15 <u> </u> 16 <u> </u> 17 <u> </u>	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for develors not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group		n the generally Sidama	
15 .	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for develower is not difficult.  Other Donors, NGO's  Refer to the Chapter 6  Main Ethnic Group  Health conditions		n the generally Sidama	y flat terrains, construction
5 .	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for development of the conflict of the conflict of the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	lopment of water sources. The small town is or	Sidama  Private clinic	y flat terrains, construction
5 .	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for development of the property of the property of the property of the Polymer Order Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	lopment of water sources. The small town is or	Sidama  Private clinic 26	y flat terrains, construction
5 .	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for development of the property of the property of the property of the Polymer Order Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	lopment of water sources. The small town is or	Sidama  Private clinic 26  Mararia	y flat terrains, construction y flat terrains, construction c, Drug store, Health post 4,215
5	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for development of the property of the property of the property of the Polymer Order Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	lopment of water sources. The small town is or	Sidama  Private clinic 26  Mararia Cholera Typhoid	c, Drug store, Health post 4,215 264 166
6 2 7 8 2 8	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for develowork is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	lopment of water sources. The small town is or	Sidama  Private clinic 26  Mararia Cholera Typhoid others	c, Drug store, Health post 4,215 264 166 3,470
16 17	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian statroubles, conflicts with neighborhoods for development of the property of the property of the property of the Polymer Order Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	lopment of water sources. The small town is or	Sidama  Private clinic 26  Mararia Cholera Typhoid others	c, Drug store, Health post 4,215 264 166
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stateroubles, conflicts with neighborhoods for develowers is not difficult.  Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	lopment of water sources. The small town is or	Sidama  Private clinic 26  Mararia Cholera Typhoid others	c, Drug store, Health post 4,215 264 166 3,470
15	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for develowork is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Sidama  Private clinic 26  Mararia Cholera Typhoid others Trade, Farmi	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock
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7 8 9	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian sta troubles, conflicts with neighborhoods for devel work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating by	km persons / year  tion is more than 14,000 persons in accordance by people.	Sidama  Private clinic 26  Mararia Cholera Typhoid others Trade, Farmi	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock
7 8 8	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian sta troubles, conflicts with neighborhoods for devel work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating b Pipe line has been expanded every year with ou	km persons / year  tion is more than 14,000 persons in accordance by people.	Sidama  Private clinic 26  Mararia Cholera Typhoid others Trade, Farmi	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock
5 6 7 8 9 9	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian sta troubles, conflicts with neighborhoods for devel work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating by	km persons / year  tion is more than 14,000 persons in accordance by people. t plan for Neighboring villages & towns like Ir	Sidama  Private clinic 26 Mararia Cholera Typhoid others Trade, Farmi e with list of the	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock the candidate small towns.
5 6 7 8 9 9	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian sta troubles, conflicts with neighborhoods for devel work is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating b Pipe line has been expanded every year with ou	km persons / year  tion is more than 14,000 persons in accordance by people.	Sidama  Private clinic 26 Mararia Cholera Typhoid others Trade, Farmi e with list of the	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock the candidate small towns.
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15 16 !! 17 18	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for develowork is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating be Pipe line has been expanded every year with ou Remarks:	km persons / year  tion is more than 14,000 persons in accordance by people. t plan for Neighboring villages & towns like Ir	Sidama  Private clinic 26 Mararia Cholera Typhoid others Trade, Farmi e with list of the	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock the candidate small towns.
15 16 ! 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for develowork is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating be Pipe line has been expanded every year with ou Remarks:  o (Town sketchetc.):	km persons / year  tion is more than 14,000 persons in accordance by people. t plan for Neighboring villages & towns like Ir  Mr. Kassu Haile Wondo Ger	Sidama  Private clinic 26 Mararia Cholera Typhoid others Trade, Farmi e with list of the	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock the candidate small towns.
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15 16 ! 17 18 19 21	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian state troubles, conflicts with neighborhoods for develowork is not difficult. Other Donors, NGO's Refer to the Chapter 6  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Ethnic conflict has been appeared. Town popula Water source (spring) has been contaminating be Pipe line has been expanded every year with ou Remarks:  o (Town sketchetc.):	km persons / year  tion is more than 14,000 persons in accordance by people. t plan for Neighboring villages & towns like Ir Mr. Kassu Haile Wondo Ger	Sidama  Private clinic 26 Mararia Cholera Typhoid others Trade, Farmi e with list of the	c, Drug store, Health post 4,215 264 166 3,470 ing, Livestock the candidate small towns.
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S-23 Chuko



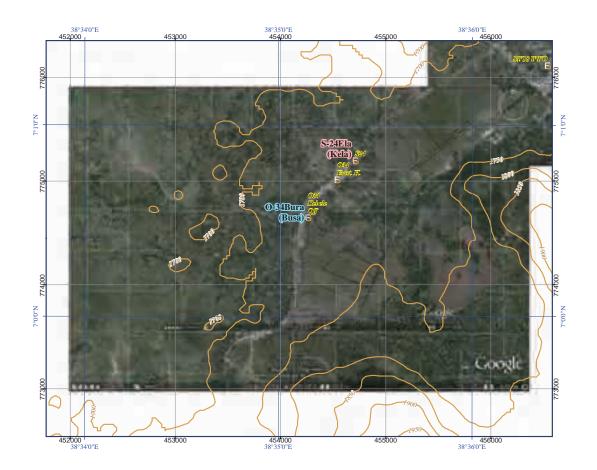
S-24 Ela(Kela)

	南部州				21 /	52	
	小都市名	:	Eka (Kela)		S- 2	24	
	ワレダ名		Wendo Gen	et	SW- T	ransmi	
	ゾーン名		Sidama		SZ- 0	)4	
		Profile items			Profile		!
01	Population						
	Town	male / female / total	by SNNPR	2,803	2,456	5,259	
	Woreda	male / female / total	by Census 2007	78,365	74,918	153,283	
02	percentage of Town Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	454618	775068	3.4% 1,700	
_	Town Status	e III (Hamaan)	Bushing / Troiting / Thu	Municipality	772000	1,700	
	Water Source						
	04-01 Water source		Type, No.	Spring*1no.			
	04-02 Well spec. 04-03 Method of water d	r9W	Depth., Casing Dia., S.W.L Pump, Gravity	6 or more L/sec Gravity	c. approx.		
	04-04 Pump Spec.	iaw	Type, Yield	nil.			
	04-05 Power source for n	notorized pump	Type, Kva	nil.			
	04-06 Durartion of water	draw (Operation hours)	daily hours, time	24hrs.			
	04-07 Water quality		Iron, Fluorideetc.	Good			
	04-08 Other technical spe	ecimen		3 Outlet pipes	are not use (d	ischarging)	!
05	Existing Water Supply Fa	acilities					
	05-01 Established year		(Gregorian calendar)	1986 / 2007			\
	05-02 Financial of imple		Donor's name	UNICEF / IRC	(Expansion)		
	05-03 Name of implement	ntation (Project name)		Kela water pro	ject		
	05-04 Intake Type			Spring			
	05-05 Intake No.	(Water source ~ Reservoir)	Pipe material, length	1 GIP, 2*1/2", ?	29m		!
	05-07 Power to convey	(Water source ~ Reservoir)	Pressure, Gravity	Gravity	( (111		•
	05-08 Water treatment		Disinfection, Ironetc.	nil.			
	05-09 Water treatment ca	npacity	m3/day	nil.			
	05-10 Water reserver typ		Туре	GR			
	05-11 Water reserver No.		no.	GR*1nos.			
	05-12 Water reserver Cap	pacıty e (Booster pump Stn. ~ Reservoir	m3	50m3			
	05-14 Power to transmit	e (Booster pullip Stil. ~ Reservoir	r) Pipe material, length Pressure, Gravity	-			
	05-15 Distribution Type		Pipe material, length	GIP 2"*???m / PV	C 2"*682m / ot	ther 20km ?	!
	05-16 Power to distribute	>	Pressure, Gravity	Gravity			
		water point (Public Faucet, PF)	RC, Masonry, Pipeetc.				
	05-18 Number of water p		no.	6			
		at a water point (Public Faucet, P vater consumption at a water poin		3m3/day			
	05-21 Number of House		ii (11)	342			
		ter consumption of House Connection	n(HC) m3/day	0.5m3/day			
	05-23 Number of Busines			nil.			
	05-24 Type of Business (		School, Gov. office, Hospitaletc				
	05-25 Average of daily water	er consumption of Business Connection	on (BC) m3/day	nil. nil.			
	03-20 Other technical spe	ecimen		1111.			
06	Operation and Maintenac	ce					
	06-01 Organization's nan	ne		Wondo Genet Cho	uko Water Supp	ly Enterprise	
	06-02 Type of organization		Regional, Zone, Enterpriceetc	<b></b>			
	06-03 Number of thechni 06-04 Principal works of			4 Maintenance, I	Ding rone:		
	06-04 Principal works of 06-05 Number of the fina			6	ripe repair		
	06-06 Principal works of			Water fee corre	ction, Bille	etc.	
	06-07 Categories of wate		W.Point, House Connectionetc				
	06-08 Water tariff rate						
	Water point (Publi	c faucet)	Birr/L, 20L	Free			
	House connection Business connection	nn	Birr/m3 Birr/m3	see below men	10		
	06-09 Average monthly i		Birr/month	8,000birr/mont	h		
	06-10 Procurement of spa		Town, Zonal Cap. Reg. Capetc.				
	06-11 Principal spare par	ts	Oil filter, Fuel filter, Pipesetc	Water meter, P	ipe & fittings	3	
	06-12 Method in case of		gional office, Private companyetc		l		
	06-13 Principal serious re			Pipe leakage	1		
	06-14 Fund for above 6-0 06-15 Other technical spe		y Organization, Gov., Donorsetc	Zone, Regiona nil.	I		
	00-13 Outer technical spe	COHIOH		1111.			

S-24 Ela(Kela)

	Problem of actual town water supply				
	07-01 Technical				<u> </u>
	Water source	Quantity, Qualityetc.	No answer		
		pit, leakage, design failureetc	No answer		
-	07-02 Finalcial		NT		
	Management		No answer		
	Rate of water tarrif collection		No answer		
	Personnel expenses		No answer		
ļ	Shortage of budget to execute operation & maintenace		No answer		
	07-03 Other incidential, Special specimen				
ļ		from other towns, villagesetc	No answer		
	Change in industry	increase factory, Tradingetc.			
	Human conflict	Ethnic, Administrativeetc	Ethnic conflic	t	
	07-04 Other specimen				
					$\perp$
		m of valley, Top of ridgeetc.)	)		
	Town is slope of mountain and flat area along road				
	Necessary Institution (Facility, Material)				
	Rehabilitation of conveyance pipe line and new reservoir tank	(Ground Reservoir), Distribution	n pipe lines.		
	Refer to Chapter 4 "Table 4.7"				
					$oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$
	Current Water Coverage (%) (by water consumption at fauce			194%	J
	(3m3*11PF+0.5m3*342HC)=204m3/day 204m3/20Lpcd.=		/ 5,259 popula	ation = 194%	J
Ì	Current Water Coverage (%) (by data of water source produc	t))		493%	
	((6L)*3600sec.*24hrs)=518400L/day 518400/20Lcd=25920	persos 25920persons/5259pc	opulation=4939	%	╛
	Water Potential (A/B/C/D/E)		T	В	T
					T
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=	Sub Grade/D=Only Dry Season/E=Not	Approached	B / A	T
İ		>3~6m / C= 1~3m / D= <1m			┪
	Town along the under construction road. Distance from asph	alt payed road of Awasa is 15km	approx.		+
_	Manpower Capability of Water Supply Management by Wate			13	T
	Enterprise staff has not any of document, DWGS for existing				┪┈
ļ	Enterprise starr has not any or document, D webs for existing	water suppry facility.			
- 1					- 1
1.4	Darso of pragney (A / P / C / D / E)				Т
	Dgree of urgency (A / B / C / D / E)				4
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7				
15	Refer to Chapter 5 & 7  New Water Supply Plan	not required more advanced to	hnology Thor	o are come ricks of	
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis				
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa				
5	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.				
5	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's				
5	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.				
5	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.		n the generally		
5	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's				
5 6 7	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group		n the generally		
5 6 7	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions		n the generally Sidama	flat terrains, however,	
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis ttroubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	ter sources. The small town is or	Sidama  Health Center		ore
5 6 7	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	ter sources. The small town is or	Sidama  Health Center	flat terrains, however,	ore
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis ttroubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	ter sources. The small town is or	Sidama  Health Center 70  Mararia	flat terrains, however,  , Private clinic, Drug sto	ore
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	ter sources. The small town is or	Sidama  Health Center 70  Mararia Typhoid	flat terrains, however,  , Private clinic, Drug sterms 1,523 196	ore
5 6	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	ter sources. The small town is or	Sidama  Health Center 70  Mararia Typhoid Dysentery	flat terrains, however, , Private clinic, Drug ste 1,523 196 10	ore
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	ter sources. The small town is or	Sidama  Health Center 70  Mararia Typhoid Dysentery others	flat terrains, however,  , Private clinic, Drug sterms 1,523 196	ore
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	ter sources. The small town is or	Sidama  Health Center 70  Mararia Typhoid Dysentery	flat terrains, however, , Private clinic, Drug ste 1,523 196 10	ore
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	ter sources. The small town is or	Sidama  Health Center 70  Mararia Typhoid Dysentery others	flat terrains, however, , Private clinic, Drug ste 1,523 196 10	ore
5 7 8 9	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	ter sources. The small town is or	Sidama  Health Center 70  Mararia Typhoid Dysentery others	flat terrains, however, , Private clinic, Drug ste 1,523 196 10	ore
5 6 7 8 9	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Water intake is not corrected spring water efficiently.	km persons / year	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	flat terrains, however, , Private clinic, Drug ste 1,523 196 10	ore
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	flat terrains, however, , Private clinic, Drug ste 1,523 196 10	ore
5 6 7 8	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: Water intake is not corrected spring water efficiently.	km persons / year	Sidama  Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	flat terrains, however,  r, Private clinic, Drug ste  1,523 196 10 3,470	Dire
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a	km persons / year	Sidama  Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	flat terrains, however,  r, Private clinic, Drug ste  1,523 196 10 3,470	Dre
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technical	Sidama  Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	flat terrains, however,  private clinic, Drug sta  1,523 196 10 3,470  DWG etc.)	
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streat	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 7 8 0	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the stressmall town is a priority of tranquility for public safety.	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 7 8	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streat	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 7 8 0	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring and spri	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 7 8 0	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streasmall town is a priority of tranquility for public safety.  o (Town sketchetc.):	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 6 7 8 8 9 9 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring is discharged into the streamout of spring and rest of spring and spri	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technicate facility and conveyance pipes	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 6 7 8 8 9 0 1 1	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's  nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streasmall town is a priority of tranquility for public safety.  o (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Reservoir)  L=1,100m or more by GPS data	km persons / year  and 1 outlet pipe. (Loose water seacility and have not any technicate facility and conveyance pipes m. Hence, the capacity of spring	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 6 7 8 8 9 9 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply from the existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streamall town is a priority of tranquility for public safety.  o (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Reservoir)  L=1,100m or more by GPS data	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technica see facility and conveyance pipes am. Hence, the capacity of spring	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 6 7 8 8 9 0 1 1	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply f Remarks:  The existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the stressmall town is a priority of tranquility for public safety.  o (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Reservoir) L=1,100m or more by GPS data  06-05 Water tariff 0~5m3 = 1.25birr/m3  11~30m3 = 2.25birr/m3	km persons / year  and 1 outlet pipe. (Loose water seacility and have not any technicate facility and conveyance pipes m. Hence, the capacity of spring	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	
5 6 7 8 8 9 0 1 1	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis troubles, conflicts with neighborhoods for development of wa construction works is required some ingenuities.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Water intake is not corrected spring water efficiently.  Over half of spring source is descharged 2 drain pipes a Staff of the enterprise are not grasp their water supply from the existing water source (spring) has been convayed by intal amount of spring and rest of spring is discharged into the streamall town is a priority of tranquility for public safety.  o (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Reservoir)  L=1,100m or more by GPS data	km persons / year  and 1 outlet pipe. (Loose water so acility and have not any technica see facility and conveyance pipes am. Hence, the capacity of spring	Sidama  Health Center 70  Mararia Typhoid Dysentery others Faring, Trade	The flat terrains, however, private clinic, Drug sterns, 1,523 196 10 3,470  DWG etc.)	

S-24 Ela(Kela)



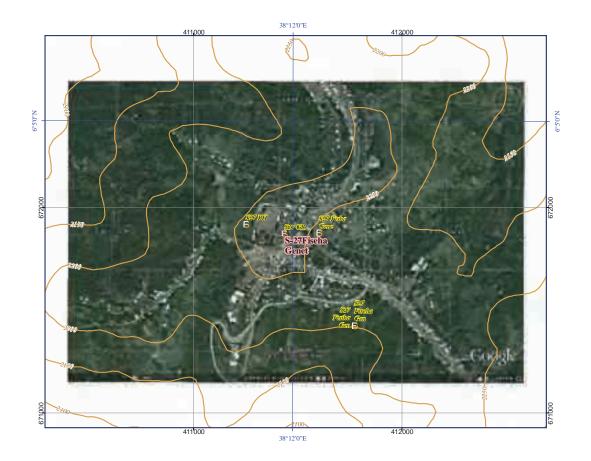
S-27 Fiseha Genet

	SNNPR		22 / 52	
	Name of small town :	Fiseha Gen	et S- 27	
	Name of Woreda :	Kochore	SW- 20	
	Name of Zone :	Gedeo	SZ- 05	
	Profile items		Profile	!
01	Population			+ •
	Town male / female / total	by SNNPR	2,107 2,082 4,189	9
	Woreda male / female / total	by Census 2007	65,235 66,183 131,418	
0.2	percentage of Town in Woreda	T : (N d: / 4):	3.2%	_
	Town Coordination UTM (Adindan) Town Status	Easting / Northig / Alt.	411345 671729 2,202 Municipality	2
_	Water Source		Wumerpanty	
	04-01 Water source	Type, No.	Well *1no.	
	04-02 Well spec.		GL-90m, 6*5/8", GL-??m., 1.73L/sec.	
	04-03 Method of water draw	Pump, Gravity	Pump	
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield	Mono Pump (Euroflo Pump) 2 cylider diesel engine	
	04-06 Durartion of water draw (Operation hours)	Type, Kva daily hours, time	06:00~10:00 (4hrs./day)	_
	04-07 Water quality	Iron, Fluorideetc.	Good	_
	04-08 Other technical specimen			<u> </u>
05	Existing Water Supply Facilities	(0 : 1 1)	1001	-
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar)  Donor's name	1981 Canadian International Development (CIDA)	_
	05-03 Name of implementation (Project name)	Donor's name	Fiseha Genet Water Supply Project	_
	05-04 Intake Type		Well	
	05-05 Intake No.		1no.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2", 200m	
	05-07 Power to convey	Pressure, Gravity	Pressure	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	_
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type 05-11 Water reserver No.	Туре	GR 1no.	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	25m3	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)		nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	See below memo	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc	Mansonry	
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6 6FC*3PF, 4FC*3PF	
	05-20 Average of daily water consumption at a water point		3.3m3/day	
	05-21 Number of House Connection (HC)	(11) moracy	61	- <del> </del>
	05-22 Average of daily water consumption of House Connection	(HC) m3/day	0.133m3/day	
	05-23 Number of Business Conection (BC)		nil.	
		School, Gov. office, Hospitaletc		
	05-25 Average of daily water consumption of Business Connection	n (BC) m3/day	nil.	-
	05-26 Other technical specimen			-
06	Operation and Maintenace			+
	06-01 Organization's name		Water supply office	-
	06-02 Type of organization	Regional, Zone, Enterpriceetc	Community based organization	
	06-03 Number of thechnical staff		2	
	06-04 Principal works of technical staff		Pump operation, Plumbing	-
	06-05 Number of the financial staff 06-06 Principal works of financial staff		Water meter read, Bill	-
	06-06 Principal works of financial staff 06-07 Categories of water tariff	W.Point, House Connectionetc		-
	06-08 Water tariff rate	om, mouse connectionetc	com, reduce connection	-
	Water point (Public faucet)	Birr/L, 20L	0.4birr/20L	
	House connection	Birr/m3	7.50birr/m3	
	Business connection	Birr/m3	nil.	
	06-09 Average monthly income by water tariff	Birr/month	4,800birr/month	
		Town, Zonal Cap. Reg. Capetc		-
	06-11 Principal spare parts 06-12 Method in case of serious repair by Reg	Oil filter, Fuel filter, Pipeseto ional office, Private companyeto		
	06-13 Principal serious repair with 5-10 years	ionai office, i fivate companyett	Engine broken	-
		Organization, Gov., Donorsetc	<u> </u>	<b>-</b>
	06-15 Other technical specimen			
1				

S-27 Fiseha Genet

\alpha					
	Problem of actual town water supply				
	07-01 Technical		***		
	Water source	Quantity, Qualityetc.	Water shortag		
	Water supply facility	Decrepit, leakage, design failureetc	Design failur	e or pipe lines	
ļ	07-02 Finalcial  Management		Not grasp		
	Rate of water tarrif collection		good		
	Personnel expenses		low		
	Shortage of budget to execute operation & ma	aintenace		get for O&M	
l	07-03 Other incidential, Special specimen			8	
	Increase in population to consume water	coming from other towns, villagesetc	Coming from	villagers	
Ì	Change in industry	increase factory, Tradingetc.			
l	Human conflict	Ethnic, Administrativeetc	nil.		
	07-04 Other specimen				
		aion, bottom of valley, Top of ridgeetc.)	)		
	Town is on the top of ridge				
20	NI I COLO OF THE NEW CO.				_
	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"				
	Refer to Chapter 4 Table 4.7				
10	Current Water Coverage (%) (by water consumption	on at faucets)		33%	-
	(3.3m3*6PF+0.133m3*61HC+0m3*0BC)=27.9m3/		395persons / 4		6
	Current Water Coverage (%) (by data of water sour			59%	
	((1.73L)*3600sec.*8hrs)=49824L/day 49824/20Lo		tion=59%		
	Water Potential (A/B/C/D/E)			С	
				<u> </u>	
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base		Approached	A/B	
		> 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access road from Yigra Chafe is asphalt paved. (45		5-7: Categori		
13	Manpower Capability of Water Supply Managemen	t by Water Office point)		16	
_					
14	Dgree of urgency (A / B / C / D / E)				
- 1					
	Refer to Chapter 5 & 7				
	New Water Supply Plan				
15	New Water Supply Plan The facility can be designed in an Ethiopian standar	d, whichis not required more advanced tec	hnology. The	small town is on the g	entle
15	New Water Supply Plan	d, whichis not required more advanced tec	hnology. The	small town is on the g	entle
15	New Water Supply Plan The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.	d, whichis not required more advanced tec	hnology. The	small town is on the g	entle
15	New Water Supply Plan The facility can be designed in an Ethiopian standar	d, whichis not required more advanced tec	hnology. The	small town is on the g	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's	d, whichis not required more advanced tec	hnology. The	small town is on the g	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's	d, whichis not required more advanced tec	chnology. The	small town is on the g	entl
15 16	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group	d, whichis not required more advanced tec		small town is on the g	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions	d, whichis not required more advanced tec		small town is on the g	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town		Gedeo Health Cente	r, Drug store	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Gedeo Health Cente 45	r, Drug store	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town		Gedeo Health Cente 45 Dysentery	r, Drug store	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Gedeo  Health Cente 45 Dysentery Typhoid	r, Drug store  209 50	entle
15	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Gedeo  Health Cente 45  Dysentery Typhoid Cholera	r, Drug store  209 50 50	entl
5 6 7 8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entl
.6	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Gedeo  Health Cente 45  Dysentery Typhoid Cholera	r, Drug store  209 50 50 280	entle
16 17 18	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entle
16 17 18	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entle
16 17 18	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entle
5 6 .7 8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entle
5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entle
5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others	r, Drug store  209 50 50 280	entle
5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280	entie
5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
.5 .6 .7 .8 .9	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Eshetu Obse Water Com	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Eshetu Obse Water Com	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
115 117 118 119 120	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Eshetu Obse Water Com	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
.5 .6 .7 .8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Eshetu Obse Water Com Mr. Tamirat Tsegaye Operate	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
.5 .6 .7 .8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Eshetu Obse Water Com Mr. Tamirat Tsegaye Operate	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
.5 .6 .7 .8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Eshetu Obse Water Com Mr. Tamirat Tsegaye Operate	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
.5 .6 .7 .8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Eshetu Obse Water Com Mr. Tamirat Tsegaye Operate	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
.5 .6 .7 .8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Eshetu Obse Water Com Mr. Tamirat Tsegaye Operate	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle
5 6 7 8	New Water Supply Plan  The facility can be designed in an Ethiopian standar ridge, however, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Eshetu Obse Water Com Mr. Tamirat Tsegaye Operate	Gedeo  Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store  209 50 50 280 ng	entle

S-27 Fiseha Genet



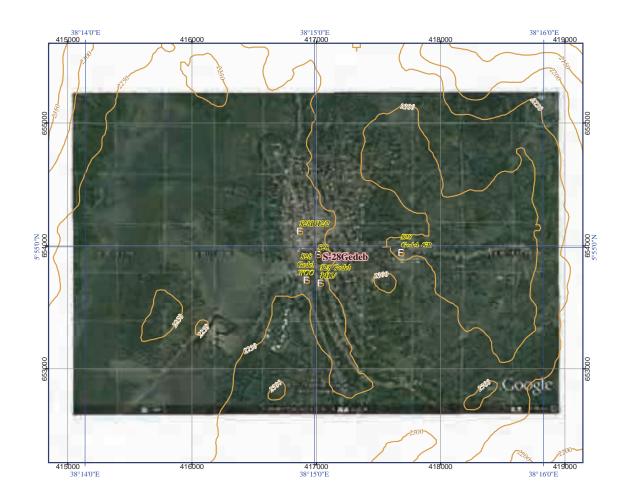
S-28 Gedeb

Name of Small town Name of Woreda Name of Zone				23 / 52
	•	Gedeb		S- 28
Name of Zone		Gedeb		SW- 21
	:	Gedeo	-	SZ- 05
	Profile items		Prof	ïle
l Population				
Town Woreda	male / female / total	by SNNPR	5,160	4,861 10,021
percentage of Town in Wo	male / female / total reda	by Census 2007	73,480	73,252 146,732 6.8%
2 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	416921 6	53784 2,251
3 Town Status			Woreda Capital	
Water Source			N. 1140	
04-01 Water source 04-02 Well spec.		Type, No.	Well*2nos. see below memo	
04-02 Well spec.		Depth., Casing Dia., S.W.L Pump, Gravity	Pump	
04-04 Pump Spec.		Type, Yield	Motorized pump	
04-05 Power source		Type, Kva	Commercial Elec. & Sta	nd by Generator
04-06 Durartion of water draw		daily hours, time	No.1 06:00~14:00, 16:00	0~18:00 (10hrs./day)
04-07 Water quality		Iron, Fluorideetc.	Good	
04-08 Other technical specimen			nil.	
5 Existing Water Supply Facilities				
05-01 Established year		(Gregorian calendar)	2010	
05-02 Financial of implementation	n	Donor's name	LIG, World Bank	
05-03 Name of implementation			Gedeb water project	
05-04 Intake Type			Well	
05-05 Intake No.			2	
05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	GIP	
05-07 Power to convey 05-08 Water treatment		Pressure, Gravity	Pressure nil.	
05-09 Water treatment capacity		Disinfection, Ironetc. m3/day	nil.	
05-10 Water reserver type		Туре	GR, ER (not use)	
05-11 Water reserver No.		no.	GR*1no., ER*1no.(not u	use)
05-12 Water reserver Capacity		m3	GR100m3, ER4m3 (not	
05-13 Transmission Type (Boost	er pump Stn. ~ Reservoir)	Pipe material, length	-	
05-14 Power to transmit		Pressure, Gravity	-	
05-15 Distribution Type		Pipe material, length	GIP	
05-16 Power to distribute 05-17 Structure Type of water po	int (Dublic Foundt DE)	Pressure, Gravity RC, Masonry, Pipeetc	Gravity	
05-17 Structure Type of water point (Pu		no.	12	
05-19 Number of faucet at a water		no.	4	
05-20 Average of daily water cor		m3/day	1m3/day	
05-21 Number of House Connect			56	(Avr. 6psn./house)
05-22 Average of daily water consu		m3/day	0.083m3/day	(14Lpcd.)
05-23 Number of Business Cone			Not grasped	
05-24 Type of Business Connecti	on (BC) Factory, School	ol, Gov. office, Hospitaletc		Ctr., School
05-25 Average of daily water consum		m3/day	0.377m3/day	
05-26 Other technical specimen			nil.	
6 Operation and Maintenace				
06-01 Organization's name			Water committee	
06.02 Type of organization		gional, Zone, Enterpriceetc	Committee	
06-02 Type of organization			3	
06-03 Number of thechnical staff			Pump operation	
06-03 Number of thechnical staff 06-04 Principal works of technical			Water motor count Bill	
06-03 Number of the chnical staff 06-04 Principal works of technical 06-05 Number of the financial staff			Water meter count, Bill	
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financia	ıl staff	Point House Connection etc	Water Point / House Co.	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financia 06-07 Categories of water tariff	ıl staff	Point, House Connectionetc	. Water Point / House Con	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate	ul staff W.P	Point, House Connectionetc	. Water Point / House Cor 0.35 bir/25L	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financia 06-07 Categories of water tariff	ul staff W.P			nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet	ul staff W.P	Birr/L, 20L	0.35 bir/25L 8.0 birr/m3 nil.	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial staff 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income be	ul staff W.P  )  by water tariff	Birr/L, 20L Birr/m3 Birr/m3 Birr/month	0.35 bir/25L 8.0 birr/m3 nil. 2,000bir/month	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income t 06-10 Procurement of spare parts	ul staff W.P  by water tariff at Town	Birr/L, 20L Birr/m3 Birr/m3 Birr/month a, Zonal Cap. Reg. Capetc	0.35 bir/25L 8.0 birr/m3 nil. 2,000bir/month Dila, Awasa	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income to 06-10 Procurement of spare parts 06-11 Principal spare parts	oy water tariff at Town Oil	Birr/L, 20L Birr/m3 Birr/m3 Birr/month  , Zonal Cap. Reg. Cap etc l filter, Fuel filter, Pipes etc	0.35 bir/25L 8.0 birr/m3 nil. 2,000bir/month Dila, Awasa Pipe and Fittings	nnnection
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income to 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious	oy water tariff at Town Oil repair by Regional	Birr/L, 20L Birr/m3 Birr/m3 Birr/month a, Zonal Cap. Reg. Capetc	0.35 bir/25L 8.0 birr/m3 nil. 2,000bir/month Dila, Awasa Pipe and Fittings Zone, Region	
06-03 Number of thechnical staff 06-04 Principal works of technical 06-05 Number of the financial sta 06-06 Principal works of financial 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income to 06-10 Procurement of spare parts 06-11 Principal spare parts	oy water tariff  at Town Oil repair by Regional oth 5-10 years	Birr/L, 20L Birr/m3 Birr/m3 Birr/month  , Zonal Cap. Reg. Cap etc l filter, Fuel filter, Pipes etc	0.35 bir/25L 8.0 birr/m3 nil. 2,000bir/month Dila, Awasa Pipe and Fittings Zone, Region Burned pump motor by	

S-28 Gedeb

			_
07	Problem of actual town water supply		
	07-01 Technical	X7 . 1	
	Water source Quantity, Qualityetc.  Water supply facility Decrepit, leakage, design failureetc	Water shortage	
	07-02 Finalcial	Silitage distribution pipe lines	*****
	Management	No answer	!
	Rate of water tarrif collection	No answer	•
	Personnel expenses	No answer	!
	Shortage of budget to execute operation & maintenace	No answer	!
	07-03 Other incidential, Special specimen		****
	Increase in population to consume water coming from other towns, villagesetc		
	Change in industry increase factory, Tradingetc.		
	Human conflict Ethnic, Administrativeetc		
	07-04 Other technical specimen	No answer	
00			_
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)  Town is top of ridge gently.		_
	Town is top of ridge gently.		
09	Necessary Institution (Facility, Material)		-
	New water source (Well), Conveyance and Distribution pipe lines, Groud Reservoir		
	Refer to Chapter 4 "Table 4.7"		
10	Current Water Coverage (%) (by water consumption at faucets)	8%	!
		,021 population = 8%	
	Current Water Coverage (%) (by data of water source product))	89%	
		21population=89%	_
11	Water Potential (A / B / C / D / E)	С	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	ot Approached A / C	_
12	Town along the Asphalt road $A=Road Width > 6m/B = 33-6m/C = 1-3m/D = <1m$	ot Approached A / C	_
	Access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of access road from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific from Awasa is a specific f	ssibility"	
13	Manpower Capability of Water Supply Management by Water Office point)	10	-
13	Water committee's staff has not any of document, DWGS for existing water supply facility.		****
			FORM
14	Dgree of urgency (A / B / C / D / E)		_
	Refer to Chapter 5 & 7		
			****
15	New Water Supply Plan		
	Refer to the Chapter 6		
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	nnology. The small town is on the gentle ridge,	
1.0	however, construction work is not difficult.		_
10	Other Donors, NGO's  International Resque Committee (IRC)		
	international residue committee (IRC)		
17	Main Ethnic Group	Gedeo	-
18	Health conditions		Τ
	-1 Medical facilities in Town	Health Center, Private clinic, Drug store	
	-2 Nearest other facilities from Town km	74	
	-3 Main patients of water born diseases persons / year	Typhoid 4,557	
		Diarrhea 900	_
19	Main economic activities	Trade, Farming	
20	Particular comments :		_
20	i aruvurai voihiliteittä .		
			*****
21	Remarks:		_
Men	no (Town sketchetc.):		
	04-02 Well spec		
	Well No.1; Establish on ??? / Depth GL-82m / Casing dia. ??" / SWL GL-???m / 1.67L		
ļ	Well No.2; Establish on ??? / Depth GL-72m / Casing dia. ??" / SWL GL-???m / 4.5L/s		!
	* Actual water discharge of well No.2 may be 0.5~1.0L/sec. at the Inlet of GR by visual	п ооѕегуапоп.	
<del></del>	-		
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		-	
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	-	-	_

S-28 Gedeb



S-30 Tabela (Humbo)

	SNNPR				24 / 52
	Name of small town	:	Tabela (Hum	bo)	S- 30
	Name of Woreda		Humbo		W- 23
	Name of Zone	:	Wolayita	S	Z- 06
		Profile items		Profile	1
01	Population				
	Town	male / female / total	by SNNPR	3,283 2,9	963 6,246
	Woreda	male / female / total	by Census 2007	62,967 62,3	
02	percentage of Town in Work Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	364091 741	5.0% 131 1,628
_	Town Status	O I W (Adilidali)	Lasting / Norting / Ait.	Woreda Capital	131 1,028
	Water Source				
	04-01 Water source		Type, No.	Spring*1no.	
	04-02 Well spec.	Dep	th., Casing Dia., S.W.L, Yield		!
	04-03 Method of water draw 04-04 Pump Spec.	***************************************	Pump, Gravity Type, Yield	Gravity nil.	***************************************
	04-05 Power source for motorized	nump	Type, Kva	nil.	
	04-06 Durartion of water draw (Op	A	daily hours, time	12~15hrs./day (see below)	memo)
	04-07 Water quality		Iron, Fluorideetc.	Good	
	04-08 Other technical specimen			nil.	
05	Existing Water Supply Facilities				
US	05-01 Established year		(Gregorian calendar)	1964	
	05-02 Financial of implementation		Donor's name	SNNPR	
	05-03 Name of implementation (Pr	oject name)		Tabela (Humbo) water proj	ect
	05-04 Intake Type			Spring	
	05-05 Intake No.	D '\	D:	1 CID 4" 2.500	
	05-06 Conveyance Type (Water so 05-07 Power to convey	urce ~ Reservoir)	Pipe material, length Pressure, Gravity	GIP, 4", 3,500m Gravity	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Type	GR	
	05-11 Water reserver No.		no.	GR*4nos.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster	numn Stn ~ Reservoir)	m3 Pipe material, length	10m3*4nos. nil.	
	05-14 Power to transmit	pump sur Reservoir)	Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	GIP 6,500m (see below me	mo)
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water poir		RC, Masonry, Pipeetc.	Mansory	
	05-18 Number of water point (Pub 05-19 Number of faucet at a water		no.	2	
	05-20 Average of daily water cons			3.6m3/day	
	05-21 Number of House Connection	on (HC)		400	(Avr. 6psn./house)
	05-22 Average of daily water consum		m3/day	0.05m3/day	
	05-23 Number of Business Conect		1.C. CC H :: 1	27	
	05-24 Type of Business Connectio 05-25 Average of daily water consump		ol, Gov. office, Hospitaletc. m3/day	see below memo 0.8~1.7m3/day	
	05-26 Other technical specimen	tion of Business Connection (BC)	III3/day	nil.	
					***************************************
06	Operation and Maintenace				
i	06-01 Organization's name		raional Zona Entremeira	Town water supply service	office
	06-02 Type of organization 06-03 Number of thechnical staff	Re	egional, Zone, Enterpriceetc	Town 2	
	06-04 Principal works of technical	staff		Operation (Valve Control),	Plumbing
	06-05 Number of the financial staf			1	<u> </u>
	06-06 Principal works of financial			Bill	
	06-07 Categories of water tariff	W.1	Point, House Connectionetc.	5 categorized (see below m	emo)
	06-08 Water tariff rate Water point (Public faucet)		Birr/L, 20L	3.0birr/household/month	
	House connection		Birr/m3	6.0 birr/household/month fi	rom year 2010
	Business connection		Birr/m3	see below memo	, ,
	06-09 Average monthly income by		Birr/month	3,834birr/month	
	06-10 Procurement of spare parts			Sodo	
	06-11 Principal spare parts 06-12 Method in case of serious re	0i	l filter, Fuel filter, Pipesetc office, Private companyetc	Water meter, Pipe fittings	
	06-12 Method in case of serious re 06-13 Principal serious repair with		office, Private companyetc	nil.	
	06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.	Town water office	
	06-15 Other technical specimen			nil.	
l					

S-30 Tabela (Humbo)

	) / 1.5 A				
1.	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.			
	Water supply facility	Decrepit, leakage, design failureetc			
	07-02 Finalcial				
ſ	Management			ower (Office sta	
	Rate of water tarrif collection		on trial since 20	010	
Ī	Personnel expenses		System of water	r charge has been managed	
ľ	Shortage of budget to execute operation &	maintenace	ditto		
ļ,	07-03 Other incidential, Special specimen				
F	Increase in population to consume water	coming from other towns, villagesetc	Back order of I	House connection	+
r	Change in industry	increase factory, Tradingetc			
ŀ	Human conflict	Ethnic, Administrativeetc			
b	07-04 Other specimen	Lume, rammstativeetc	nil.		
ř	07-04 Offici specifici		11111.		
08	Geographical condition (Slope on moun	ntaion, bottom of valley, Top of ridgeetc.	)		+
	Town is slope of mountain and flat area.	maion, bottom of valley, 1 op of flugeetc.	)		
+	Town is stope of mountain and flat area.				
-					
	Necessary Institution (Facility, Material)				ļ
ļ	Refer to Chapter 4 "Table 4.7"				
	Current Water Coverage (%) (by water consumpt			36%	
	(3.6m3*7PF+0.05m3*400HC)=45.2m3/day 45.2		/ 6246population	n = 36%	
	Current Water Coverage (%) (by data of water so			83%	
_ [	((1.2L)*3600sec.*24hrs)=103680L/day 103680/	20Lcd=5184persos 5184persons/6246po	pulation=83%		
	Water Potential (A / B / C / D / E)			В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=B	Base Course/C=Sub Grade/D=Only Dry Season/E=	Not Approached	A / A	
7	Town along the Asphalt road A=Road Widt	$h > 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$			
ľ	Access road is Asphalt road 20km from Sodo. * I	Refer to Chapter 5 "Table 5-7: Categories of	accessibility"		
	Manpower Capability of Water Supply Manageme			11	
	Water office staff has not any of document, DWG				
-	water office starr has not any of document, Dwo	is for existing water suppry facility.			
1.4	Df (A / B / C / D / E)				+
	Dgree of urgency (A / B / C / D / E)				
ļ.	Refer to Chapter 5 & 7				
1.5	N. W. C. I. N.				-
15	New Water Supply Plan				
,	The facility can be designed in an Ethiopian stand	ard, whichis not required more advanced ted	chnology. The sr	nall town is on the generally fla	aŧ
-	terrains, construction work is not difficult.	•	0,		
	<u> </u>				
16					
-	Other Donors, NGO's				
	Other Donors, NGO's Wold Vision (intent for development of rur	al area)			
	Wold Vision (intent for development of rur	al area)			
17		al area)	Welayita		
17	Wold Vision (intent for development of rur	al area)	Welayita		
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions	al area)			
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town			Private clinic, Drug store	
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions	al area)		Private clinic, Drug store	
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town		Health Center,	Private clinic, Drug store 4,684	
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Health Center,		
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Health Center, 22 Mararia	4,684	
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Health Center, 22 Mararia Dysentery Typhoid	4,684 937	
ľ	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Health Center, 22 Mararia Dysentery Typhoid Diarrhea	4,684 937 625 312	
18	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	km	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others	4,684 937 625 312 312	
18	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Health Center, 22 Mararia Dysentery Typhoid Diarrhea	4,684 937 625 312 312	
18	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities	km	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others	4,684 937 625 312 312	
18 19 20	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312	
18   19   20	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  System of water fee charge has been commenced	km persons / year  since 2010. This system to be firmly establis	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 t, Waving	!
19 20	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  System of water fee charge has been commenced Private connection (House & Business Connection)	km persons / year  since 2010. This system to be firmly establis h) has been contracted with the Format of SI	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 t, Waving	1
19	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda	km persons / year  since 2010. This system to be firmly establis h) has been contracted with the Format of SI	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 t, Waving	1
19 20 21	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks:	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	1
19 20 21	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	1
19 20 21	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks:	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	!
19 20 21	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	1
19 20 21	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	!
19 20 21	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	1
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of St Office. Howevwer,TWO to be independed	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	!
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of SI Office. Howevwer,TWO to be independed e a major junction for Awasa, Sod and Arba-	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 y, Waving	!
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.  o (Town sketchetc.):  04-06 Durartion of water draw (Operation hours)  Area 1-1 05:00~09:00 (BC)  2-1 05:00~11:	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of Sl Office. Howevwer,TWO to be independed e a major junction for Awasa, Sod and Arba-	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 t, Waving  pply service) bove water charge sysytem. e, beneficiary effect of new	!
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.  oo (Town sketchetc.):  04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11: 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of SI Office. Howevwer,TWO to be independed e a major junction for Awasa, Sod and Arba-	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 t, Waving  pply service) bove water charge sysytem.  re, beneficiary effect of new  PF=W. Point HC=House Connection	1
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.  To (Town sketchetc.):  04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11: 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16: 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of SI Office. Howevwer,TWO to be independed e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a ma	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 t, Waving  pply service) bove water charge sysytem. e, beneficiary effect of new	!
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.  oo (Town sketchetc.):  04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11: 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:	km persons / year  since 2010. This system to be firmly establis n) has been contracted with the Format of SI Office. Howevwer,TWO to be independed e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a major junction for Awasa, Sod and Arba- e a ma	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 t, Waving  pply service) bove water charge sysytem.  re, beneficiary effect of new  PF=W. Point HC=House Connection	!
18 19 20 20 Mem	Wold Vision (intent for development of rur  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments: System of water fee charge has been commenced Private connection (House & Business Connection Salary of TWO's staff are still paied from Woreda Remarks: This town population has been growth due to have water supply facility is high.  To (Town sketchetc.):  04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11: 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16: 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:	km persons / year  since 2010. This system to be firmly establish) has been contracted with the Format of SI Office. Howevwer,TWO to be independed as a major junction for Awasa, Sod and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and Arbacteria and	Health Center, 22 Mararia Dysentery Typhoid Diarrhea others Trade, Farming	4,684 937 625 312 312 312 3, Waving  pply service) bove water charge sysytem.  e, beneficiary effect of new  PF=W. Point HC=House Connection BC=Business connection	!

05-15 Distribution Type GIP 3"=1,000m GIP 2"=3,000m GIP 1*1/2"=1,000m GIP 1"=1,000m GIP 3/4"=500m

Total = 6,500m

S-30 Tabela (Humbo)

05-24 Type of Business Connection (BC) Chrch*6 with own ER10m3*1

School*3 with own ER10m3*1

Health center*1 with own ER5m3*1 Hotel*7

Gov. institution*10 Total 27 BC

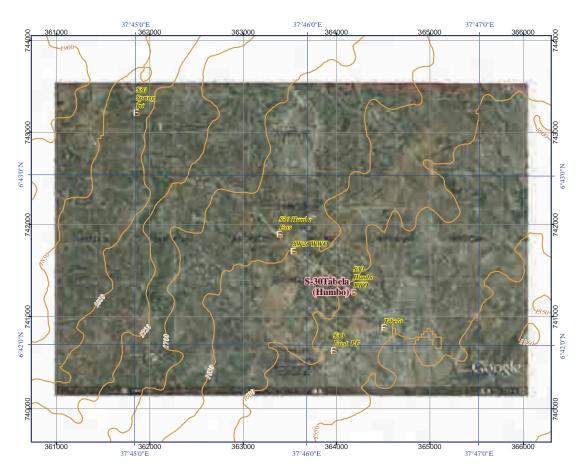
06-07 & 08 Categories of water tariff & Water tariff rate

1- Water point (PF) 3birr/month 2- House connection (HC) 6birr/month

4- Tea house, shop (BC) 12birr/month

3- Hotel (BC) 25birr/month 5- Gov., Chrch ...etc. (BC) 30~50birr/month

S-30 Tabela (Humbo)



S-32 Dimtu

	SNNPR			25 / 52
	Name of small town :	Dimtu		S- 32
	Name of Woreda :	Deguna Fani	go S	SW- 24
	Name of Zone :	Wolayita		SZ- 06
	Profile items		Prof	ile !
01	Population			-
	Town male / female / tota	l by SNNPR	811	891 1,702
	Woreda male / female / tota	l by Census 2007	47,486 48	3,986 96,472
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt	403721 76	1.8% 6084 1,521
_	Town Status	Easting / Northig / Alt.	Town Administration	, , , , , , , , , , , , , , , , , , , ,
	Water Source			
	04-01 Water source	Type, No.	Spring*1no.	
	04-02 Well spec.	Depth., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw	Pump, Gravity	Gravity (On-spot) nil.	
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	nil.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	24hrs.	
	04-07 Water quality	Iron, Fluorideetc.	Not grasped	
	04-08 Other technical specimen		Pomp was broken. (N	Not function)
0.5	Err W. G. LE T			
05	Existing Water Supply Facilities 05-01 Established year	(Gregorian calendar)	2010	
	05-01 Established year 05-02 Financial of implementation	Donor's name	Ethiopian Red Cross	
	05-03 Name of implementation (Project name)		Town water supply	
	05-04 Intake Type		Spring	
	05-05 Intake No.		1	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil. (On-spot)	
	05-07 Power to convey	Pressure, Gravity	Gravity	
	05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc.	nil.	
	05-10 Water reserver type	Type	nil.	
	05-11 Water reserver No.	no.	nil.	
	05-12 Water reserver Capacity	m3	nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Reserv		nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type 05-16 Power to distribute	Pipe material, length Pressure, Gravity	nil. nil.	
	05-17 Structure Type of water point (Public Faucet, PF			
	05-17 Structure Type of water point (Fublic Faucet, PF)	no.	nil.	
	05-19 Number of faucet at a water point (Public Faucet	t, PF) no.	nil.	
	05-20 Average of daily water consumption at a water p	oint (PF) m3/day	nil.	
	05-21 Number of House Connection (HC)		nil.	
	05-22 Average of daily water consumption of House Connec 05-23 Number of Business Conection (BC)	etion(HC) m3/day	nil.	
		ory, School, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Conne		nil.	
	05-26 Other technical specimen	. ,		
	<u> </u>			
06	Operation and Maintenace		D'L	
	06-01 Organization's name	Decienal Zone Entermin	Bilate water system	
	06-02 Type of organization 06-03 Number of thechnical staff	Regional, Zone, Enterpriceetc.	municipality nil.	
	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		nil.	
	06-06 Principal works of financial staff		nil.	
	06-07 Categories of water tariff	W.Point, House Connectionetc.	nil.	
	06-08 Water tariff rate	D:7 201	:1	
	Water point (Public faucet)	Birr/L, 20L	nil. nil.	
1	House connection  Business connection	Birr/m3	nil.	
1	06-09 Average monthly income by water tariff	Birr/month	nil.	
	06-10 Procurement of spare parts	at Town, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair by	Regional office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		nil.	
1	06-14 Fund for above 6-09, 6-10	by Organization, Gov., Donorsetc.	nıl.	
1	06-15 Other technical specimen			
1				

S-32 Dimtu

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc	. Water shorta	ige	
	Water supply facility Decrepit, leakage, design failure			·····
	07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	Not grasped		
	Shortage of budget to execute operation & maintenace	Not grasped		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villages			
	Change in industry increase factory, Trading		. 1.0	
	Human conflict Ethnic, Administrative	etc Often (wate	r rignt)	!
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridge.	etc.)		-
00	Town is on flat area (bottom of rift valley)			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
			T	
10	Current Water Coverage (%) (by water consumption at faucets)		?? %	
	(??m3*1PF+0m3*0HC+0m3*0BC)=??m3/day ??m3/20Lpcd.=??persons ??persons/1	,/02population=??	·	_
	Current Water Coverage (%) (by data of water source product))	710/	51%	
1.1	(((0.2L)*3600sec.*24hrs)=L/day 17280/20Lcd=864persos 864persons/1702population Water Potential (A / B / C / D / E)	1=31%	В	
11	water Potential (A/B/C/D/E)		В	_
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/	/E=Not Approached	B / B	-
12	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1		B / B	<del></del>
	Access road is Base course 42km from Sodo * Refer to Chapter 5 "Table 5-7: Categorie			
13	Manpower Capability of Water Supply Management by Water Office point)		2	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7		·	
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, however, it may be required high t	technology water to	reatment facility to remo	0.410
	Fluoride. The small town is on the generally flat terrains, construction work is not difficu	ılt.	-	JVE
16	Other Donors, NGO's			
10	Other Donors, 1100's			ove
				ove
				ove
17	Main Ethnic Group	Walavita, A	mhara	ove
17	Main Ethnic Group	Walayita, A	mhara	ove
	Main Ethnic Group  Health conditions	Walayita, A	mhara	ove
			mhara er, Private clinic, Drug s	
	Health conditions		er, Private clinic, Drug	
	Health conditions -1 Medical facilities in Town	Health Cento 64 Mararia	er, Private clinic, Drug s	
	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 64 Mararia Typhoid	er, Private clinic, Drug s 5,000 850	
18	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year	Health Cente 64 Mararia Typhoid Dysentery	er, Private clinic, Drug s 5,000 850 400	
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 64 Mararia Typhoid Dysentery	er, Private clinic, Drug s 5,000 850	
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Health Cente 64 Mararia Typhoid Dysentery	er, Private clinic, Drug s 5,000 850 400	
18	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Health Cente 64 Mararia Typhoid Dysentery	er, Private clinic, Drug s 5,000 850 400	store
18	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Water right to be problem due to ethnic conflict.	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
18	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: Water right to be problem due to ethnic conflict.  Town population is less than 2,000 persons in accordance with list of the candidate small	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
18 19 20	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: Water right to be problem due to ethnic conflict.  Town population is less than 2,000 persons in accordance with list of the candidate small quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop g	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
18 19 20	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: Water right to be problem due to ethnic conflict.  Town population is less than 2,000 persons in accordance with list of the candidate small	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
18 19 20	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: Water right to be problem due to ethnic conflict.  Town population is less than 2,000 persons in accordance with list of the candidate small quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop g	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
18 19 20	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: Water right to be problem due to ethnic conflict.  Town population is less than 2,000 persons in accordance with list of the candidate small quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop g	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
18 19 20	Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: Water right to be problem due to ethnic conflict.  Town population is less than 2,000 persons in accordance with list of the candidate small quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop g	Health Cente 64 Mararia Typhoid Dysentery Trade, Farm	5,000 850 400 ing, Livestock	store
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S-32 Dimtu



S-34 Birbir

	NNPR				26 / 9		
Name of	small town :		Birbir		S- 34	4	
Name of	Woreda :		Mirab Abay	а	SW- 20	6	
Name of	Zone :		Gamo Gofa	ì	SZ- 07	7	
	P	rofile items		l j	Profile		!
1 Population							Ė
Town	ma	le / female / total	by SNNPR	2,928	2,903	5,831	
Wore	da ma	le / female / total	by Census 2007	37,395	37,506	74,901	
	ntage of Town in Woreda					7.8%	
2 Town Coord		M (Adindan)	Easting / Northig / Alt.	363450	695658	1,239	
3 Town Status				Woreda Capital			$\vdash$
Water Source				Well*2nos.			ļ
04-01 Water			Type, No. Denth., Casing Dia., S.W.L	See below memo			}
04-02 Well	or of water draw		Pump, Gravity	Pump	)		
04-03 Meth			Type, Yield	Motorized pump	<u></u>		-
04-04 Pamp			Type, Kva	Commercial Elec. , Star		r Pump No.1	ļ
***************************************	tion of water draw		daily hours, time	06:00~11:00, 16			
04-07 Water		***************************************	Iron, Fluorideetc.	Good			
04-08 Other	technical specimen						
	ter Supply Facilities						ļ
05-01 Estab			(Gregorian calendar)	1991 / 2005			ļ
	cial of implementation		Donor's name	World vision	. ,		<u> </u>
	of implementation			Birbir water proj	ject		-
05-04 Intake				Well 2			ļ
05-05 Intake	e No. eyance Type (Water source	Pasarzoir)	Pipe material, length	See below memo			<b>}</b>
05-00 Conv		~ Keservoir)	Pressure, Gravity	Pressure			-
05-07 Towe			Disinfection, Ironetc.	nil.			
	treatment capacity		m3/day	nil.			
	reserver type		Type	GR			
05-11 Water	reserver No.		no.	GR*2nos.			
	reserver Capacity		m3	GR*75m3, 50m3	3 ea.		
<u> </u>	mission Type (Booster pun	np Stn. ~ Reservoir)	Pipe material, length	nil.			ļ
	r to transmit		Pressure, Gravity	nil.			ļ
05-15 Distri			Pipe material, length	See below memo	)		ļ
	r to distribute	LI' E ( DE)	Pressure, Gravity	Gravity			H
	ure Type of water point (Poper of water point (Public F		RC, Masonry, Pipeetc.	Mansonry 10			}
	per of faucet at a water point		no.	4 FC*6PF, 2FC*	₹4 <b>P</b> F		
<u></u>	ge of daily water consump		m3/day	2.5m3/day	711		
	per of House Connection (F		ino, any	691			Г
	ge of daily water consumption		m3/day	0.278m3/day			
05-23 Numb	er of Business Conection (	BC)		76			<u> </u>
	of Business Connection (B		ol, Gov. office, Hospitaletc	Gov*16, NGO*	10, Others*5	0	
	ge of daily water consumption of	of Business Connection (BC)	m3/day	0.66m3/day			<u> </u>
05-26 Other	technical specimen						L
	1361						$\vdash$
	nd Maintenace			T			
	nization's name of organization	Do	gional, Zone, Enterpriceetc	Town water office	ce		}
	or organization oer of thechnical staff	Re	gionai, Zone, Enterpriceetc	6			
	pal works of technical staff	F		Pump operation,	Plumbing		
	per of the financial staff			5	1 Iumom _į		<b> </b>
	pal works of financial staff			Water meter read	d. Bill		
	ories of water tariff		oint, House Connectionetc.	Water point, Ho		on	
06-08 Water							
Water	point (Public faucet)		Birr/L, 20L	0.2 birr/20L			
	connection		Birr/m3	See below memo	)		ļ
	ess connection		Birr/m3	ditto			L
06-09 Avera	ge monthly income by wat		Birr/month	14,973birr/mont	h		ļ
	rement of spare parts		, Zonal Cap. Reg. Capetc.		0.5.		ļ
	pal spare parts		l filter, Fuel filter, Pipesetc		ne&fitting		ļ
	od in case of serious repair		office, Private companyetc	Zone, Region Pump burned			-
***************************************	and produced as 100 ft 40						
06-13 Princ	pal serious repair with 5-10		mization Gov Dances				
06-13 Princ 06-14 Fund	pal serious repair with 5-10 for above 6-09, 6-10 technical specimen		anization, Gov., Donorsetc.				

S-34 Birbir

Problem of actual town water supply			
07-01 Technical			
Water source Quantity, Qualityetc.	Well source	yield	<u> </u>
		·	
07-02 Finalcial			
Management	Measure of t	transportaion, PC	1
Rate of water tarrif collection	Not grasped		
	5		
	Not grasped		
07 01 Otto Centre a specifica		***************************************	
Geographical condition (Slope on mountaion, bottom of valley. Top of ridge, etc.)	)		$\dashv$
	<u></u>		
Genite stope on mountain			-
Nacassary Institution (Eacility Material)			-
Refer to Chapter 4 Table 4.7			
Current Water Coverage (%) (by water consumption at favore)		2520/-	+
	4 600namana		-
	+,020persons	·	
	n=990/-	. 170	-
	11-1:70		+
water potential (A / B / C / D / E)			$\dashv$
Agagesibility (A / D / C / D / E) A=Asphalt/D=Daga Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Crosts/D=Outs Day Courses/C=Cub Courses/C=Cub Courses/C=Cub C-Cub C	Approached	D / D	+
	. Арргоаспеа	D / B	
		10	+
Manpower Capability of Water Supply Management by Water Office point)		18	-
		,	_
			_
Refer to Chapter 5 & 7			
New Water Supply Plan			
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	e small town is on the ge	ntle
	hnology. The	e small town is on the ge	ntle
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's		e small town is on the ge	ntle
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.	hnology. The	e small town is on the ge	ntle
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's		e small town is on the ge	ntle
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group	Gamo	e small town is on the ge	
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions	Gamo	er, Private clinic, Drug s	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Gamo  Health Cente	er, Private clinic, Drug s	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Gamo Health Center 42	er, Private clinic, Drug s	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Gamo  Health Cente 42  Mararia Dysentery	er, Private clinic, Drug s	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Gamo  Health Cente 42  Mararia  Dysentery  Typhoid	er, Private clinic, Drug s 5,484 749	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Gamo  Health Cente 42  Mararia Dysentery Typhoid Diarrhea	er, Private clinic, Drug s 5,484 749 448 90	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Gamo  Health Cente 42  Mararia  Dysentery  Typhoid	er, Private clinic, Drug s 5,484 749 448 90	tore
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The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water suppl  Remarks:  To (Town sketchetc.):  Other Donors, NGO's  Main Ethnic Group  Mmain Ethnic Group  Mmain economic activities in Town  Mmain economic activities  Particular comments:  The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water suppl  Remarks:  Other Donors, NGO's	Gamo  Health Cente 42  Mararia Dysentery Typhoid Diarrhea Trade, Lives  y.	er, Private clinic, Drug s 5,484 749 448 90 stock	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water suppled to (Town sketchetc.):  10 (Town sketchetc.):  04-02 Well spec.  Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standle Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec.	Gamo  Health Cente 42  Mararia Dysentery Typhoid Diarrhea Trade, Lives  y.	er, Private clinic, Drug s 5,484 749 448 90 stock	tore
The facility can be designed in an Ethiopian standard, whichis not required more advanced tec flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water suppl  Remarks:  To (Town sketchetc.):  Other Donors, NGO's  Main Ethnic Group  Mmain Ethnic Group  Mmain economic activities in Town  Mmain economic activities  Particular comments:  The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water suppl  Remarks:  Other Donors, NGO's	Gamo  Health Cente 42  Mararia Dysentery Typhoid Diarrhea Trade, Lives  y.	er, Private clinic, Drug s 5,484 749 448 90 stock	tore
	Water source Quantity, Qualityetc.  Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial  Management Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenace 07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc Change in industry increase factory, Tradingetc Change in industry increase factory, Tradingetc 07-04 Other technical specimen  Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc. Gentle slope on mountain  Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"  Current Water Coverage (%) (by water consumption at faucets) (2.5m3*10PF+0.278m3*691HC+0.66m3*76BC)=293.8m3/day 293800'20Lpcd.= 14,690 persons 1 Current Water Coverage (%) (by data of water source product)) ((2.1L+?YL)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/5831populatio Water Potential (A/B/C/D/E)	Water source Water supply facility Decrepit, leakage, design failureetc Not grasped 07-02 Finalcial  Management Measure of Not grasped Personnel expenses Not grasped Personnel expenses Not grasped O7-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc Not grasped Change in industry increase factory, Tradingetc Not grasped Human conflict Ethnic, Administrativeetc nil.  Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)  Gentle slope on mountain  Necessary Institution (Facility, Material)  Refer to Chapter 4 "Table 4.7"  Current Water Coverage (%) (by water consumption at faucets)  Current Water Coverage (%) (by data of water source product))  ((2.1L+??1)*3600sec.*??ns)=???L/day ???/20Lcd=???persos ???persons/5831population=??%  Water Potential (A / B / C / D / E) A=Asphalt/B=Base Course(C=Sub Grade/D=Only Dry Season/E=Not Approached A=Road Width > 6m /B= >3-6m / C= 1-3m / D= <1m Unde construction * Refer to Chapter 5 "Table 5-7: Categories of accessibility"  Manpower Capability of Water Supply Management by Water Office point)	Water source Quantity, Qualityetc. Well source yield Water supply facility Decrepit, leakage, design failureetc Not grasped  7-02 Finalcial Management Measure of transportaion, PC  Rate of water tarrif collection Not grasped Not grasped Shortage of budget to execute operation & maintenace Not grasped  7-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villagesetc. Not grasped  Change in industry increase factory, Tradingetc. Not grasped  Human conflict Ethnic, Administrativeetc  70-04 Other technical specimen  Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)  Gentle slope on mountain  Necessary Institution (Facility, Material)  Refer to Chapter 4 "Table 4.7"  Current Water Coverage (%) (by water consumption at faucets)  (2.5m3*10PF+0.278m3*691HC+0.66m3*76BC)=293.8m3/day 29380/20Lpcd.=14,690 persons 14,690persons /5.831 population = 252%  Current Water Coverage (%) (by data of water source product))  (2.1L+7/2L)*3600sec.*?7hrs)=???Z/day ???/20Lcd=???persos ???persons/5831population=??%  Water Potential (A / B / C / D / E)  A=Asphalu/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not Approached B / B  A=Road Width > 6m / B= >3-6m / C= 1-3m / D= <1m  Unde construction * Refer to Chapter 5 "Table 5-7: Categories of accessibility"  Manpower Capability of Water Supply Management by Water Office point)  18

ND-2*1/2"=500m ND-1*1/2"=650m

ND-2"=200m ND-1*1/4"=500m

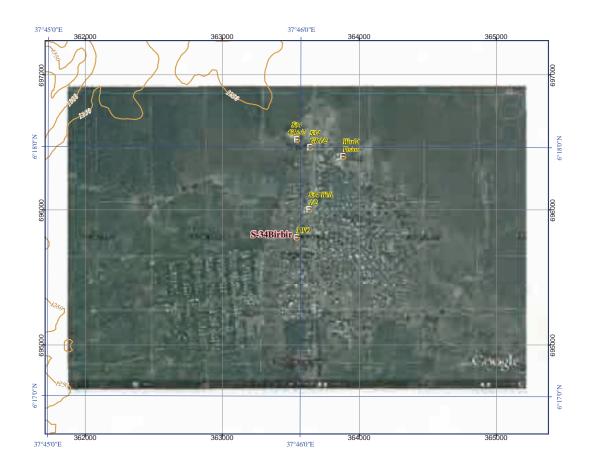
06-08 Water tariff rate (House & Buisiness Connection)

Total=1,850m

S-34 Birbir

0~10 m3 =2.00birr/m3 11~30 m3 =3.00birr/m3 31m3 ~ =4.00birr/m3

S-34 Birbir



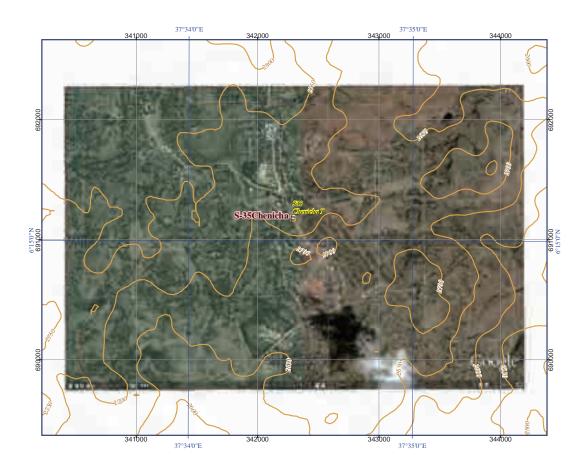
S-35 Chenicha

	SNNPR			27 / 52	
	Name of small town	:	Chenicha	S- 35	
	Name of Woreda		Chencha	SW- 27	
	Name of Zone	•	Gamo Gofa		
		Profile items		Profile	!
01	Population	11011101101110		1101110	+ •
"-	Town	male / female / total	by SNNPR	5,173 5,050 10,22	3
	Woreda	male / female / total	by Census 2007	51,307 60,373 111,68	0
	percentage of Town in Word		T	9.29	_
_	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	342198 691040 2,730 Woreda Capital	U
_	Water Source			Woreda Capitai	+
0.	04-01 Water source		Type, No.	Spring*1no., Well*1no., New well*1	10
	04-02 Well spec.		Depth., Casing Dia., S.W.L	See below memo	
	04-03 Methor of water draw		Pump, Gravity	Gravity, Pump	
	04-04 Pump Spec.		Type, Yield	Motorized pump	
	04-05 Power source 04-06 Durartion of water draw	***************************************	Type, Kva daily hours, time	Commercial Elec. 08:00-12:00, 15:00-19:00 (8hrs/day)	
	04-07 Water quality		Iron, Fluorideetc.	Good	
	04-08 Other technical specimen		11011, 1 1401140 111010		
05	Existing Water Supply Facilities			1000 0	
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar)	1988 Spring / 1994 Well-1 / 2010 Well-2	
	05-02 Financial of implementation		Donor's name	Catholic church (Spring), World vision (Well Dako Dalo water project	)
	05-04 Intake Type			Spring, Well	
	05-05 Intake No.			Spring *1, Well * 2	
	05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	GIP 3" 1,500m, PVC 2" 4,000m	
	05-07 Power to convey		Pressure, Gravity	Gravity (Spring), Pressure (Well)	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil. GR	
	05-10 Water reserver type 05-11 Water reserver No.		Type no.	GR*2nos.	_
	05-12 Water reserver Capacity		m3	GR100m3*1no., GR50m3*1no.	
	05-13 Transmission Type (Booster	pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit		Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	See below memo	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Pub		RC, Masonry, Pipeetc.	Mansonry 14	
	05-19 Number of faucet at a water		no.	4 FC*4PF, 3FC*3PF, 2FC*7PF	
	05-20 Average of daily water cons		m3/day	0.2m3/day	
	05-21 Number of House Connection			418	
	05-22 Average of daily water consum		m3/day	0.08m3/day	
	05-23 Number of Business Conect			82	
	05-24 Type of Business Connection			Gov., School, Hotel, Chrch, Hospital	
	05-25 Average of daily water consump 05-26 Other technical specimen	tion of Business Connection (BC)	m3/day	0.37m3/day	-
	03-20 Other technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name			Town water supply servse office	
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc		
	06-03 Number of thechnical staff	. CC		3	-
	06-04 Principal works of technical 06-05 Number of the financial staf			Pump operation, Plumbing	-
	06-06 Principal works of financial			Water meter reading, Bill	
	06-07 Categories of water tariff		Point, House Connectionetc.		1
	06-08 Water tariff rate		,	,	
	Water point (Public faucet)		Birr/L, 20L	0.1 birr/20L	
	House connection		Birr/m3	0~30m3=3.0birr/m3, 30m3~=4.0birr/n	m
	Business connection		Birr/m3	ditto	-
	06-09 Average monthly income by		Birr/month Zonal Cap Pag Cap etc.	6,500birr/month	
	06-10 Procurement of spare parts 06-11 Principal spare parts		, Zonal Cap. Reg. Capetc. l filter, Fuel filter, Pipesetc	Arba Minch, Chencha Water meter, Pipes&Fittings	
	06-12 Method in case of serious re		office, Private companyetc		
	06-13 Principal serious repair with		are company mete	Generator broken	
	06-14 Fund for above 6-09, 6-10		nnization, Gov., Donorsetc.		
	06-15 Other technical specimen				
l					

S-35 Chenicha

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.		ater short	
	Water supply facility Decrepit, leakage, design failure	etc.Po	oor design	of pipe network (dia.)
	07-02 Finalcial			
	Management		ot grasp	
	Rate of water tarrif collection			d water tariff
	Personnel expenses		ot grasp	
	Shortage of budget to execute operation & maintenace	M	leasure of	transportaion
	07-03 Other incidential, Special specimen  Increase in population to consume water coming from other towns, villages.	-4 - In	omonim a vv	oulton for apple plantation
	Increase in population to consume water coming from other towns, villages Change in industry increase factory, Trading .	etc.III	oroso trad	ing (Apple plantation
	Human conflict Ethnic, Administrative .			шу (Арріс ріа
	07-04 Other technical specimen		••	
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridge	etc.)		
	Slope on mountain, Highland Area			
				***************************************
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)			33%
	(0.2m3*14PF+0.08m3*418HC+0.37m3*82BC)/20Lpcd.= 3,329 persons 3,329persons	/ 10 223	3 populatio	
	Current Water Coverage (%) (by data of water source product))		Горинин	??%
	((??L+??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/1022	3popula	tion=??%	
	Water Potential (A/B/C/D/E)			C
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E		pproached	B / B
	A=Road Width > $6m / B = 3 - 6m / C = 1 - 3m / D = <1$	m		100
	Sub Grade road 17km from Asphalt road of Arba Minch. (=13+17km)			T
13	Manpower Capability of Water Supply Management by Water Office point)			12
1.4	D (A / D / G / D / D)			1
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7			
	Refer to Chapter 5 & /			
	*			
15				
15	New Water Supply Plan			
		ed techn	ology. The	e small town is on the gent
	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.	ed techn	ology. The	e small town is on the gent
	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's	ed techn	ology. The	e small town is on the gent
	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.	ed techn	ology. The	e small town is on the gent
16	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.  Other Donors, NGO's Catholic church, World vision			e small town is on the gent
16	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's		ology. The	e small town is on the gent
16 17	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group			e small town is on the gent
16 17	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions	G	amo	
16 17	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town	G H	amo ospital, Di	rug store
16 17	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	G H	amo ospital, Di	rug store
16 17	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town	G H	amo ospital, Di ( yphoid	rug store
16 17	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	G H T <u>i</u> M	amo ospital, Di ( yphoid lalaria	rug store ) 300 100
116 117 118	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	G H T,	amo ospital, Di ( yphoid [alaria thers	rug store ) 300 100 2,000
116 117 118	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	G H T,	amo ospital, Di ( yphoid [alaria thers	rug store ) 300 100
116 117 118	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	G H T,	amo ospital, Di ( yphoid [alaria thers	rug store ) 300 100 2,000
117 118 119 220	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities	G H T; M O Ti	amo ospital, Di (yphoid lalaria thers rade, Live	rug store ) 300 100 2,000 stock, Weaving, Farming
117 118 119 220	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	G H T; M O Tr	amo ospital, Di (yphoid falaria thers rade, Live	rug store ) 300 100 2,000 stock, Weaving, Farming
117 118 119 220	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.	G H T; M O Tr	amo ospital, Di (yphoid falaria thers rade, Live	rug store ) 300 100 2,000 stock, Weaving, Farming
117 118 119 220	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i	G  H  Ty  M  O  Tri  gular wa	amo ospital, Dr (yphoid lalaria thers rade, Live- ter supply	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
117 118 119 220	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.	G  H  T; M O Ti  gular wa is not co	amo ospital, Dr ( yphoid lalaria thers rade, Liver ter supply ontributed	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
16 17 18	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.	G  H  T; M O Ti  gular wa is not co	amo ospital, Dr ( yphoid lalaria thers rade, Liver ter supply ontributed	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
16 18 19 20	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:	G  H  T; M O Ti  gular wa is not co	amo ospital, Dr ( yphoid lalaria thers rade, Liver ter supply ontributed	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
117 118 119 120	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.	G  H  T; M O Ti  gular wa is not co	amo ospital, Dr ( yphoid lalaria thers rade, Liver ter supply ontributed	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:	G  H  T; M O Ti  gular wa is not co	amo ospital, Dr ( yphoid lalaria thers rade, Liver ter supply ontributed	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120 221	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:	G  H  T; M O Ti  gular wa is not co	amo ospital, Dr ( yphoid lalaria thers rade, Liver ter supply ontributed	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:  no (Town sketchetc.):    O4-02 Well spec.	G  H  Ty  M  O  Tr  gular wa is not co	amo ospital, Dr (yphoid lalaria thers rade, Live ter supply intributed to Gurach oil 091688	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.  Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:  no (Town sketchetc.):    O4-02 Well spec.   Spring No.1 Established on 1988   ??L/sec.   Well No.1 Established on 1994   Depth GL-154m / casing dia. 6"/ SWL GL-??m	G  H  Ty M O Ti  gular wa is not co	amo ospital, Dr (yphoid falaria thers rade, Liver ter supply ontributed to Gurach oil 091688	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120 221	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:  no (Town sketchetc.):    O4-02 Well spec.	G  H  Ty M O Ti  gular wa is not co	amo ospital, Dr (yphoid falaria thers rade, Liver ter supply ontributed to Gurach oil 091688	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 220 221	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.  Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:    O4-02 Well spec.   Spring No.1 Established on 1988   ??L/sec.	G  H  Ty M O Ti  gular wa is not co	amo ospital, Dr (yphoid falaria thers rade, Liver ter supply ontributed to Gurach oil 091688	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
117 118 119 120 221	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.  Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:  Nemarks:  Other Donors, NGO's  Later Donors, NGO	G  H  Tr  M  O  Tr  Sullar was is not consist and consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consi	amo  ospital, Di (yphoid lalaria thers rade, Liver ter supply ontributed to Gurach oil 091688	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverag a Guja Head of WSS 81004, Office: 046776009
117 118 119 120 221	New Water Supply Plan Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advance slope, construction work is not difficult.  Other Donors, NGO's Catholic church, World vision  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: 0.5 " pipe is used as distribution line in the net work, so that custemers complain for irreg The new well (2nd.) and water supply facility which were constructed by NGO on 2010 i due to lack of design.  Remarks:    O4-02 Well spec.   Spring No.1 Established on 1988   ??L/sec.	G  H  Tr  M  O  Tr  Sullar was is not consist and consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consist of consi	amo  ospital, Di (yphoid lalaria thers rade, Liver ter supply ontributed to Gurach oil 091688	rug store ) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage

S-35 Chenicha



S-36 Ezo

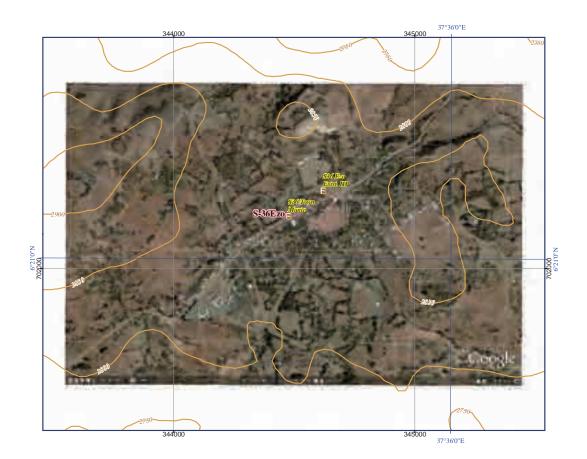
SNNPR			28 / 52	
Name of small tow	n :	Ezo	S- 36	
Name of Woreda	•	Chencha	SW- 27	
Name of Zone	:	Gamo Gofa	sz- 07	
	Profile items		Profile	!
01 Population				+ •
Town	male / female / total	by SNNPR	836 986 1,822	2
Woreda	male / female / total	by Census 2007	51,307 60,373 111,680	)
percentage of Town i			1.6%	_
02 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	344386 702079 2,825	5
03 Town Status 04 Water Source			Municipality	+
04 Water Source 04-01 Water source		Type, No.	Well * 5nos. (Not function)	!
04-01 Water source	Г	Depth., Casing Dia., S.W.L, Yield		<u> </u>
04-03 Method of water dray		Pump, Gravity	Pump	· ·
04-04 Pump Spec.		Type, Yield	Handpump	
04-05 Power source for mo	torized pump	Type, Kva	Manual	
04-06 Durartion of water dr	aw (Operation hours)	daily hours, time	Not function	!
04-07 Water quality		Iron, Fluorideetc.	Not grasped	!
04-08 Other technical speci	men			<b>_</b>
05 Eviating W-t C	lition			1
05 Existing Water Supply Faci 05-01 Established year	nues	(Gregorian calendar)	2004	
05-02 Financial of impleme	entation	Donor's name	World Vision	
05-03 Name of implementa		Donor's name	Ezo water system	
05-04 Intake Type			Well (Shallow well)	
05-05 Intake No.			5nos.	
05-06 Conveyance Type (W	Vater source ~ Reservoir)	Pipe material, length	nil.	
05-07 Power to convey		Pressure, Gravity	nil.	
05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment capa 05-10 Water reserver type	icity	m3/day Type	nil.	
05-10 Water reserver type		no.	nil.	-
05-12 Water reserver Capac	city	m3	nil.	
	Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	
05-14 Power to transmit		Pressure, Gravity	nil.	
05-15 Distribution Type		Pipe material, length	nil.	
05-16 Power to distribute		Pressure, Gravity	nil.	
	ter point (Public Faucet, PF)	RC, Masonry, Pipeetc.		-
05-18 Number of water point	a water point (Public Faucet, PF)	no.	5 (Handpump) nil.	
	er consumption at a water point (F		Not grasped (Handpump)	
05-21 Number of House Co		1) 1110, 411)	nil.	-
	consumption of House Connection(H	C) m3/day	nil.	
05-23 Number of Business			nil.	
05-24 Type of Business Con		hool, Gov. office, Hospitaletc		
	consumption of Business Connection (E	BC) m3/day	nil.	
05-26 Other technical speci	men			_
06 Operation and Maintenace				+
06-01 Organization's name			Ezo water system	
06-02 Type of organization		Regional, Zone, Enterpriceetc		
06-03 Number of thechnica			nil.	
06-04 Principal works of te			nil.	
06-05 Number of the finance			nil.	_
06-06 Principal works of fir		V.D.: II C	nil.	
06-07 Categories of water to 06-08 Water tariff rate	a1111 V	V.Point, House Connectionetc	. 1111.	
Water point (Public f	aucet)	Birr/L, 20L	Free	+
House connection		Birr/m3	nil.	<b>†</b>
Business connection		Birr/m3	nil.	
06-09 Average monthly inc		Birr/month	nil.	
06-10 Procurement of spare	parts at To	wn, Zonal Cap. Reg. Capetc.		
06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		
06-12 Method in case of ser		nal office, Private companyetc		
06-13 Principal serious repa 06-14 Fund for above 6-09,		Organization, Gov., Donorsetc.	Pump broken Regional	-
06-14 Fund for above 6-09, 06-15 Other technical speci		ngamzation, Gov., Donoisetc	- Incgrotter	
00-15 Other technical speci	111011			<del>-</del>
			1	

S-36 Ezo

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Water shortage		
		Design failure	e (Well)	
	07-02 Finalcial			
		Not grasped		!
	Rate of water tarrif collection	Not grasped		!
	Personnel expenses	free		!
	Shortage of budget to execute operation & maintenace	Shortage water	er	!
	07-03 Other incidential, Special specimen	mil .		
	Increase in population to consume water coming from other towns, villagesetc Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc			
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town is on the slope of mountain.			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)	I	0%	
10	(0m3*5PF+0m3*0HC+0m3*0BC)=0m3/day 0m3/20Lpcd.= 0persons 0persons / 783 popu	lation = 0%	070	
	Current Water Coverage (%) (by data of water source product))	1011 = 070	0%	
	((0L)*3600sec.*8hrs)=0L/day 0/20Lcd=???persos 0persons/1822population=0%		0,0	
11	Water Potential (A/B/C/D/E)		С	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B / B	
	A=Road Width > $6 \text{m /B} = 3 \text{-}6 \text{m / C} = 1 \text{-}3 \text{m / D} = < 1 \text{m}$			
	Access road is Asphalt & Sub grade 47km from Arba Minch. (=14+33km from Arba Minch)			
13	Manpower Capability of Water Supply Management by Water Office point)		3	
1.4	D. C. (A.D.(G.D.(E))	1		
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7			
	Refer to Chapter 3 & 7			
15	New Water Supply Plan			
10				
	The facility can be designed in an Ethiopian standard, which is not required more advanced technowever, construction works is required some ingenuities arround water sources.	nnology. The	small town is on the ric	ige,
	nowever, construction works is required some nigenuities arround water sources.			
16	Other Donors, NGO's			
	World Vision			
17	Main Educia Corres	C		
1/	Main Ethnic Group	Gamo		
18	Health conditions			
10		Health Center	r. Drug store	
	-2 Nearest other facilities from Town km	15	-/	
	-3 Main patients of water born diseases persons / year	Mararia	169	
		Typhoid	86	
10		Others	700	_
19	Main economic activities	Trade, Wavin	g, Farming	
20	Particular comments :			
20	Town population is less than 2,000 persons in accordance with list of the candidate small town	S		
21	Remarks:			
	Mr. Afework Teshager Kebe			
	Mr. Tariku Masa Ezo Town v			ne
Men	<u> </u>			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne
Men	Mr. Tariku Masa Ezo Town v			ne

データ 7.3 南部諸民族州の小都市プロファイル

S-36 Ezo



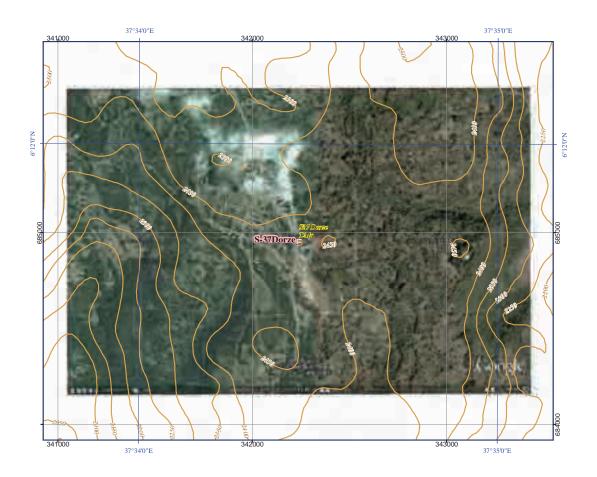
S-37 Dorze

	SNNPR				29 /		
	Name of small town		Dorze		S- 3		
	Name of Woreda		Chencha		SW- 2	27	
	Name of Zone	:	Gamo Gofa	a	SZ- 0	7	
		Profile items			Profile		!
)1	Population						_
	Town	male / female / total	by SNNPR	547	709	1,256	
	Woreda	male / female / total	by Census 2007	51,307	60,373	111,680	
	percentage of Town in W			2/2/2/	40.404.0	1.1%	_
	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	342151	684810	2,466	
	Water Source			Municipality		-	
)+	04-01 Water source		Type, No.	Spring*1no./	Well*2nos.		
	04-02 Well spec.	De	pth., Casing Dia., S.W.L, Yield				
	04-03 Method of water draw		Pump, Gravity	Gravity / Pump			
	04-04 Pump Spec.		Type, Yield	Gravity / Hand	pump		
	04-05 Power source for motoriz		Type, Kva	nil. / Manual			
	04-06 Durartion of water draw (	Operation hours)	daily hours, time	06:00-12:00, 1	4:00-18:00 (1	Ohrs./day)	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Good			
	04-08 Other technical specimen						
)5	Existing Water Supply Facilities	S				+	
_	05-01 Established year		(Gregorian calendar)	1980 (Spring)	/ 2006 (Han	idpump)	
	05-02 Financial of implementati		Donor's name	NGO (Not gras	sped name)		
	05-03 Name of implementation	(Project name)		Dorse town wa			
	05-04 Intake Type			Spring / Well (	shallow well)	)	
	05-05 Intake No.			1 / 2			
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, ??", 800m	n (Spring)		
	05-07 Power to convey 05-08 Water treatment		Pressure, Gravity Disinfection, Ironetc.	Gravity nil.			
	05-08 Water treatment capacity		m3/day	nil.			
	05-10 Water reserver type		Type	ER (Spring)			
	05-11 Water reserver No.		no.	1no. (Spring)			
	05-12 Water reserver Capacity		m3	10m3 Spring)			
	05-13 Transmission Type (Boos	ster pump Stn. ~ Reservoir)	Pipe material, length	nil.			
	05-14 Power to transmit		Pressure, Gravity	nil.			
	05-15 Distribution Type		Pipe material, length	Not grasped (S Gravity (Spring			
	05-16 Power to distribute 05-17 Structure Type of water p	oint (Dublic Foundt DE)	Pressure, Gravity RC, Masonry, Pipeetc.		g)		
	05-17 Structure Type of water p		no.	1			
	05-19 Number of faucet at a wa		no.	2			
	05-20 Average of daily water co		m3/day	0.14m3/day			
	05-21 Number of House Connec			nil.			
	05-22 Average of daily water cons		) m3/day	nil.			
	05-23 Number of Business Con			nil.			
	05-24 Type of Business Connec		ool, Gov. office, Hospitaletc				
	05-25 Average of daily water consu 05-26 Other technical specimen		C) m3/day	nil.			
	05-26 Other technical specimen						_
)6	Operation and Maintenace						_
	06-01 Organization's name			Water committe	ee (Establishe	d on 2008)	
	06-02 Type of organization	R	egional, Zone, Enterpriceetc	Woreda			
	06-03 Number of thechnical sta	ff		nil.			!
	06-04 Principal works of technic			nil.			
	06-05 Number of the financial s			nil.			!
	06-06 Principal works of financ		<del></del>	nil.			
	06-07 Categories of water tariff	W	Point, House Connectionetc	nil.			
	06-08 Water tariff rate  Water point (Public fauce	t)	Birr/L, 20L	Free			
	House connection		Birr/m3	nil.			
	Business connection		Birr/m3	nil.			
	06-09 Average monthly income	by water tariff	Birr/month	nil.			
	06-10 Procurement of spare part	ts at Tow	n, Zonal Cap. Reg. Capetc.				
	06-11 Principal spare parts	C	oil filter, Fuel filter, Pipesetc	Parts of Handp	ump		
	06-12 Method in case of serious		l office, Private companyetc				
	06-13 Principal serious repair w			Not grasped			
	06-14 Fund for above 6-09, 6-10		ganization, Gov., Donorsetc	Water committ	ee		
	06-15 Other technical specimen						

S-37 Dorze

Or-OT Technical   Water surply facility   Decrepit, leakage, design failureetc   Design failure	07 ]	Problem of actual town water supply				т —
Water source   Quantity, Ondityetc.   Shortage water   Water supply facility   Descripti, lenkage, design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc   Design failureetc						-
Water supply facility Decrepit, leakage, design failureet. Design failure	l'		Shortage wat	er		-
O'-22 Finalcial   Management   Not grasped	ŀ					-
Management   Not grasped   Not grasped   Personnel expenses   Not grasped   Personnel expenses   Not grasped   Not grasped   Not grasped   O7-03 Other Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special specimen   Incidential, Special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special	Ĩ					
Rate of water tarif collection   Not grasped   Personnel expenses   Not grasped   Not	ľ		Not grasped			1
Personnel expenses   Not grasped	r					1
Shortage of budget to execute operation & maintenance   Not grasped	ľ					-
O7-03 Other incidential. Special specimen   Increase in population to consume water   coming from other towns, villages  etc nil   Change in industry   increase factory, Trading  etc nil   Human conflict   O7-04 Other specimen	ľ					
Increase in population to consume water coming from other towns, villagesetc.iii. Change in industry increase factory, Tradingetc oii. 07-04 Other specimen  8 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)  9 Necessary Institution (Facility, Material) Refer to Chapter 4 Table 4.7°  10 Current Water Coverage (%) (by water consumption at faucets) (io.14m3*1PF+0m3*0HC+0m3*0BC)-0.14m3*day 0.14m3*20Lpcd=7persons 7persons/1.256population = 0.0% Current Water Coverage (%) (by data of water source product) (io.14m3*1PF+0m3*0HC+0m3*0BC)-0.14m3*day 0.14m3*20Lpcd=7persons 7persons/1.256population = 0.0% Current Water Coverage (%) (by data of water source product) (io.14m3*1PF+0m3*0HC+0m3*0BC)-0.14m3*day 0.14m3*20Lpcd=7persons 7persons/1.256population = 0.0% Current Water Coverage (%) (by data of water source product) (io.14m3*1PF+0m3*0HC+0m3*0BC)-0.14m3*day 0.14m3*20Lpcd=7persons 7persons/1256population=7persons/1.256population=0.0% Current Water Coverage (%) (by data of water source product) (io.14m3*1PF+0m3*0HC+0m3*0BC)-0.14m3*day 0.14m3*20Lpcd=7persons 7persons/1256population=0.0% Current Water Coverage (%) (by data of water source source of product) (io.14m3*1PF+0m3*0HC+0m3*0BC)-0.14m3*day 0.14m3*day 0.14m3*	(					<b>†</b>
Change in industry Human conflict O7-04 Other specimen  8 Geographical condition  9 Necessary Institution (Facility, Material) Refer to Chapter 4 Table 4.7*  10 Current Water Coverage (%) (by water consumption at faucets) (0.14m3*1PF+0m3*0HC+0m3*0BC>0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6% (0.14m3*1PF+0m3*0HC+0m3*0BC>0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6% (0.72m3*1PF+0m3*0HC+0m3*0BC>0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6% (0.72m3*0H0*0+0m3*0BC>0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6% (0.72m3*0H0*0+0m3*0BC>0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6% (0.72m3*0H0*0+0m3*0BC>0.14m3/day 0.72m3/0H0*0+0m3*0BC>0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6% (0.72m3*0H0*0+0m3*0BC>0.14m3/day 0.72m3/day 0.72m3/d			nil.			T
Human conflict 07-04 Other specimen 08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)  99 Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"  10 Current Water Coverage (%) (by water consumption at faucets) (0.14m3*) PF+0m3*0HC+0m3*0BC; -0.14m3*day 0.14m3; 201,ped=7persons 7persons/1,256population = 0.6% (Current Water Coverage (%) (by data of water source product) (771.)*3600sec. *8hrs)=?71.day 7??20Lcd=???persos ???persons/1256population=??%  11 Water Potential (A/B/C/D/E) A=Asphalt/B=Base CourseC-Sub Grade-D-Osly Dry Season/E-Not Approached B/B A=Road Width > 6m/B=>3-6m/Ce-1-3m/D=	r					1
OF-04 Other specimen   OR-04 Other specimen	ľ					†
Segraphical condition   (Slope on mountaion, bottom of valley, Top of ridgeetc.)	(					1
Oscassary Institution (Facility, Material)   Refer to Chapter 4 "Table 4.7"   Occasion   Oscasion	r					1
Oscassary Institution (Facility, Material)   Refer to Chapter 4 "Table 4.7"   Occasion   Oscasion	08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)			T
Refer to Chapter 4 "Table 4.7"    Current Water Coverage (%) (by water consumption at faucets) (0.14m3*IPF+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_=7persons 7persons 7l_256population = 0.6% (0.14m3*IPF+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_=7persons 7persons 7l_256population = 0.6% (0.14m3*IPF+0m3*0BCc_=8hsp)=???day ??;20Lcd=???persos???persons/1256population=??%   C	ľ					
Refer to Chapter 4 "Table 4.7"    Current Water Coverage (%) (by water consumption at faucets) (0.14m3*IPF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_7persons 7persons 71,256population = 0.6% (0.14m3*IPF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_7persons 7persons 71,256population = 0.6% (0.14m3*IPF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_7persons 7persons 7persons 71,256population = 0.6% (0.72L)*3600sec.*8hrs)=?7L/day ??/20Lcd=???persos ???persons/1256population=??%						T
Refer to Chapter 4 "Table 4.7"    Current Water Coverage (%) (by water consumption at faucets) (0.14m3*IPF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_7persons 7persons 71,256population = 0.6% (0.14m3*IPF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_7persons 7persons 71,256population = 0.6% (0.14m3*IPF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd_7persons 7persons 7persons 71,256population = 0.6% (0.72L)*3600sec.*8hrs)=?7L/day ??/20Lcd=???persos ???persons/1256population=??%						
Current Water Coverage (%) (by water consumption at faucets)	09 ]	Necessary Institution (Facility, Material)				
O.14m3*1PF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd=7persons 7persons /1,256population = 0.6%	ĵ	Refer to Chapter 4 "Table 4.7"				
O.14m3*1PF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd.=7persons 7persons/1,256population = 0.6%     Current Water Coverage (%) (by data of water source product))	ſ					
O.14m3*1PF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd.=7persons 7persons/1,256population = 0.6%     Current Water Coverage (%) (by data of water source product))						
Current Water Coverage (%) (by data of water source product) ((???L*)*8600sec.*\$hrs)=??L/day ???20Lcd=???persos ???persons/1256population=??%    Water Potential (A / B / C / D / E)					i%	
Current Water Coverage (%) (by data of water source product))  ((??L)*8600sec.*8hrs)=??L/day ??/20Lcd=???persos ???persons/1256population=??%    Water Potential (A/B/C/D/E)			256population	= 0.6%		
Water Potential (A/B/C/D/E)	Ī	Current Water Coverage (%) (by data of water source product))			%	
Access ibility (A / B / C / D / E) A-Asphalt/B-Base Course/C-Sub Grade/D-Only Dry Season/E-Not Approached A=Road Width > 6m /B= >3-6m / C= 1-3m / D= <1m Access road is Asphalt & Sub grade 26km from Arba Minch. (=14+12km from Arba Minch)    Manpower Capability of Water Supply Management by Water Office point)						
A=Road Width > 6m /B= >3-6m / C= 1-3m / D= <1m   Access road is Asphalt & Sub grade 26km from Arba Minch. (=14+12km from Arba Minch)    Manpower Capability of Water Supply Management by Water Office   point)   5	11 '	Water Potential (A / B / C / D / E)		C	2	
A=Road Width > 6m /B= >3-6m / C= 1-3m / D= <1m   Access road is Asphalt & Sub grade 26km from Arba Minch. (=14+12km from Arba Minch)    Manpower Capability of Water Supply Management by Water Office   point)   5	_ [					1
Access road is Asphalt & Sub grade 26km from Arba Minch. (=14+12km from Arba Minch)    Manpower Capability of Water Supply Management by Water Office   point)   5	12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	В/	В	
Manpower Capability of Water Supply Management by Water Office   point)   5	ľ	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m				7
14   Dgree of urgency (A/B/C/D/E)   Refer to Chapter 5 & 7		Access road is Asphalt & Sub grade 26km from Arba Minch. (=14+12km from Arba Minch)				
Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction works is required some ingenuities arround water sources.  16  Other Donors, NGO's nil.  17  Main Ethnic Group  Gamo  Health Conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Thyroid 600  Dysentery 180  Malaria 15  19  Main economic activities  Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring: Not grasped	13	Manpower Capability of Water Supply Management by Water Office point)		5	i	
Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction works is required some ingenuities arround water sources.  16  Other Donors, NGO's nil.  17  Main Ethnic Group  Gamo  Health Conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Thyroid 600  Dysentery 180  Malaria 15  19  Main economic activities  Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring: Not grasped	ľ		•			1
Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction works is required some ingenuities arround water sources.  16  Other Donors, NGO's nil.  17  Main Ethnic Group  Gamo  Health Conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Thyroid 600  Dysentery 180  Malaria 15  19  Main economic activities  Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring: Not grasped	ľ					
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The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally flat terrains, construction works is required some ingenuities arround water sources.  16 Other Donors, NGO's nil.  17 Main Ethnic Group Gamo  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km 7  -3 Main patients of water born diseases persons / year Thyroid 600  Dysentery 180  Malaria 15  19 Main economic activities Waving, Trade, Farming  20 Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future. Town population is less than 2,000 persons in accordance with list of the candidate small towns.  21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke; Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped			·			1
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generally flat terrains, construction works is required some ingenuities arround water sources.  16 Other Donors, NGO's	15	New Water Supply Plan				T
generally flat terrains, construction works is required some ingenuities arround water sources.  16 Other Donors, NGO's	ſ,	The facility can be designed in an Ethiopian standard, whichis not required more advanced too	hnology The	emall town is	on the	
Other Donors, NGO's  nil.    Main Ethnic Group				sman town is	on the	
nil.    Main Ethnic Group   Gamo						
Main Ethnic Group   Gamo	16					
Health conditions  -1 Medical facilities in Town		nil.				
Health conditions  -1 Medical facilities in Town						
-1 Medical facilities in Town	17	Main Ethnic Group	Gamo			
-1 Medical facilities in Town						
-2 Nearest other facilities from Town km 7  -3 Main patients of water born diseases persons / year Thyroid 600  Dysentery 180  Malaria 15  19 Main economic activities Waving, Trade, Farming  20 Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped	18					ļ
-3 Main patients of water born diseases persons / year Thyroid 600  Dysentery 180  Malaria 15  19 Main economic activities Waving, Trade, Farming  20 Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped	L		Health Cente	r		<u> </u>
Dysentery 180 Malaria 15  19 Main economic activities Waving, Trade, Farming  20 Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future. Town population is less than 2,000 persons in accordance with list of the candidate small towns.  21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007 Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped	L		7			
Malaria 15 Waving, Trade, Farming  Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future. Town population is less than 2,000 persons in accordance with list of the candidate small towns.  Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007 Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped	L	-3 Main patients of water born diseases persons / year				
19 Main economic activities Waving, Trade, Farming  20 Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007 Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped	ļ					<b>_</b>
20 Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring; Not grasped	10	Main aconomic activities				+
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Water committee, established on 2008, has plan correction water fee for O&M which to be done in future.  Town population is less than 2,000 persons in accordance with list of the candidate small towns.  Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007 Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring ; Not grasped	20	D. 4:				+
Town population is less than 2,000 persons in accordance with list of the candidate small towns.    Remarks :	<b></b>		no in f-t			+
21 Remarks:  Mr. Kanko Ketema Kebele chairman 0910439007  Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec.  Spring ; Not grasped	F	water committee, established on 2008, has plan correction water fee for O&M which to be do	nie in iuture.			+-
Mr. Kanko Ketema Kebele chairman 0910439007 Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring ; Not grasped	ľ	Town population is less than 2,000 persons in accordance with list of the candidate small town	ns.			
Mr. Kanko Ketema Kebele chairman 0910439007 Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.):  04-02 Well spec. Spring ; Not grasped	21	Pamarks ·				+
Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.) :  04-02 Well spec. Spring ; Not grasped	112	ACHIGINS.				+
Mr. Wondwossen Beke;le Land resources Adm. Of the town 0912  Memo (Town sketchetc.) :  04-02 Well spec. Spring ; Not grasped	ŀ	Mr. Kanka Katama Kahala a	hairman 0010	439007		+
Memo (Town sketchetc.) :  04-02 Well spec.  Spring ; Not grasped	ŀ				1 091248642	n
04-02 Well spec. Spring ; Not grasped	Iom		a resources Au	or the town	. 571270072	+
Spring ; Not grasped	10111	U (TOWII SACICII Cit.).	1	l		L
Spring ; Not grasped		04-02 Well spec				7
						<del> </del>
WALLEND I: HETADHERAG ON JUHN LIANTE LA 3 /m / COCERC dec TT / VM/L L-1 T/m / TH /COC			/sec			-
	$\dashv$					+
Well No.2; Established on 2006 Depth GL-37m / casing dia. ??"/ SWL GL-??m / ??L/sec.	L	wen 1vo.2; Established on 2000 Depth GL-3/m / Casing dia. !! / SwL GL-!/m / !/L	_/ SEC.			

S-37 Dorze



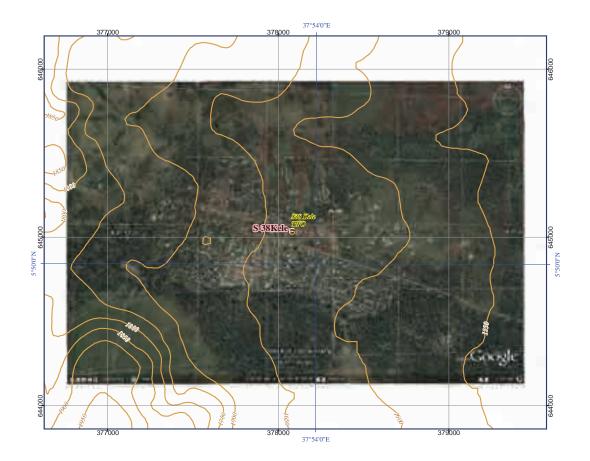
S-38 Kele

SNNPR			30 / 52	
Name of small town		Kele	S- 38	
Name of Woreda	•	Amaro Spec		
Name of Zone	:	Gamo Gofa	SZ- 07	
	Profile items		Profile	!
01 Population				
Town	male / female / total	by SNNPR	1	3,632
Woreda percentage of Town in Wo	male / female / total	by Census 2007		9,384 5.8%
22 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.		1,648
3 Town Status	0 1111 (1 1111111111)		Municipality	,,,,,,
04 Water Source				
04-01 Water source		Type, No.	Spring*5nos. nil.	
04-02 Well spec. 04-03 Methor of water draw		Depth., Casing Dia., S.W.L Pump, Gravity	Gravity	
04-04 Pump Spec.		Type, Yield	nil.	
04-05 Power source		Type, Kva	nil.	
04-06 Durartion of water draw		daily hours, time	12hours /day (P.F.), 24hours (Priv	ate)
04-07 Water quality		Iron, Fluorideetc.	Good	
04-08 Other technical specimen				
05 Existing Water Supply Facilities				
05-01 Established year		(Gregorian calendar)	2000 / 2003	
05-02 Financial of implementation	on	Donor's name	UNICEF, Agri servise (NGO)	
05-03 Name of implementation			Kele water project	
05-04 Intake Type 05-05 Intake No.			Spring 5	
05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	See below memo	
05-07 Power to convey	source reservoir)	Pressure, Gravity	Gravity	
05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment capacity		m3/day	nil.	
05-10 Water reserver type		Туре	GR	1)
05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	GR*2nos. (Serge & Reservoir Tar GR50m3*2nos.	1K)
05-12 Water reserver capacity	er pump Stn. ~ Reservoir)	Pipe material, length	nil.	
05-14 Power to transmit		Pressure, Gravity	nil.	
05-15 Distribution Type		Pipe material, length	See below memo	
05-16 Power to distribute		Pressure, Gravity	Gravity	
05-17 Structure Type of water po 05-18 Number of water point (Pu		RC, Masonry, Pipeetc.	Mansonry 21	
05-19 Number of faucet at a wat		no.	4 FC*16PF, 3FC*4PF, 2FC*1PF	
05-20 Average of daily water co			0.587m3/day	
05-21 Number of House Connec			600	
05-22 Average of daily water consu		C) m3/day	0.23m3/day	
05-23 Number of Business Cone		1 Cff: H:t-1 -t-	10	
05-24 Type of Business Connect 05-25 Average of daily water consur		ool, Gov. office, Hospitaletc	0.33m3/day	
05-26 Other technical specimen	ipiton of Business Connection (B	C) III3/day	0.55H3/day	
-				
Operation and Maintenace				
06-01 Organization's name		) : 17 F. : .	Town water supply servse	
06-02 Type of organization 06-03 Number of thechnical staf		Regional, Zone, Enterpriceetc	3	
06-04 Principal works of technic			Plumbing	
06-05 Number of the financial st			7	
06-06 Principal works of financi			Water meter reading, Bill	
06-07 Categories of water tariff	W	Point, House Connectionetc.	W. Point, House connection	
06-08 Water tariff rate Water point (Public fauce)	)	Birr/I 20I	0.5 birr/20L	
House connection	.)	Birr/L, 20L Birr/m3	1.5(0~5m3), 1.75(6~10m3), 2.0(11~30m3), 2.5	5(30~)
Business connection		Birr/m3	ditto	/
		Birr/month	9,583birr/month	
06-09 Average monthly income		vn, Zonal Cap. Reg. Capetc.	Kelle	
06-10 Procurement of spare part				
06-10 Procurement of spare parts 06-11 Principal spare parts	(	Oil filter, Fuel filter, Pipesetc	Water meter, Pipes&fittings	
06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious	repair by Region		Water meter, Pipes&fittings Region to borrow heavy tools	
06-10 Procurement of spare parts 06-11 Principal spare parts	repair by Regions th 5-10 years	Oil filter, Fuel filter, Pipesetc	Water meter, Pipes&fittings Region to borrow heavy tools Broken pipes by land slide	

S-38 Kele

	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorta		
	Water supply facility	Decrepit, leakage, design failure	etc.Poor design	of pipe network (dia.)	
	07-02 Finalcial				
	Management		Not grasped		
	Rate of water tarrif collection		shall be rised	l water tariff	
	Personnel expenses		Not grasped		
	Shortage of budget to execute operation	& maintenace	Not grasped		
	07-03 Other incidential, Special specimen				
	Increase in population to consume water				
	Change in industry	increase factory, Tradinge			
	Human conflict	Ethnic, Administrativee	etc Often		!
	07-04 Other technical specimen				
08	Geographical condition (Slope on m	nountaion, bottom of valley, Top of ridgeet	tc.)		
	Town: Slope of ridge, rolling, up and down				
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
10	Current Water Coverage (%) (by water consumptions)	mption at faucets)		89%	
	(0.587m3*21PF+0.23m3*600HC+0.33m3*10	BC)=153.6m3/day 153.6m3/20Lpcd.= 7,681	persons 7,681	lpersons / 8,632 popula	tior
	Current Water Coverage (%) (by data of wate	r source product))		??%	
	((??L+??L+??L)*3600sec.*??hrs)=???L/day	???/20Lcd=???persos ???persons/8632pop	pulation=??%	•	
	Water Potential (A / B / C / D / E)			C	
12	Accessibility (A / B / C / D / E) A=Asphalt/E	B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	Not Approached	B / C	
		$Vidth > 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	Sub Grade road 35km from Asphalt road of Di	ila. (=64+35km from Dila)			<u> </u>
	Manpower Capability of Water Supply Manag			16	
-					_
-					
14	Doree of urgency (A / R / C / D / F)				
	Dgree of urgency (A / B / C / D / E) Refer to Chanter 5 & 7				
15	Refer to Chapter 5 & 7  New Water Supply Plan		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		11-
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's				
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15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)		with neighborho		
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's				
15 16	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group		with neighborho		
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions		with neighborho	oods for development of	
15 16	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources. Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town	es. There are some risks of troubles, conflicts	With neighborho	oods for development of	
15 16	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	es. There are some risks of troubles, conflicts	Kole  Health Cente	oods for development of	
15 16	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources. Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town	es. There are some risks of troubles, conflicts	Kole  Health Cente 165 Mararia	er, Private clinic, Drug s	
15 16	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	es. There are some risks of troubles, conflicts	Kole  Health Cente 165 Mararia Typhoid	er, Private clinic, Drug s	
15 16	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	es. There are some risks of troubles, conflicts	Kole  Health Cente 165 Mararia Typhoid Dysentery	er, Private clinic, Drug s 2,500 1,000 50	
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	es. There are some risks of troubles, conflicts	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's     UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions     Medical facilities in Town -2 Nearest other facilities from Town	es. There are some risks of troubles, conflicts	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s 2,500 1,000 50	
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	es. There are some risks of troubles, conflicts	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	
115 116 117 118 119 220	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's     UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions     -1    Medical facilities in Town     -2    Nearest other facilities from Town     -3    Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources. Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for	km persons / year  and Kele Town.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
115 116 117 118 119 220 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:	km persons / year and Kele Town. public safety.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
115 116 117 118 119 220 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources. Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:	km persons / year and Kele Town. public safety.	Kole  Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
115 116 117 118 119 220 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources. Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:  to (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Rese GIP ND-2*1/2=500m GIP ND-1	km persons / year  dt Kele Town. public safety.  servoir) *1/2"=1,500m	Kole  Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug s 2,500 1,000 50 1,500 ng, Farming, Livestock	store
115 116 117 118 119 220 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources. Other Donors, NGO's UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:	km persons / year  dt Kele Town. public safety.  servoir) *1/2"=1,500m	Kole  Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug s  2,500  1,000  50  1,500	store
115 116 117 118 119 220 121 Mem	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:  10 (Town sketchetc.):  10 (Town sketchetc.):  11 GIP ND-2*1/2=500m GIP ND-1  GIP ND-1*2,500m GIP ND-1	km persons / year  dt Kele Town. public safety.  servoir) *1/2"=1,500m	Kole  Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug s 2,500 1,000 50 1,500 ng, Farming, Livestock	store
115 116 117 118 119 220 21 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's     UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions     -1 Medical facilities in Town     -2 Nearest other facilities from Town     -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Instruments:  There are conflict of ethic in village area arour This small town is a priority of tranquility for Instruments:  10 (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Rese GIP ND-2*1/2=500m GIP ND-1 GIP ND-1"=2,500m GIP ND-1"=05-15 Distribution Type	km persons / year  Market Town. public safety.  pervoir) *1/2"=1,500m "=4,000m	Kole  Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug s 2,500 1,000 50 1,500 ng, Farming, Livestock	store
15 16 17 18 19 20 21 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's     UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions     -1    Medical facilities in Town     -2    Nearest other facilities from Town     -3    Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:  to (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Rese GIP ND-2*1/2=500m	km persons / year  Maryoir)  *1/2"=1,500m  "=1,500m  GIP ND-1"=1,500m	Kole  Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug s 2,500 1,000 50 1,500 ng, Farming, Livestock	store
115 116 117 118 119 220 21 Mem	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian st construction works is required some ingenuitie water sources.  Other Donors, NGO's  UNICEF, Agri servise (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: There are conflict of ethic in village area arour This small town is a priority of tranquility for Remarks:  to (Town sketchetc.):  05-06 Conveyance Type (Water source ~ Rese GIP ND-2*1/2=500m GIP ND-1 GIP ND-1 GIP ND-1 GIP ND-4"=45m GIP ND-4"=45m GIP ND-4"=45m GIP ND-4"=45m GIP ND-3"=800m GIP ND-1 GIP ND-3"=800m GIP ND-1"	km persons / year  Market Town. public safety.  pervoir) *1/2"=1,500m "=4,000m	Kole  Health Center 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug s 2,500 1,000 50 1,500 ng, Farming, Livestock	store

S-38 Kele



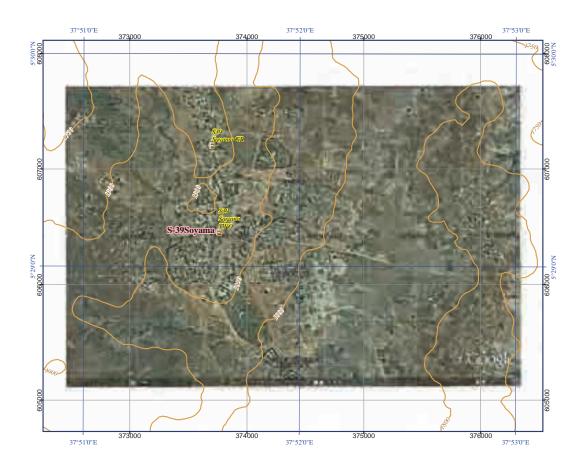
S-39 Soyama

	SNNPR			31 / 52	
	Name of small town	:	Soyama	S- 39	
	Name of Woreda		Burji Specia	al SW- 29	
	Name of Zone		Gamo Gofa	SZ- 07	
		Profile items		Profile	!
01	Population				
	Town	male / female / total	by SNNPR	3,051 3,217 6,268	
	Woreda percentage of Town in Wo	male / female / total	by Census 2007	27,643 28,880 56,523 11.1%	
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	373669 606300 1,902	
	Town Status		<i>g. g</i> .	Municipality	
	Water Source			G : *2	
	04-01 Water source 04-02 Well spec.		Type, No. Depth., Casing Dia., S.W.L	Spring*3nos. nil.	
	04-02 Well spec. 04-03 Methor of water draw		Pump, Gravity	Gravity	
	04-04 Pump Spec.		Type, Yield	nil.	
	04-05 Power source		Type, Kva	nil.	
	04-06 Durartion of water draw		daily hours, time	06:00~11:00 /day shifting 12PF Good	ļ
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	G00d	
	04-00 Other technical specimen				
	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1996	<u> </u>
	05-02 Financial of implementation 05-03 Name of implementation	on	Donor's name	Ethiopia Hiwot Chrch Soyama water project	_
	05-04 Intake Type			Spring	
	05-05 Intake No.			3 nos.	
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 3", 8,000m	
	05-07 Power to convey		Pressure, Gravity	Gravity	-
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nil.	
	05-10 Water reserver type		Type	GR	-
	05-11 Water reserver No.		no.	GR*3nos.	
	05-12 Water reserver Capacity		m3	GR50m3*1no., GR25m3*2nos.	
	05-13 Transmission Type (Boost 05-14 Power to transmit	er pump Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	See below memo	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water po		RC, Masonry, Pipeetc.		
	05-18 Number of water point (Pu		no.	4	
	05-19 Number of faucet at a water 05-20 Average of daily water cor		no.  m3/day	1.33m3/day	
	05-20 Average of daily water cor 05-21 Number of House Connect		) III3/day	7 (Public organization)	-
	05-22 Average of daily water consu	-	) m3/day	Not Grasp	
	05-23 Number of Business Cone			Not Grasp	_
	05-24 Type of Business Connect 05-25 Average of daily water consun			Gov., Hotel, School, Health center 0.2m3/day	
	05-26 Other technical specimen	iption of Business Connection (BC	-) 1113/uay	0.2m3/day	<del>                                     </del>
	Operation and Maintenace				
	06-01 Organization's name		. 17 F	Town water supply servse	
	06-02 Type of organization 06-03 Number of thechnical staff	F K	egional, Zone, Enterpriceetc	) woreda	_
	06-04 Principal works of technic			Plumbing, Water meter reading	<del>                                     </del>
	06-05 Number of the financial sta			8	
	06-06 Principal works of financia			Water meter reading	
	06-07 Categories of water tariff	W	Point, House Connectionetc.	W. Point	
	06-08 Water tariff rate Water point (Public faucet	)	Birr/L, 20L	0.1 birr/20L (5.0birr/m3)	+
	House connection		Birr/m3	nil.	<del> </del>
	Business connection		Birr/m3	nil.	
	06-09 Average monthly income b		Birr/month	Not Grasp	_
	06-10 Procurement of spare parts		n, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc		-
	06-11 Principal spare parts				
	06-12 Method in case of serious	renair hy Regiona	LOTTice, Private company — etc	l Woreda	
	06-12 Method in case of serious 06-13 Principal serious repair wi		l office, Private companyetc	Woreda Generator broken for old well (Abandon)	)
		th 5-10 years	ganization, Gov., Donorsetc.	Generator broken for old well (Abandon)	)

S-39 Soyama

		- / / //		
	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	<b></b>	tion is not efficiency.	
	Water supply facility Decrepit, leakage, design failureetc	Poor design	of pipe network	
	07-02 Finalcial			
	Management		nority by Municipality	y
	Rate of water tarrif collection	Shall be revi	sed water tari	
	Personnel expenses	Not Grasp		
	Shortage of budget to execute operation & maintenace	Not Grasp		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc	Not Green		
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	Often		
	07-04 Other technical specimen			
8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)		
	Town: Slope of ridge, rolling, up and down			
10	Necessary Institution (Facility, Material)			
,,	Spring source which has high yield are unprotected, can be added to the system			
	Refer to Chapter 4 "Table 4.7"			
	Current Water Coverage (%) (by water consumption at faucets)		?? %	
	(1.33m3*14PF+??m3*7HC+0.2m3*4BC)/20Lpcd.= ??? persons ???persons/4,659 population	on =??%		
	Current Water Coverage (%) (by data of water source product))		1.2%	
	(1.33+0.2)m3/day 1.53m3/20Lcd=765persos 765persons/6268population=1.2%			
	Water Potential (A / B / C / D / E)		С	
. 1				$\dashv$
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Ammuooohod	C/D	
12		Approached	C/D	<del></del>
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
-	Sub Grade road 85km from Asphalt road of Dila. (=64+85km from Dila)		•	
13	Manpower Capability of Water Supply Management by Water Office point)		13	
	D			
14	LIUTAA OLUTGANCU IA / B / L / LI / H )			
	Dgree of urgency (A / B / C / D / E)			
15	Refer to Chapter 5 & 7  New Water Supply Plan	hnology The	small town is on the	ridge
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's			
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.			
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)	n neighborhoo		
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's			
115 116	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group	n neighborhoo		
115 116	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions	n neighborhoo Burji	ds for development o	f water
115 116	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group	n neighborhoo Burji		f water
115 116	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions	n neighborhoo Burji	ds for development o	f water
115 116	Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Burji Health Cente	ds for development o	f water
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km	Burji  Health Cente 224 Mararia	ds for development o	f water
115	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km	Burji  Health Cente 224  Mararia  Diarrhea	er, Private clinic, Drug 2,570 1,550	f water
115	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km	Burji  Health Cente 224  Mararia Diarrhea Typhoid	er, Private clinic, Drug 2,570 1,550 1,200	f water
115	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km	Burji  Health Cente 224  Mararia Diarrhea Typhoid Dysentery	er, Private clinic, Drug 2,570 1,550 1,200 770	f water
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year	Burji  Health Cente 224  Mararia Diarrhea Typhoid Dysentery others	er, Private clinic, Drug 2,570 1,550 1,200 770 2,570	f water
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.  Other Donors, NGO's  Ethiopia Hiwot Chrch (NGO)  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town km	Burji  Health Cente 224  Mararia Diarrhea Typhoid Dysentery	er, Private clinic, Drug 2,570 1,550 1,200 770 2,570	f water
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S-39 Soyama



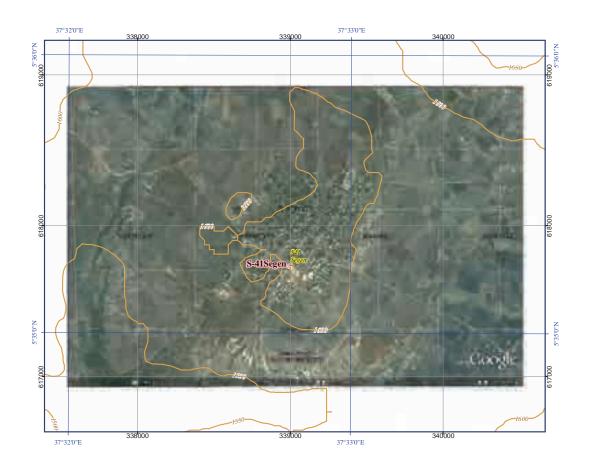
S-41 Segen

	SNNPR		32 / 52	
	Name of small town :	Segen	S- 41	
	Name of Woreda :	Konso Speci	ial SW- 30	1
	Name of Zone :	Gamo Gofa		
	Profile items	Outrio Gord	Profile	
01			Trome	!
01	Population Town male / female / total	by SNNPR	1,833 1,793 3,626	
	Woreda male / female / total	by Census 2007	113,353 121,634 234,987	
	percentage of Town in Woreda	· • · · · · · · · · · · · · · · · · · ·	1.5%	
_	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	338910 617582 1,628	
	Town Status		Town Administration	
04	Water Source 04-01 Water source	T N-	Well	
	<u></u>	Type, No. epth., Casing Dia., S.W.L, Yield		!
	04-03 Method of water draw	Pump, Gravity	Not grasped	!
	04-04 Pump Spec.	Type, Yield	Not grasped	!
	04-05 Power source for motorized pump	Type, Kva	Commercial Elec., Standby generator	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	6hrs/day	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			-
US	Existing Water Supply Facilities 05-01 Established year	(Gregorian calendar)	1981	
	05-01 Established year 05-02 Financial of implementation	Donor's name	SNNPR	
	05-03 Name of implementation (Project name)		Segen town water supply project	
	05-04 Intake Type		Well	
	05-05 Intake No.		1no.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2*1/2", 1,500m	
	05-07 Power to convey 05-08 Water treatment	Pressure, Gravity	Pressure	
	05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc.	nil.	
	05-10 Water reserver type	Type	GR	
	05-11 Water reserver No.	no.	lno.	
	05-12 Water reserver Capacity	m3	50m3	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type 05-16 Power to distribute	Pipe material, length	See below memo Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc.		
	05-17 Structure Type of water point (Fublic Faucet, FF)	no.	2	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6	
	05-20 Average of daily water consumption at a water point (PF	F) m3/day	13m3/day	
	05-21 Number of House Connection (HC)		153	
	05-22 Average of daily water consumption of House Connection(HC	m3/day	0.266m3/day	
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, Schr		15	
	05-24 Type of Business Connection (BC) Factory, School O5-25 Average of daily water consumption of Business Connection (BC)	ool, Gov. office, Hospitaletc.  m3/day	0.66m3/day	
	05-26 Other technical specimen	-) III3/day	0.00m3/day	
	32 20 Other teermiear specimen			
06	Operation and Maintenace			
	06-01 Organization's name		Segen water supply service	
		Regional, Zone, Enterpriceetc.	Municipality	ļ
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff 06-05 Number of the financial staff		Pump operation	
	06-06 Principal works of financial staff		Not grasp Not grasp	ļ
	<u>, , , , , , , , , , , , , , , , , , , </u>	.Point, House Connectionetc.	W. point, House connection	
	06-08 Water tariff rate	,		l
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L	
	House connection	Birr/m3	5.0birr/m3	
	Business connection	Birr/m3	ditto	ļ
	06-09 Average monthly income by water tariff	Birr/month	9,000birr/month	ļ
		vn, Zonal Cap. Reg. Capetc.	Pipes&fittings, Generator parts	<b> </b>
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Broken generator & pump	<b> </b>
		ganization, Gov., Donorsetc.		
	06-15 Other technical specimen			
l				

S-41 Segen

07			
	Problem of actual town water supply		
	07-01 Technical  Water source Ouantity, Oualityetc.	Water shortage	
	Water source Quantity, Qualityetc.  Water supply facility Decrepit, leakage, design failureetc	Design failure, Leakage from pipe lines	
	07-02 Finalcial		
	Management	Not grasped	
	Rate of water tarrif collection	Low	
	Personnel expenses	Low	
	Shortage of budget to execute operation & maintenace	Shortage budget for O&M	
	07-03 Other incidential, Special specimen		
	Increase in population to consume water coming from other towns, villagesetc  Change in industry increase factory, Tradingetc		
	Human conflict Ethnic, Administrativeetc		
	07-04 Other specimen	1111.	
	or or other specimen		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)	
	Town is on flat area		
00	N. I. de d. (F. Tr. M. d. IV		
09	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"		
	Refer to Chapter 4 Table 4.7		
10	Current Water Coverage (%) (by water consumption at faucets)	106%	
	(13m3*2PF+0.266m3*153HC+0.66m3*15BC)=76.6m3/day 34.1m3/20Lpcd.=3,830persons		
	Current Water Coverage (%) (by data of water source product))	?? %	
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=???persos ???persons/3626population=??%		
11	Water Potential (A / B / C / D / E)	C	
10	A TITLE (A / D / G / D / E) A Assisted D Des Course (C Cells Couls D) Only Des Course E New	Assessable I D / C	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	Approached B/C	
	Access road is Asphalt & Sub grade 42km from Konso. (=25+ 17km from Konso)		
13	Manpower Capability of Water Supply Management by Water Office point)	6	
		······································	
14	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
15	New Water Supply Plan		
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		
	generally flat terrains, however, construction works is required some ingenuities arround water	r sources	
		sources.	
16	Other Donors, NGO's	sources.	
16	Other Donors, NGO's	sources.	
	Other Donors, NGO's  Main Ethnic Group	Konso	
17	Main Ethnic Group		
17	Main Ethnic Group  Health conditions	Konso	1
17	Main Ethnic Group		,
17	Main Ethnic Group  Health conditions -1 Medical facilities in Town	Konso  Health Center, Private clinic, Drug store	;
17	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Konso  Health Center, Private clinic, Drug store 67	·
17	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824	;
17	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases persons / year	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768	;
17	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824	>
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17 18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases persons / year  Main economic activities	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768	;
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming	>>
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17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  pelechairman Mob Casher 0912992534	· · ·
17 18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  pelechairman Mob Casher 0912992534	>
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storemano (Town sketchetc.):	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  pelechairman Mob Casher 0912992534	>>
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17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema no (Town sketchetc.):    O5-15 Distribution Type   GIP 2"=676m   GIP 1*1/4"=2,708m   GIP 3/4"=700m	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  Delechairman Mob Casher 0912992534  In Mob. 0920989749	>
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema no (Town sketchetc.):	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  pelechairman Mob Casher 0912992534	>>
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema no (Town sketchetc.):    O5-15 Distribution Type   GIP 2"=676m   GIP 1*1/4"=2,708m   GIP 3/4"=700m	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  Delechairman Mob Casher 0912992534  In Mob. 0920989749	•
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema no (Town sketchetc.):    O5-15 Distribution Type   GIP 2"=676m   GIP 1*1/4"=2,708m   GIP 3/4"=700m	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  Delechairman Mob Casher 0912992534  In Mob. 0920989749	;
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema no (Town sketchetc.):    O5-15 Distribution Type   GIP 2"=676m   GIP 1*1/4"=2,708m   GIP 3/4"=700m	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  Delechairman Mob Casher 0912992534  In Mob. 0920989749	;
17 18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  Remarks:  Mr. Endalkachew Besha Ket Mr. Tezera Tefera Minicipal Mr. Gezhagn Dinku Storema no (Town sketchetc.):    O5-15 Distribution Type   GIP 2"=676m   GIP 1*1/4"=2,708m   GIP 3/4"=700m	Konso  Health Center, Private clinic, Drug store 67  Mararia 3,624  Dysentery 3,360  Typhoid 1,824 others 768  Trade, Farming  Delechairman Mob Casher 0912992534  In Mob. 0920989749	>

S-41 Segen



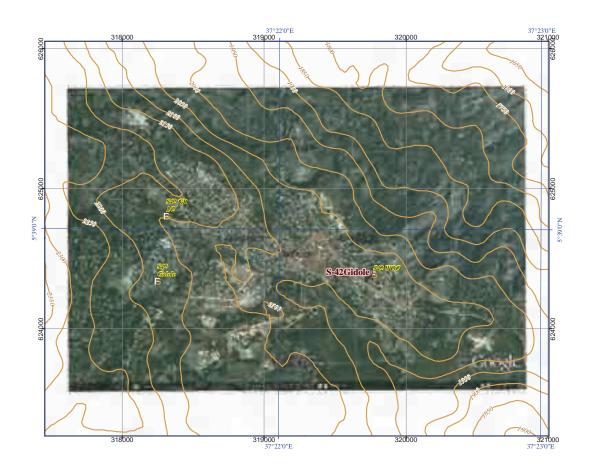
S-42 Gidole

	SNNPR			33 / 52	
	Name of small town :		Gidole	S- 42	
	Name of Woreda :		Darashe Spec		
	Name of Zone :		Gamo Gofa	SZ- 07	
		Profile items		Profile	!
01	Population				
		ale / female / total	by SNNPR	6,497 6,679 13,17	
	Woreda m percentage of Town in Woreda	ale / female / total	by Census 2007	70,076 72,602 142,67 9.29	
02		ΓM (Adindan)	Easting / Northig / Alt.	319680 624237 2,06	
03	Town Status	, , , , ,		Municipality	
,	Water Source			G : *A	
-	04-01 Water source 04-02 Well spec.	Dan	Type, No.	Spring*2nos. 0.5L/sec. ea. (Total 1.0L/sec.)	
	04-03 Method of water draw	Бер	Pump, Gravity	Gravity	
,	04-04 Pump Spec.		Type, Yield	nil.	
	04-05 Power source for motorized pur		Type, Kva	nil.	
3	04-06 Durartion of water draw (Opera 04-07 Water quality	tion hours)	daily hours, time Iron, Fluorideetc.	No.1 24hrs, No.2 06:00-09:00 Good	
	04-08 Other technical specimen		non, riuondeetc.	Good	
	Existing Water Supply Facilities			1050 1100 1	
	05-01 Established year		(Gregorian calendar)	1970 / 1994	
	05-02 Financial of implementation 05-03 Name of implementation (Proje	ct name)	Donor's name	SNNPR Tililo&Kamo development project	
	05-04 Intake Type	et name)		Spring Spring	
	05-05 Intake No.			2nos.	
	05-06 Conveyance Type (Water source	e ~ Reservoir)	Pipe material, length	PVC, 3", 3,000m	
į.	05-07 Power to convey 05-08 Water treatment		Pressure, Gravity Disinfection, Ironetc.	Gravity nil.	
	05-08 Water treatment capacity		m3/day	nil.	
5	05-10 Water reserver type		Туре	GR	
	05-11 Water reserver No.		no.	2nos.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pu	Ct Di-)	m3	50m3*1no., 41m3*1no. nil.	
,	05-13 Transmission Type (Booster pu 05-14 Power to transmit	mp Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity	nii.	
,	05-15 Distribution Type		Pipe material, length	See below memo	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (1				
	05-18 Number of water point (Public 05-19 Number of faucet at a water point (Public 05-19 Number of faucet at a water point (Public 05-18 Number of faucet at a water point (Public 05-18 Number of water point (Public 05-18 Number of water point (Public 05-18 Number of water point (Public 05-18 Number of water point (Public 05-18 Number of water point (Public 05-18 Number of water point (Public 05-18 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water point (Public 05-19 Number of water water point (Public 05-19 Number of water water point (Public 05-19 Number of water water point (Public 05-19 Number of water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water wa		no.	23 6FC*6PF, 4FC*8PF, 2FC*9PF	
	05-20 Average of daily water consum		m3/day	0.06m3/day	
	05-21 Number of House Connection (	HC)		486	
1	05-22 Average of daily water consumption		m3/day	0.166m3/day	
,	05-23 Number of Business Conection 05-24 Type of Business Connection (1		ol, Gov. office, Hospitaletc.	Not grasped	
	05-25 Average of daily water consumption			0.633m3/day	
	05-26 Other technical specimen				
0.5	0				-
	Operation and Maintenace 06-01 Organization's name			Gidole town water supply service	
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc		
	06-03 Number of thechnical staff			2	
	06-04 Principal works of technical sta	ff		Plumbing	
,	06-05 Number of the financial staff	C.F.		Water mater read Bill	
	06-06 Principal works of financial star 06-07 Categories of water tariff		Point, House Connectionetc.	Water meter read, Bill W. point, House connection	
	06-08 Water tariff rate	W.1	, rrouge connectionetc.		-
	Water point (Public faucet)		Birr/L, 20L	3.0birr/month/household	
	House connection		Birr/m3	1.0birr/m3	
	Business connection 06-09 Average monthly income by wa	iter tariff	Birr/m3 Birr/month	ditto 2,500birr/month	
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts	Oi	l filter, Fuel filter, Pipesetc	Pipes&fittings	
	06-12 Method in case of serious repai		office, Private companyetc	Mr. Mohamed Surur Land adm. Coordinator Mob. 091004023	6,
	06-13 Principal serious repair with 5- 06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.	Broken pipes (PVC) Municipality	
	06-15 Other technical specimen	by Orga	anization, Gov., Donoisetc.	ividincipanty	
	Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Specia				

S-42 Gidole

07	Problem of actual town water sup	oly				
	07-01 Technical	pry				
	Water source		Quantity, Qualityetc.	Water shorts	ge (decreased water yield)	
	Water supply facility		Decrepit, leakage, design failureetc		go (deereased water freid)	
	07-02 Finalcial		Secrepti, icanago, acoign ianaic mete	<u>8</u>		
	Management			Not grasped		
	Rate of water tarrif collection	on		low		
	Personnel expenses			low		
	Shortage of budget to execu	ite operation & maint	enace	Shortage bud	get for O&M	
	07-03 Other incidential, Special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special special speci				8	
	Increase in population to co		oming from other towns, villagesetc	nil.		
	Change in industry		increase factory, Tradingetc			
	Human conflict		Ethnic, Administrativeetc			
	07-04 Other specimen					
	or or other specimen					
08	Geographical condition	(Slope on mountaion	, bottom of valley, Top of ridgeetc.	)		
	Rugged land with mountainous sr		, , , , , , , , , , , , , , , , , , , ,	<u></u>		
09	Necessary Institution (Facility, M	aterial)				
0)	Refer to Chapter 4 "Table 4.7"	ateriar)				
	Training of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st					
10	Current Water Coverage (%) (by	water consumption at	faucets)	I	34%	
10			3/day 89.7m3/20Lpcd.= 4,485persons	4 485persons		
	Current Water Coverage (%) (by			r, 100 per sons /	33%	
			product)) Lcd=4320persos 4320persons/13176	nonulation 2		
11	Water Potential (A / B / C / D / E		4520persons/131/6	рориганоп=3. Г	3% C	
11	water Potential (A/B/C/D/E	5)			C	
12	Aibility (A / B / C / B / E)	A - A amhalt/D-Daga Car	urse/C=Sub Grade/D=Only Dry Season/E=Not	t Ammuooohod	B / B	
12	Accessibility (A/B/C/D/E)			Approached	В / В	·
	1		m /B= >3~6m / C= 1~3m / D= <1m			
	Access road is Asphalt & Base co					
13	Manpower Capability of Water Su	ipply Management by	Water Office (point)	L	11	
14	Dgree of urgency (A / B / C / D /	E)		L		
	Refer to Chapter 5 & 7					
16	slope, construction works is required. Other Donors, NGO's	red some ingenuities	arround water sources.			
	Refer to the Chapter 6					
17	Refer to the Chapter 6  Main Ethnic Group			Derashe, Am	hara	
17	Refer to the Chapter 6  Main Ethnic Group			Derashe. Am	hara	
	Main Ethnic Group			Derashe. Am	hara	
	Main Ethnic Group  Health conditions					Drug
	Main Ethnic Group  Health conditions -1 Medical facilities in Town	n Town	km		hara alth Center, Private clinic,	Drug
	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from		km persons / year	Hospital, Hea	alth Center, Private clinic,	Drug
	Main Ethnic Group  Health conditions -1 Medical facilities in Town		km persons / year	Hospital, Hea	alth Center, Private clinic,	Drug
	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from			Hospital, Hea	alth Center, Private clinic,	Drug
	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from			Hospital, Hea	alth Center, Private clinic,	Drug
18	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from			Hospital, Hea	alth Center, Private clinic, 8,818 4,969 555	Drug
18	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born			Hospital, Hea Mararia Dysentery Typhoid	alth Center, Private clinic, 8,818 4,969 555	Drug
18	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities			Hospital, Hea Mararia Dysentery Typhoid	alth Center, Private clinic, 8,818 4,969 555	Drug
18	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments:	diseases		Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555	Drug
18	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments:	diseases	persons / year	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555	Drug
18	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments:	diseases	persons / year	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555	Drug
18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments:  Town population is more than 13,	diseases	persons / year	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555	Drug
18 19 20	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments:	diseases	persons / year	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555	Drug
18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments:  Town population is more than 13,	diseases  000 persons in accord	persons / year  lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555 ng, others	Drug
18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments:  Town population is more than 13,	000 persons in accord	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:	000 persons in accord	persons / year  lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments:  Town population is more than 13,	000 persons in accord	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:	000 persons in accord	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):	000 persons in accord  Mr. Adane Setota V  Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic, 8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):	000 persons in accord  Mr. Adane Setota V  Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
19 20 21	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug
18 19 20	Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from  -3 Main patients of water born  Main economic activities  Particular comments: Town population is more than 13,  Remarks:  no (Town sketchetc.):  05-15 Distribution Type  GIP 3"=1,500m	Mr. Adane Setota V Mr. Shita Shio H/G	persons / year lance with list of the candidate small to	Hospital, Hea Mararia Dysentery Typhoid Trade, Wavin	8,818 4,969 555 ng, others	Drug

S-42 Gidole



S-43 Kibat

	SNNPR		34 /	
	Name of small town :	Kibat	S- 4	3
	Name of Woreda :	Silti	SW- 3	2
	Name of Zone :	Silte	SZ- 0	8
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	2,917 2,759	5,676
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	87,583 89,740	177,323 3.2%
02.	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	426149 887107	2,108
	Town Status	Easting / Horang / Hit.	Municipality	2,100
04	Water Source			
	04-01 Water source	Type, No.	Well*2nos.	
	04-02 Well spec. 04-03 Methor of water draw	Depth., Casing Dia., S.W.L Pump, Gravity	see below memo Pump	
	04-04 Pump Spec.	Type, Yield	Motorized pump	
	04-05 Power source	Type, Kva	Commercial Elec. / stand by Gen	erator (broker
	04-06 Durartion of water draw	daily hours, time	07:00-13:00, 15:00-23:00 (14hrs	./day)
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen		nil.	
05	Existing Water Supply Facilities			
0.0	05-01 Established year	(Gregorian calendar)	1985	
	05-02 Financial of implementation	Donor's name	Contral government	
	05-03 Name of implementation		Kibat town water project	
	05-04 Intake Type		Well 2	
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP & PVC, 2"~3", 6,264m (see	helow)
	05-07 Power to convey	Pressure, Gravity	Pressure	below)
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Туре	GR, ER	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	GR*2now., ER*4nos. GR 50m3*2nos., ER 10m3*4nos.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	•
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	GIP, 1"~3", 15,620m (see below)	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF)	RC, Masonry, Pipeetc. no.	Mansonry, Pipes 16	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6, 4 nos.	
	05-20 Average of daily water consumption at a water point (		3.05m3	
	05-21 Number of House Connection (HC)		553	
	05-22 Average of daily water consumption of House Connection(F	IC) m3/day	4.52m3/day	
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, Sc	chool, Gov. office, Hospitaletc	33	
	05-25 Average of daily water consumption of Business Connection (		52.8L.day	
	05-26 Other technical specimen	ino, day	- 2.02.day	
06	Operation and Maintenace			
	06-01 Organization's name 06-02 Type of organization	Regional, Zone, Enterpriceetc.	Town water supply centre	
	06-03 Number of thechnical staff	Regional, Zone, Enterpriceetc	5	
	06-04 Principal works of technical staff		Pump operation, plumbing	
	06-05 Number of the financial staff		5	
	06-06 Principal works of financial staff		Water meter counting, Billing	
	<u> </u>	W.Point, House Connectionetc.	W. Poinat, House connection	
	06-08 Water tariff rate Water point (Public faucet)	Birr/L, 20L	0.1 birr/20L	
	House connection	Birr/m3	see below	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	14,000 bir,month.	
		own, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair by Regio 06-13 Principal serious repair with 5-10 years	nal office, Private companyetc	Zonal, Regional office Water supply service office own.	
		Organization, Gov., Donorsetc.		
	06-15 Other technical specimen	, , , , , , , , , , , , , , , , , , , ,		

S-43 Kibat

07	Problem of actual town water supply 07-01 Technical		
	Water source Quantity, Qualityetc.	Shortage water quantity	
	Water supply facility  Water supply facility  Decrepit, leakage, design failureetc		
	07-02 Finalcial	Design failure	
	Management	High fuel cost	
	Rate of water tarrif collection	Tingii tuoi cost	
	Personnel expenses		
	Shortage of budget to execute operation & maintenace		
ii.	07-03 Other incidential, Special specimen		7
	Increase in population to consume water coming from other towns, villagesetc	Increase population	
ı	Change in industry increase factory, Tradingetc		
	Human conflict Ethnic, Administrativeetc		
	07-04 Other technical specimen		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)	
	Accessibility; Kibat town is located along national road (Asphalt pavement), where is bottom	slope on montain.	
11			
09	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
10	C W C (0/) A C C C C	1770	$\vdash$
10	Current Water Coverage (%) (by water consumption at faucets)		!
	(3.05m3*16PF+4.52*33HC+0.052m3*34BC)=199.7m3/day 199.7m3/20Lpcd.=9986persons		
	Current Water Coverage (%) (by data of water source product)) ((??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/5676population	??%	
	Water Potential $(A/B/C/D/E)$	1= / /%	_
11	water Potential (A/B/C/D/E)	В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=1	Not Approached A / A	$\dashv$
12	A=Road Width $> 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$	Not Approached A / A	
	Access road is Asphalt road 13km from Butajira. * Refer to Chapter 5 "Table 5-7: Categories	of accessibility"	$\dashv$
12	Manpower Capability of Water Supply Management by Water Office point)	18	_
1.3			
13	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	18	
13	Sample Company of Macroscopy, Management of Macroscopy	10	
		10	
	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7	10	
	Dgree of urgency (A / B / C / D / E)	10	
14	Dgree of urgency (A / B / C / D / E)		
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7 New Water Supply Plan		
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		
14	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.		
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		
14	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.		
14 15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's	chnology. The small town is on the generally fla	
14 15	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.		
14 15 16	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group	chnology. The small town is on the generally fla	
14 15 16	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions	chnology. The small town is on the generally flaters.	
14 15 16	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	chnology. The small town is on the generally fla-	
14 15 16	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12	
14 15 16	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Silte  Health Center, Private clinic, Drug store 12  Dysentery 7,000	
14 15 16	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Silte  Health Center, Private clinic, Drug store  12  Dysentery 7,000  Malaria 5,000	
14 15 16 17 18	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Silte  Health Center, Private clinic, Drug store 12  Dysentery 7,000 Malaria 5,000 Typhoid 500	
14 15 16 17 18	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km	Silte  Health Center, Private clinic, Drug store  12  Dysentery 7,000  Malaria 5,000	
14 15 16 17 18	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Silte  Health Center, Private clinic, Drug store 12  Dysentery 7,000 Malaria 5,000 Typhoid 500	
14 15 16 17 18	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	
14 15 16 17 18	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	
14 15 16 17 18	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The watersupply facility has been relatively good managed by the Woreda water office and the	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	
14 15 16 17 18 19 20	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: The watersupply facility has been relatively good managed by the Woreda water office and the private water connections. Morale of operators of the pump station is high.	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	
14 15 16 17 18 19 20	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: The watersupply facility has been relatively good managed by the Woreda water office and the private water connections. Morale of operators of the pump station is high.  Remarks:	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	
14 15 16 17 18 19 20	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: The watersupply facility has been relatively good managed by the Woreda water office and the private water connections. Morale of operators of the pump station is high.  Remarks: (1) Written records, even if it is by hand	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	
14 15 16 17 18 19 20	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecterrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: The watersupply facility has been relatively good managed by the Woreda water office and the private water connections. Morale of operators of the pump station is high.  Remarks:	chnology. The small town is on the generally fla- Silte  Health Center, Private clinic, Drug store 12 Dysentery 7,000 Malaria 5,000 Typhoid 500 Trade, Farming	

S-43 Kibat

04-02 Well spec.					
Well No.1; Esth	osh on 1985 GL-119.1m / Cas	sing dia.6" / SWL GL-55.31	n / ??L/sec. / 14kw		
Well No 2: Esth	osh on 1985 GL-172.6m / Cas	sing dia.6" / SWL GL-50.0r	n / ??L/sec. / 18kw /	with stand by generat	or 23.5kva (broke
, 130					
05-06 Conveyance pip					
		1			

#### 05-15 Distribution pipe (GIP, PVC)

3" = 600m 1*1/2"= 4,084m

2*1/2"= 1,400m 1"= 1,600m

2"= 6,236m

#### 05-24 Type of business connection

School*5, Gov.*13, Health Cntr.*1, Mosque*4, Chrch*3, Shop*8

Total 34

06-05 Water tariff

 $0 \sim 5 \text{m} 3 = 3.25 \text{birr/m} 3$  $11\sim30\text{m}3 = 3.75\text{birr/m}3$  $6 \sim 10 \text{m}3 = 3.50 \text{birr/m}3$  $31m3 \sim = 4.00birr/m3$ 

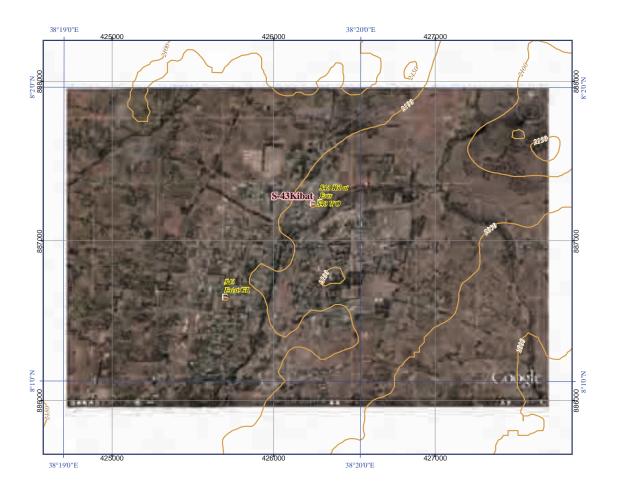
Water meter lease:

PVC 1*1/2"= 2,000m

Dia. 1*1/4" = 7.0birr/month Dia. 1*1/2" = 8.0birr/month Dia. 1/2" = 3.0birr/month Dia. 3/4" = 4.0birr/month Dia. 1" = 5.0birr/month Dia. 2" = 12.0birr/month

#### 10 Remarks

- (3) The 2 assistants: one has information on water supply facilities written in his notebook; the other has written records where he can search for information on income, water consumption, list of service users.
- (4) Separate shed as own storage for the parts and fuel
- (5) The negative point: financially weak by their own admission, expenditures exceed income. (Speculating on the possible motives, the other towns up to now use water points as "cash cows" placing one water seller in each water point. Kibet, on the contrary, has privatized water points, which may induce contract private companies to under-report water consumption at water points. Water consumption at each water point appears to be low, even though this may be due to the high number of water points).



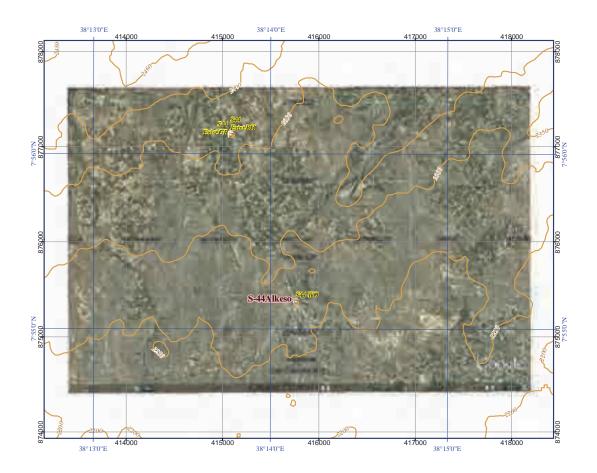
S-44 Alkeso

	SNNPR				5 / 52
	Name of small town		Alkeso		- 44
	Name of Woreda	:	Silti	SW	- 32
	Name of Zone	•	Silte	SZ	- 08
		Profile items		Profile	
01	Population				
	Town	male / female / total	by SNNPR	506 52	
	Woreda	male / female / total	by Census 2007	87,583 89,74	
02	percentage of Town in Wo Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	415670 87524	9 2,283
_	Town Status	O I W (Adilidali)	Easting / Norting / Ait.	Town Administration	2,263
	Water Source			10wii 7 kainimistration	
	04-01 Water source		Type, No.	Well * 1no.	
	04-02 Well spec.	Γ	Depth., Casing Dia., S.W.L, Yield		1.5m, 5L/sec.
	04-03 Method of water draw		Pump, Gravity	Pump	
	04-04 Pump Spec.	1	Type, Yield	Motorized pump (3.9kw Commercial Elec. With Standy	
	04-05 Power source for motorize 04-06 Durartion of water draw (C		Type, Kva daily hours, time	12:00~15:30, 20:00~23:	
	04-07 Water quality	peration nours)	Iron, Fluorideetc.	Good	30 (/IIIs./day)
	04-08 Other technical specimen		Ton, Tuorido meter		
	*				
05	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1999	
	05-02 Financial of implementation		Donor's name	SNNPR	
	05-03 Name of implementation (1) 05-04 Intake Type	Project name)		Alkeso 01 water supply Well	pı
	05-05 Intake No.			lno.	
	05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	GIP, 3", 30m	
	05-07 Power to convey		Pressure, Gravity	Pressure	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Туре	GR	*
	05-11 Water reserver No.		no. m3	1 no. 50m3	
	05-12 Water reserver Capacity 05-13 Transmission Type (Boosto	er numn Stn. ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	or pump still. Reservoir)	Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	See below memo	
	05-16 Power to distribute		Pressure, Gravity	Gravity	
	05-17 Structure Type of water po		RC, Masonry, Pipeetc.		
	05-18 Number of water point (Pu		no.	12 (2/12 are not function	1)
	05-19 Number of faucet at a water 05-20 Average of daily water con		no. PF) m3/day	6FC*7PF, 2FC*5PF 6m3/day	
	05-20 Average of daily water cor 05-21 Number of House Connect		rr) III3/day	93	
	05-22 Average of daily water consu		IC) m3/day	0.67m3/day	
	05-23 Number of Business Coned			19	
	05-24 Type of Business Connecti		hool, Gov. office, Hospitaletc.		afé*14
	05-25 Average of daily water consum	ption of Business Connection (I	BC) m3/day	0.83m3/day	
	05-26 Other technical specimen				
06	Operation and Maintenace				
00	06-01 Organization's name			Alkeso water committee	
	06-02 Type of organization		Regional, Zone, Enterpriceetc		
	06-03 Number of thechnical staff			2	
	06-04 Principal works of technica			Pump operation, Plumbi	nį
	06-05 Number of the financial sta			10	
	06-06 Principal works of financia		WB: W G	Water meter read, Bill	.:
	06-07 Categories of water tariff 06-08 Water tariff rate		W.Point, House Connectionetc.	W. Point, House connec	uon
	Water point (Public faucet)	)	Birr/L, 20L	0.1birr/20L	
	House connection	,	Birr/m3	3.0birr/m3	
	Business connection		Birr/m3	ditto	
	06-09 Average monthly income b		Birr/month	4,000birr/month	
	06-10 Procurement of spare parts	at To	own, Zonal Cap. Reg. Capetc.	Addis Ababa, Butajira, V	Worabel
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious 1		nal office, Private companyetc		
	06-13 Principal serious repair wit 06-14 Fund for above 6-09, 6-10		Organization, Gov., Donorsetc.	Pump control panel Community	
	06-15 Other technical specimen	by C	71541112411011, OOV., DUII015Ell.	Community	
	openiion				

S-44 Alkeso

07	Problem of actual town water supply			
	07-01 Technical			ļ
		Shortage wat		!
	Water supply facility Decrepit, leakage, design failureetc	Leakage fron	n pipe lines	
	07-02 Finalcial	C1 :11 C + CC		ļ
	Management  Rate of water tarrif collection	Skill of staff Delay bill co		ļ
	Personnel expenses	nil.	inection	ļ
	Shortage of budget to execute operation & maintenace		oudget for O&M	
	07-03 Other incidential, Special specimen	Diffinge of t	Juaget 101 Oce.11	<del> </del>
	Increase in population to consume water coming from other towns, villagesetc	Not grasp		
	Change in industry increase factory, Tradingetc.			1
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)  Slope of mountain			ļ
	Stope of mountain			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	C (W) (C (O)) (A (C (O))		6720/	
10	Current Water Coverage (%) (by water consumption at faucets) (6m3*10PF+0.67m3*93HC+0.83m3*19BC)=138.1m3/day 138.1m3/20Lpcd.=6,905persons	6.0050000	672%	!
	Current Water Coverage (%) (by data of water source product))	0,903persor	700%	!
	((5L)*3600sec.*8hrs)=144000L/day 144000/20Lcd=7200persos 7200persons/1028population	ion-700%	70070	•
11	Water Potential $(A/B/C/D/E)$	1011-70070	В	1
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A/B	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access road is Asphalt road 29km from Butajira. * Refer to Chapter 5 "Table 5-7: Categories	of accessibili		
13	Manpower Capability of Water Supply Management by Water Office point)		15	<u> </u>
14	Dgree of urgency (A/B/C/D/E)			
17	Refer to Chapter 5 & 7			
15	New Water Supply Plan			]
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech	hnology. The	small town is on the	
	generally flat terrains, construction work is not difficult.	23		
16	Other Donors, NGO's			
10	Siller Bollots, 17000			-
		***************************************		
17	Main Ethnic Group	Silte		
- 10				
18	Health conditions	D	TT 1.1	ļ
	-1 Medical facilities in Town -2 Nearest other facilities from Town km	75	e, Health post	ļ
		Mararia	200	-
		Typhoid	120	
19		Trade, Farmi	ing, others	
20	Particular comments :			<b></b>
	Town population is less than 2,000 persons in accordance with list of the candidate small town	S.		<del> </del>
21	Remarks:			
Men	no (Town sketchetc.):			
ļ	05-15 Distribution Type			7
	GIP 2*1/2"=2,500m PVC 1*1/2"=1,110m			
	GIP 2"=2,280m PVC 1"= 1,210m Total L=7,100m			
				J
	-			
ļ	-			
l				

S-44 Alkeso



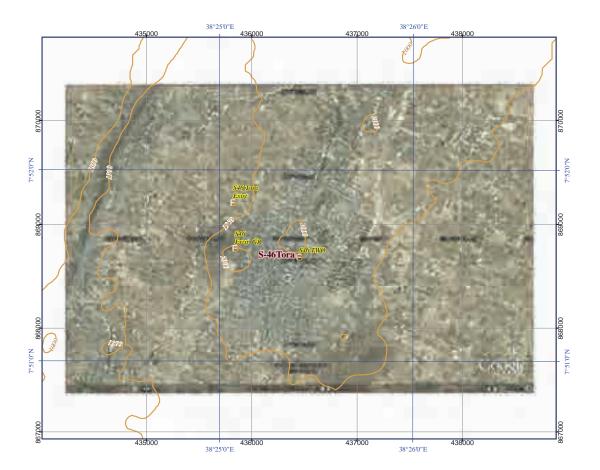
S-46 Tora

Name of Small town   Tora   S- 46	Name of Woreda		SNNPR		36	/ 52
Profile items	Population			Tora	S-	46
Population	Profile items		Name of Woreda :	Lanifaro (Lanif	uro) SW-	33
10   Population	Population		Name of Zone :	Silte	SZ-	08
Town   male / Female / total   by SNNPR   4,896   4,267   9,165   16,091   percentage of Town in Woreda   male / Female / total   by Census 2007   58,834   57,287   116,091   percentage of Town in Woreda   world with the percentage of Town in Woreda   Woreda Capital   World Status   Worsda Capital   Worsda Capital   Worsda Capital   Worsda Capital   Worsda Capital   Worsda Capital   World Status   World St	Town   male   female   total   by SNNPR     4.896   4.		Profile items		Profile	!
Woreda	Woreda	01	•			
Percentage of Town in Woroda   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%   1.79%				-		
10   Town Coordination	O2   Town Coordination			by Census 2007	38,834 37,237	
04-00 Water Source	044   Water source	02		Easting / Northig / Alt.	436358 868558	
04-01 Water source	04-01 Water source   Cype, No.   Well*2nos.	_			Woreda Capital	
04-02 Well spec.   Depth., Casing Dia., S.W.L., Yield G.—240n /251m, Dia.076*, Gl. 2137?m	04-02 Well spee.  Depth, Casing Dia, S.W.L, Yield G240m / 251m, Dia of Unity O4-04 Pump Spee.  D4-03 Method of water draw  D4-04 Pump Spee.  D4-05 Power source for motorized pump  O4-05 Power source for motorized pump  O4-06 Durartion of water draw (Operation hours)  O4-07 Water quality  O4-07 Water quality  O4-08 Other technical specimen  D5-01 Established year  O5-01 Established year  O5-02 Financial of implementation  O5-02 Financial of implementation  O5-03 Name of implementation (Project name)  O5-03 Name of implementation (Project name)  O5-04 Intake Type  O5-05 Intake No.  O5-05 Occonveyance Type (Water source ~ Reservoir)  O5-05 Intake No.  O5-06 Conveyance Type (Water source ~ Reservoir)  O5-09 Water treatment  O5-09 Water treatment  O5-09 Water treatment capacity  O5-10 Water reserver Type  O5-11 Water reserver Type  O5-12 Intaker reserver Capacity  O5-13 Transmission Type (Booster pump Stn. ~ Reservoir)  O5-14 Pipe material, length  O5-15 Distribution Type  O5-16 Intaker reserver Capacity  O5-15 Siribution Type  O5-16 Fixer reserver Capacity  O5-16 Fixer reserver Capacity  O5-17 Structure Type of water point (Public Faucet, PF)  O5-18 Number of water point (Public Faucet, PF)  O5-19 Number of water point (Public Faucet, PF)  O5-19 Number of Swater at a water point (Public Faucet, PF)  O5-19 Number of Gally water consumption at a water point (PP)  O5-20 Average of daily water consumption at a water point (PP)  O5-21 Number of House Connection (HC)  O5-22 Average of daily water consumption of Business Connection (HC)  O5-23 Type of Gally water consumption of Business Connection (HC)  O5-24 Type of Gally water consumption of Business Connection (HC)  O5-25 Average of daily water consumption of Business Connection (HC)  O5-24 Type of Gally water consumption of Business Connection (HC)  O5-25 Average of daily water consumption of Business Connection (HC)  O5-25 Average of daily water consumption of Business Connection (HC)  O5-26 Operation and Maintenace  O6-06 Operation and Maintenace  O6-07 Average mo			Type No	Well*2nos	
O4-04 Pump Spec.   Type, Yield   Motorized pump   Type, Kva   Commercial Elec. (Unstable)	O4-04 Pump Spec.   Type, Yield   Motorized pump   O4-04 Pump Spec.   O4-05 Power source for motorized pump   Type, Kva   Commercial Elec. (U)   O4-06 Durartion of water draw (Operation hours)   daily hours, time   O6-00-12:00, 13:30-2:   O4-08 Other technical specimen   O5-01 Established year   Good   O5-02 Financial of implementation   O5-02 Financial of implementation   Donor's name   UNICEF   O5-02 Financial of implementation (Project name)   Donor's name   UNICEF   Tora town water supp   O5-03 Name of implementation (Project name)   O5-03 Name of implementation (Project name)   O5-04 Intake Type   Well   O5-05 Intake No.   2   O5-05 Intake No.   O5-06 Conveyance Type (Water source ~ Reservoir)   Pipe material, length   PVC, 3", 400m	ļ.		Depth., Casing Dia., S.W.L, Yield		GL-213/??m
O4-05 Power source for motorized pump	D4-05 Power source for motorized pump   Type, Kva   Commercial Elec t.U	-				
O4-06 Durartion of water draw (Operation hours)   daily hours, time   O6:00-12:00, 13:30-22:30 (15hrs/day)   O4-07 Water quality   Iron, Fluorideetc.   Good	04-06 Durartion of water draw (Operation hours) 04-07 Water quality 04-08 Other technical specimen  05 Existing Water Supply Facilities 05-01 Established year 05-01 Established year 05-02 Famorical of implementation 05-03 Name of implementation 05-03 Name of implementation (Project name) 05-04 Intake Type 05-04 Intake Type 05-05 Intake No. 05-06 Conveyance Type (Water source – Reservoir) 05-06 Conveyance Type (Water source – Reservoir) 05-08 Water treatment 05-09 Water treatment 05-09 Water treatment 05-09 Water reserver type 05-10 Water reserver type 05-11 Water reserver type 05-11 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. – Reservoir) 05-15 Power to distribute 05-15 Power to distribute 05-15 Power to distribute 05-15 Power to distribute 05-15 Number of faucet at a water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-23 Number of Business Connection (BC) 05-23 Number of Business Connection (BC) 05-23 Number of Business Connection (BC) 05-23 Number of thechnical specimen 06-02 Type of Business Connection (BC) 06-03 Number of thechnical staff 06-04 Project water for the Connection of Business Connection (BC) 06-05 Number of thechnical staff 06-04 Project water for the Connection of Business Connection (BC) 06-06 Number of the King and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mater and Mate					yla)
D4-07 Water quality	04-07 Water quality 04-08 Other technical specimen  15 Existing Water Supply Facilities 05-01 Established year (Gregorian calendar) 05-02 Financial of implementation 05-03 Name of implementation Donor's name 05-04 Intake Type 05-05 Intake No. 05-05 Intake No. 05-06 Noveryance Type (Water source – Reservoir) 05-06 Very Cart, 400m 05-07 Power to convey 05-08 Water treatment 05-09 Water treatment 05-09 Water treatment 05-01 Water reserver Vppe 05-10 Water reserver Vppe 05-10 Water reserver Vppe 05-11 Water reserver Vppe 05-12 Water reserver No. 05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Water testing the Vpc (Sar) 05-15 Distribution Type 05-15 Distribution Type 05-16 Si Distribution Type 05-16 Nover to distribute 05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF) 05-19 Number of water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PP) 05-20 Average of daily water consumption of House Connection(HC) 05-22 Average of daily water consumption of Business Connection (BC) 05-23 Number of Business Connection (BC) 05-23 Number of Business Connection (BC) 05-23 Number of Business Connection (BC) 05-23 Number of Business Connection (BC) 05-24 Operation and Maintenace 06-01 Organization's name 06-02 Type of Business Connection (BC) 05-05 Signification of Periodic Average of daily water consumption of Business Connection (BC) 05-06-08 Number of the Inancial staff 06-07 Categories of water tariff 06-08 Verrage of faily water consumption of Business Connection (BC) 05-08 Operation and Maintenace 06-01 Organization's name 06-02 Type of organization 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09 Average on the financial staff 06-09					
Existing Water Supply Facilities  05-01 Established year (Gregorian calendar)  05-02 Financial of implementation Donor's name  UNICEF  05-03 Name of implementation (Project name)  05-04 Intake Type  05-05 Intake No.  05-06 Conveyance Type (Water source ~ Reservoir)  05-06 Conveyance Type (Water source ~ Reservoir)  05-07 Power to convey  Pressure, Gravity  05-08 Water treatment  05-09 Water treatment  05-09 Water treatment Disinfection, Irontet.  05-10 Water reserver No.  05-11 Water reserver Vype  05-11 Water reserver Capacity  05-12 Water reserver Capacity  05-13 Water reserver No.  05-14 Power to transmist Pressure, Gravity  05-15 Power to distribute  05-16 Power to distribute  05-17 Structure Type (Booster pump Stn. ~ Reservoir)  05-18 Power to distribute  05-19 Pressure, Gravity  05-11 Fower to distribute  05-19 Number of faucet at a water point (Public Faucet, PF)  05-18 Number of Mater point (Public Faucet, PF)  05-19 Number of Buscies Connection (HC)  05-20 Average of daily water consumption at a water point (PF)  05-21 Number of Buscies Connection (HC)  05-22 Average of daily water consumption of House Connection (HC)  05-23 Type of Operations in Standard (Pack)  05-24 Type of Operations in Regional, Zone, Enterpriceetc  06-00 Type of organization Regional Staff  06-05 Number of the chinical staff  06-05 Number of the chinical staff  06-06 Principal works of tenhical staff  06-07 Number of the chinical staff  06-08 Water tariff rate  Water general Mater at a House Connection  Water meter rading, Billig  06-09 Average monthly income by water tariff  Water meter rading, Billig  06-00 Average monthly income by water tariff  06-00 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the chinical staff  06-09 Number of the c	Existing Water Supply Facilities  05-01 Established year (Gregorian calendar)  05-02 Financial of implementation  05-03 Name of implementation (Project name)  05-04 Intake Type  05-05 Intake No.  05-06 Noveyance Type (Water source – Reservoir)  05-07 Power to convey  05-08 Vater treatment  05-09 Water treatment  05-09 Water treatment point (Public Faucet, PF)  05-12 Water reserver No.  05-11 Water reserver No.  05-12 Water reserver No.  05-12 Water reserver No.  05-15 Intaker reserver No.  05-15 Intaker reserver No.  05-15 Intaker reserver No.  05-15 Intaker reserver No.  05-15 Water reserver No.  05-15 Water reserver No.  05-16 Water reserver No.  05-17 Water reserver No.  05-18 Water reserver (Apacity m3/day nil.  05-19 Nounce of Marce of Marce (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-19 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  05-10 Water reserver (No.  06-10 Water re					(,
05-01 Established year   Gregorian calendary   1996	05-01 Established year   Circgorian calendary   1996	[	04-08 Other technical specimen			
05-01 Established year   Gregorian calendary   1996   05-02 Financial of implementation   Donor's name   UNICEF   05-03 Name of implementation (Project name)   Tora town water supply project   05-05 Intake No.   2	OS-01 Established year   OS-02 Financial of implementation   Donor's name   UNICEF	05	Evicting Water Supply Excilities			
Donor's name   UNICEF	OS-02 Financial of implementation   Donor's name   UNICEF			(Gregorian calendar)	1996	
05-04 Intake Type   05-05 Intake No.   2   05-06 Conveyance Type (Water source ~ Reservoir)   Pipe material, length   PVC, 3", 400m   05-07 Power to convey   Pressure, Gravity   Pressure   05-08 Water treatment   Disinfection, Iron etc.   nil.   nil.   05-09 Water treatment capacity   m3/day   nil.     05-10 Water reserver type   Type   GR   GR*3nos.   05-10 Water reserver type   Type   GR   GR*3nos.   05-12 Water reserver No.   no.   GR*3nos.   05-12 Water reserver Capacity   m3   GR 25m3* Ino., GR 10m3*2nos.   05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.   05-15 Distribution Type   Pressure, Gravity   nil.   05-15 Distribution Type   Pipe material, length   05-15 Distribution Type   Pipe material, length   05-15 Distribution Type   Pipe material, length   GIP, 1"~2"1/2", 4,900m (see below)   05-15 Distribution Type   Pipe material, length   Gravity   05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipe etc.   Massonry, Pipe   05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)   05-19 Number of fluevet at a water point (PbF)   no.   6/4     05-20 Average of daily water consumption of House Connection(HC)   05-22 Average of daily water consumption of House Connection(HC)   05-23 Number of Business Connection (BC)   Factory, School, Gov. office, Hospital etc   School*1, Gov.*5, Health Catre*1, Mosque*4   05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day   05-26 Other technical specimen   Community water supply service   06-03 Number of the chinical staff   Pump operation, plumbing   06-04 Principal works of financial staff   Pump operation, plumbing   06-06 Principal works of technical staff   Pump operation, plumbing   06-06 Principal works of technical staff   Pump operation, plumbing   06-09 Number of the financial staff   Pump operation, plumbing   06-09 Average monthly income by water tariff   W.Point, House Connection etc.   W. Point, House Connection   Water poi	05-04 Intake Type   05-05 Intake No.   2   05-06 Conveyance Type (Water source ~ Reservoir)   Pipe material, length   PVC, 3", 400m   05-07 Power to convey   Pressure, Gravity   Pressure   05-08 Water treatment   Disinfection, Ironetc.   nil.   05-09 Water treatment capacity   m3/day   nil.   05-10 Water reserver type   Type   GR   05-11 Water reserver No.   no.   GR*3nos.   GR*3nos.   05-12 Water reserver Capacity   m3/day   nil.   05-15 Power to transmit   Pressure, Gravity   nil.   05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.   05-14 Power to transmit   Pressure, Gravity   nil.   05-15 Distribution Type   Pipe material, length   nil.   05-16 Power to distribute   Pressure, Gravity   nil.   05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)   05-19 Number of faucet at a water point (Public Faucet, PF)   no.   6 / 4   05-20 Average of daily water consumption at a water point (PF)   m3/day   66L/day   05-21 Number of Business Connection (HC)   dos 22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day   05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day   05-23 Average of daily water consumption of Business Connection (BC)   m3/day   06L/day   05-24 Type of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc.   School*1, Gov. *5, Health   05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day   06-04 Principal works of technical staff   Pump operation, plum   06-05 Number of the financial staff   W.Point, House Connectionetc.   06-06 Principal works of technical staff   W.Point, House Connectionetc.   06-08 Water tariff rate   Water point (Public faucet)   Birr/m3   ditto   06-09 Average monthly income by water tariff   W.Point, House Connectionetc.   06-01 Principal works of financial staff   Water meter pipe fitt   06-09 Average mont	Ī	05-02 Financial of implementation		UNICEF	
05-05 Intake No.   05-06 Conveyance Type (Water source ~ Reservoir)   Pipe material, length   PVC, 3", 400m	05-05 Intake No.   05-06 Conveyance Type (Water source ~ Reservoir)   Pipe material, length   PVC, 3", 400m   Pos-07 Dower to convey   Pressure, Gravity   Pressure   05-08 Water treatment   Disinfection, Ironetc.   nil.   nil.   05-10 Water reserver type   Type   GR   05-11 Water reserver type   Type   GR   05-11 Water reserver type   Type   GR   05-12 Water reserver Capacity   m3   GR 25m3*lno., GR 1   05-14 Power to transmit   Pressure, Gravity   nil.   05-15 Distribution Type   Pipe material, length   nil.   05-15 Distribution Type   Pipe material, length   GIP, 1"-2*1/2", 4,900   05-16 Power to distribute   Pressure, Gravity   05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Gravity   05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)   05-19 Number of faucet at a water point (Public Faucet, PF)   no.   16 (4 os. broken)   05-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day   05-21 Number of Busciet at a water point (Pb)   GS-22 Average of daily water consumption of House Connection(HC)   m3/day   05-23 Number of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health   05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day   05-24 Type of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health   05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day   05-26 Other technical staff   Pump operation, plum   06-04 Principal works of technical staff   Pump operation, plum   06-05 Number of the chinical staff   Pump operation, plum   06-09 Number of the financial staff   Pump operation, plum   06-09 Average monthly income by water tariff   W.Point, House Connectionetc   Water meter rading, E   06-09 Average monthly income by water tariff   W.Point, House Connectionetc   Water meter rading, E   06-09 Average monthly income by water tariff   W.Point, House Co	L				roject
05-06 Conveyance Type (Water source ~ Reservoir) Pipe material, length 05-07 Power to convey Pressure, Gravity Pressure 05-08 Water treatment Disinfection, Iron etc. inl. inl. inl. inl. inl. inl. inl. inl	O5-06 Conveyance Type (Water source ~ Reservoir)   Pipe material, length   PVC, 3", 400m   O5-07 Power to convey   Pressure, Gravity   Pressure   O5-08 Water treatment   Disinfection, Ironetc.   nil.   nil.   o5-10 Water treatment capacity   m3/day   nil.   o5-10 Water reserver type   Type   GR   GR*3nos.   o5-10 Water reserver No.   no.   GR*3nos.   o5-12 Water reserver No.   no.   GR*3nos.   o5-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.   o5-14 Power to transmit   Pressure, Gravity   nil.   o5-15 Distribution Type   Pipe material, length   nil.   o5-16 Power to distribute   Pressure, Gravity   Gravity   o5-16 Power to distribute   Pressure, Gravity   Gravity   O5-18 Number of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Namsonry, Pipe   o5-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)   o5-19 Number of faucet at a water point (Public Faucet, PF)   no.   6 / 4   o5-20 Average of daily water consumption at a water point (PF)   m3/day   o5-21 Number of House Connection (HC)   o5-22 Average of daily water consumption of House Connection(HC)   o5-24 Type of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health   o5-25 Average of daily water consumption of Business Connection (BC)   m3/day   l00L/day   l00L/day   l00-20 Type of organization   Regional, Zone, Enterpriceetc   Community water sup   o6-04 Number of Business Connection (BC)   m3/day   l00L/day   l00L/day   l00-04 Number of the financial staff   Pump operation, plun   o6-05 Number of the financial staff   Pump operation, plun   l06-06 Principal works of financial staff   Pump operation, plun   l06-09 Average monthly income by water tariff   W.Point, House Connection   Birr/m3   ditto   local principal works of technical staff   local principal works of technical staff   local principal works of technical staff   local principal works of start tariff   local principal works of technical staff   local principal works o					
O5-07 Power to convey	O5-07 Power to convey   Pressure, Gravity   Pressure   O5-08 Water treatment   Disinfection, Ironetc.   nil.   O5-09 Water treatment capacity   m3/day   nil.   o5-10 Water reserver type   Type   GR   GR   O5-11 Water reserver No.   no.   GR*3nos.   GR 25m3*lno., GR 1   O5-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.   o5-14 Power to transmit   Pressure, Gravity   nil.   O5-15 Distribution Type   Pipe material, length   nil.   O5-16 Power to distribute   Pressure, Gravity   Gravity   O5-16 Power to distribute   Pressure, Gravity   Gravity   O5-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Mansonry, Pipe   O5-18 Number of faucet at a water point (Public Faucet, PF)   no.   12 (6 nos. broken)   O5-19 Number of faucet at a water point (Public Faucet, PF)   no.   6/4   O5-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day   5m3/day   O5-21 Number of House Connection (HC)   M3/day   M3/day   M3/day   M3/day   O5-23 Number of Business Conection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health   O5-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day   100L/day   O5-26 Other technical specimen   Regional, Zone, Enterpriceetc   Community Water sur   O6-03 Number of thechnical staff   9   O6-06 Principal works of technical staff   9   O6-06 Principal works of technical staff   9   O6-06 Principal works of financial staff   9   O6-06 Principal works of fina			Pipe material, length		
05-09 Water treatment capacity   m3/day   nil.     05-10 Water reserver type   Type   GR     05-11 Water reserver type   no.   no.   GR*3nos.     05-12 Water reserver Capacity   m3   GR 25m3*Ino., GR 10m3*2nos.     05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.     05-14 Power to transmit   Pressure, Gravity   nil.     05-15 Distribution Type   Pipe material, length   GIP, 1"~2*1/2", 4,900m (see below)     05-16 Power to distribute   Pressure, Gravity   Gravity     05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipe   no.   12 (6 nos. broken)     05-19 Number of water point (Public Faucet, PF)   no.   6 / 4     05-20 Average of daily water consumption at a water point (PF)   m3/day   Sm3/day     05-21 Number of House Connection (HC)   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day     05-23 Number of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc School*1, Gov.*5, Health Cntre*1, Mosque*4     05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   Regional, Zone, Enterpriceetc   Community water supply service     06-00 Type of organization   Regional, Zone, Enterpriceetc   Community Based Organization (CBO     06-00 Number of thechnical staff   Pump operation, plumbing     06-00 Frincipal works of technical staff   Pump operation, plumbing     06-00 Frincipal works of financial staff   Pump operation, plumbing     06-00 Frincipal works of financial staff   Pump operation, plumbing     06-00 Frincipal works of financial staff   Pump operation, plumbing     06-00 Rwater tariff rate   W.Point, House Connectionetc.   W. Point, House Connection     06-00 Water tariff rate   Water point (Public faucet)   Birr/m3   T.5 birr/m3     06-00 Average monthly income by water tariff   Birr/m3   14,000 birr/month	05-10 Water treatment capacity   m3/day   nil.     05-10 Water reserver type   Type   GR     05-11 Water reserver type   no.   no.   GR*3nos.     05-12 Water reserver Capacity   m3   GR 25m3*1no., GR 1     05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.     05-14 Power to transmit   Pressure, Gravity   nil.     05-15 Distribution Type   Pipe material, length   GIP, 1"~2*1/2", 4,900     05-16 Power to distribute   Pressure, Gravity   Gravity     05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Mansonry, Pipe     05-18 Number of water point (Public Faucet, PF)   no.   6 / 4     05-20 Average of daily water consumption at a water point (PP)   m3/day   5m3/day     05-21 Number of House Connection (HC)   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day     05-23 Number of Business Conection (BC)   11     05-24 Type of Business Conection (BC)   12     05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   Community water supplied of the chnical staff   9     06-00 Operation and Maintenace   Community water supplied of the chnical staff   9     06-04 Principal works of technical staff   9     06-05 Number of the chnical staff   9     06-06 Trincipal works of financial staff   9     06-06 Water tariff rate   W.Point, House Connectionetc   W. Point, House Connection   Birr/m3   7.5 birr/m3     Business connection   Birr/m3   7.5 birr/m3   14,000 birr/month			Pressure, Gravity		
05-10 Water reserver type   Type   GR     05-11 Water reserver No.   no.   GR*3nos.     05-12 Water reserver Capacity   m3   GR 25m3*Ino., GR 10m3*2nos.     05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.     05-14 Power to transmit   Pressure, Gravity   nil.     05-15 Distribution Type   Pipe material, length   GiP, 1"~2*1/2", 4,900m (see below)     05-16 Power to distribute   Pressure, Gravity   Gravity   Gravity     05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Mansonry, Pipe     05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)     05-19 Number of faucet at a water point (Public Faucet, PF)   no.   6 / 4     05-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day     05-21 Number of House Connection (HC)   364   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day     05-23 Number of Business Conection (BC)   105-24 Type of Business Conection (BC)   105-24 Type of Business Conection (BC)   105-24 Type of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   06-01 Organization   Regional, Zone, Enterpriceetc   Community water supply service   06-02 Type of organization   Regional, Zone, Enterpriceetc   Community water supply service   06-04 Principal works of technical staff   9   06-06 Principal works of the financial staff   9   06-06 Principal works of financial staff   9   06-06 Principal works of financial staff   9   06-06 Principal works of financial staff   06-07 Categories of water tariff   W.Point, House Connectionetc.   W. Point, House Connection   06-08 Water tariff rate   Water point (Public faucet)   Birr/L, 20L   0.3 birr/30L   House connection   14,000 birr/month   14,000	O5-10 Water reserver type	ļ.,				
05-11 Water reserver No.   no.   GR*3nos.     05-12 Water reserver Capacity   m3   GR 25m3*lno., GR 10m3*2nos.     05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.     05-14 Power to transmit   Pressure, Gravity   nil.     05-15 Distribution Type   Pipe material, length   GIP, 1"-2*1/2", 4,900m (see below)     05-16 Power to distribute   Pressure, Gravity   nil.     05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipe  etc.   Mansonry, Pipe     05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)     05-19 Number of faucet at a water point (Public Faucet, PF)   no.   6/4     05-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day     05-21 Number of House Connection (HC)   364   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   5m3/day     05-23 Number of Business Connection (BC)   11     05-24 Type of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc.   School*1, Gov.*5, Health Cntre*1, Mosque*4     05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   Community water supply service     06-01 Organization's name   Community water supply service     06-02 Type of organization   Regional, Zone, Enterpriceetc Community Based Organization (CBO)     06-03 Number of thechnical staff   Pump operation, plumbing     06-05 Number of the financial staff   Pump operation, plumbing     06-06 Principal works of technical staff   Pump operation, plumbing     06-06 Principal works of financial staff   Pump operation, plumbing     06-07 Categories of water tariff   W.Point, House Connectionetc.     Water point (Public faucet)   Birr/M3   7.5 birr/m3     Business connection   Birr/m3   ditto     06-09 Average monthly income by water tariff   Birr/month   14,000 birr/month	O5-11 Water reserver No.   no.   GR*3nos.	<u> </u>				
05-12 Water reserver Capacity   m3   GR 25m3*1no., GR 10m3*2nos.	05-12 Water reserver Capacity   m3   GR 25m3*lno., GR 1     05-13 Transmission Type (Booster pump Stn. ~ Reservoir)   Pipe material, length   nil.     05-14 Power to transmit   Pressure, Gravity   nil.     05-15 Distribution Type   Pipe material, length   GIP, 1"~2*1/2", 4,900     05-16 Power to distribute   Pressure, Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Gravity   Grav	-				
05-14 Power to transmit   Pressure, Gravity   nil.     05-15 Distribution Type   Pipe material, length   GIP, 1"~2*1/2", 4,900m (see below)     05-16 Power to distribute   Pressure, Gravity   Gravity   Gravity     05-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Mansonry, Pipe     05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)     05-19 Number of faucet at a water point (Public Faucet, PF)   no.   6 / 4     05-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day     05-21 Number of House Connection (HC)   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day     05-23 Number of Business Conection (BC)   Factory, School, Gov. office, Hospitaltec   School*1, Gov.*5, Health Cntre*1, Mosque*4     05-24 Type of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   06-05 Community water consumption of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   06-01 Organization's name   Community water supply service     06-02 Type of organization   Regional, Zone, Enterpricetec   Community Water supply service     06-04 Principal works of technical staff   Pump operation, plumbing     06-05 Number of the financial staff   Pump operation, plumbing     06-06 Principal works of financial staff   W.Point, House Connectiontec     06-08 Water tariff   W.Point, House Connectiontec     06-08 Water tariff rate   Water point (Public faucet)   Birr/L, 20L   0.3 birr/30L     House connection   Birr/m3   7.5 birr/m3     06-09 Average monthly income by water tariff   Birr/month   14,000 birr/month	O5-14 Power to transmit   Pressure, Gravity   O5-15 Distribution Type   Pipe material, length   GIP, 1"~2*1/2", 4,900	Ī	05-12 Water reserver Capacity			3*2nos.
05-15 Distribution Type	O5-15 Distribution Type					
O5-16 Power to distribute	O5-16 Power to distribute   Pressure, Gravity   O5-17 Structure Type of water point (Public Faucet, PF)   RC, Masonry, Pipeetc.   Mansonry, Pipe   O5-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)	į.				see helow)
05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)	05-18 Number of water point (Public Faucet, PF)   no.   12 (6 nos. broken)	i.				see below)
05-19 Number of faucet at a water point (Public Faucet, PF)   no.   6 / 4     05-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day     05-21 Number of House Connection (HC)   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day     05-23 Number of Business Connection (BC)   11     05-24 Type of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health Cntre*1, Mosque*4     05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen                       06-01 Organization's name	05-19 Number of faucet at a water point (Public Faucet, PF)   no.   6 / 4     05-20 Average of daily water consumption at a water point (PF)   m3/day   5m3/day     05-21 Number of House Connection (HC)   364     05-22 Average of daily water consumption of House Connection(HC)   m3/day   66L/day     05-23 Number of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health     05-24 Type of Business Connection (BC)   Factory, School, Gov. office, Hospitaletc   School*1, Gov.*5, Health     05-25 Average of daily water consumption of Business Connection (BC)   m3/day   100L/day     05-26 Other technical specimen   Community water support					
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06-06 Principal works of financial staff  06-07 Categories of water tariff  W.Point, House Connectionetc. W. Point, House Connection  06-08 Water tariff rate  Water point (Public faucet)  Birr/L, 20L  House connection  Birr/m3  7.5 birr/m3  Business connection  Birr/m3  ditto  06-09 Average monthly income by water tariff  Birr/month  Water meter rading, Billig  W.Point, House Connection  0.3 birr/30L  ditto	06-06 Principal works of financial staff  06-07 Categories of water tariff  W.Point, House Connectionetc. W. Point, House Connectionetc. W. Point, House Connection  06-08 Water tariff rate  Water point (Public faucet)  House connection  Birr/L, 20L  Birr/m3  Business connection  Birr/m3  Average monthly income by water tariff  06-09 Average monthly income by water tariff  06-10 Procurement of spare parts  06-11 Principal spare parts  Oil filter, Fuel filter, Pipesetc.  O6-12 Method in case of serious repair  by Regional office, Private companyetc.  Notify Woreda < Zon  O6-13 Principal serious repair with 5-10 years  Water meter rading, E  W.Point, House Connectionetc. W. Point, House Connectionetc. W. Point, House Connectionetc. W. Point, House Connectionetc. W. Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connectionetc. Vale Point, House Connection				Pump operation, plumbing	9
06-07 Categories of water tariff W.Point, House Connectionetc. W. Point, House Connection 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20L House connection Birr/m3 7.5 birr/m3 Business connection Birr/m3 ditto 06-09 Average monthly income by water tariff Birr/month 14,000 birr/month	06-07 Categories of water tariff  W.Point, House Connectionetc. W. Point, House Connection  06-08 Water tariff rate  Water point (Public faucet)  House connection  Birr/L, 20L  Birr/M3  7.5 birr/m3  Business connection  Birr/m3  Aditto  06-09 Average monthly income by water tariff  06-10 Procurement of spare parts  06-11 Principal spare parts  O6-11 Principal spare parts  O6-12 Method in case of serious repair  06-13 Principal serious repair with 5-10 years  W.Point, House Connectionetc.  W. Point, House Connectionetc.  W. Poi	×			Water meter rading Billig	,
Water point (Public faucet)  House connection  Birr/L, 20L  Birr/m3  7.5 birr/m3  Business connection  Birr/m3  ditto  06-09 Average monthly income by water tariff  Birr/month  14,000 birr/month	Water point (Public faucet)  House connection  Birr/M3  Business connection  Birr/m3  Business connection  6-09 Average monthly income by water tariff  O6-10 Procurement of spare parts  O6-11 Principal spare parts  O6-12 Method in case of serious repair  O6-13 Principal serious repair with 5-10 years  Birr/L, 20L  0.3 birr/30L  ditto  Birr/m3  Aitto  Birr/month  14,000 birr/month  14,000 birr/month  14,000 birr/menth  14,000 birr/menth  14,000 birr/menth  14,000 birr/menth  14,000 birr/month  15,000 birr/month  16,000 birr/month  16,000 birr/month  16,000 birr/month  17,000 birr/month  18,000 birr/month  19,000 birr/month  10,000 bi			W.Point, House Connectionetc.		
House connection Birr/m3 7.5 birr/m3  Business connection Birr/m3 ditto  06-09 Average monthly income by water tariff Birr/month 14,000 birr/month	House connection  Birr/m3  Business connection  Birr/m3  Birr/m3  ditto  06-09 Average monthly income by water tariff  06-10 Procurement of spare parts  06-11 Principal spare parts  Oil filter, Fuel filter, Pipesetc  06-12 Method in case of serious repair  06-13 Principal serious repair with 5-10 years  Birr/m3  14,000 birr/month  16-14 Notify Addis Ababa, Butajira  Water meter, pipe fitt  16-12 Method in case of serious repair  16-13 Principal serious repair with 5-10 years  Burned pump motor					
Business connection Birr/m3 ditto 06-09 Average monthly income by water tariff Birr/month 14,000 birr/month	Business connection  06-09 Average monthly income by water tariff  06-10 Procurement of spare parts  06-11 Principal spare parts  06-12 Method in case of serious repair  06-13 Principal serious repair with 5-10 years  Birr/m3  ditto  14,000 birr/month  14,000 birr/month  at Town, Zonal Cap. Reg. Capetc. Addis Ababa, Butajira  Oil filter, Fuel filter, Pipesetc  Water meter, pipe fitt  by Regional office, Private companyetc  Notify Woreda < Zon  Burned pump motor	ļ				
06-09 Average monthly income by water tariff Birr/month 14,000 birr/month	06-09 Average monthly income by water tariff     Birr/month     14,000 birr/month       06-10 Procurement of spare parts     at Town, Zonal Cap. Reg. Capetc.     Addis Ababa, Butajir       06-11 Principal spare parts     Oil filter, Fuel filter, Pipesetc     Water meter, pipe fitt       06-12 Method in case of serious repair     by Regional office, Private companyetc     Notify Woreda < Zon	ŀ				
06.10 Programment of course parts at Toyon Zonel Con Pag Con at Addis Ababa Putoiira	06-11 Principal spare parts Oil filter, Fuel filter, Pipesetc Water meter, pipe fitt 06-12 Method in case of serious repair by Regional office, Private companyetc Notify Woreda < Zon 06-13 Principal serious repair with 5-10 years Burned pump motor					
	06-12 Method in case of serious repair by Regional office, Private companyetc Notify Woreda < Zon 06-13 Principal serious repair with 5-10 years Burned pump motor				Addis Ababa, Butajira	
	06-13 Principal serious repair with 5-10 years Burned pump motor					
				nai office, Private companyetc		хедіопаі
06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donorsetc. Water committee own fund	by Organization, Gov., Donors ctc., water committee own	į.		Organization, Gov., Donorsetc.		d
	06-15 Other technical specimen	Į				

S-46 Tora

07	Problem of actual town water supply			
	07-01 Technical			
	<u>,</u>	Design failui	re	
	<u> </u>	Delay of pay	ment from Customers	-
	<u> </u>		ment from Customers	+
	<u> </u>	Turrir rate		
	07-03 Other incidential, Special specimen			
			other village	
		nil.		-
	07-04 Other specimen			_
08	Geographical condition (Slope on mountaion, bottom of valley. Top of ridge, etc.)	)		+
	, , , , , , , , , , , , , , , , , , ,			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (9/) (by water consumption at forests)		200/	+
10		755 persons/G		
		, oo persons/	??%	<del> </del>
		ı=??%		<del> </del>
11	Water Potential (A / B / C / D / E)		В	1
12		Approached	B/C	_
10		itegories of ac		-
13	Manpower Capability of Water Supply Management by Water Office point)		10	-
14	Doree of urgency (A / B / C / D / F)			+
1 .				
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, which is not required more advanced tec	hnology. The	small town is on the	
16	Othor Donors NCO's			+
10	Other Dollors, NGO's			_
17	Main Ethnic Group	Silte		
18	Health conditions			_
				st
	<u> </u>			
	-3 Main patients of water born diseases persons / year			
				-
		Dysentery	720	
19	Main economic activities			
20	Particular comments :			
	The watersupply facility has been relatively good managed by the Water office and this office	collects wate	r fee for public faucets an	d
21	Pamarke			+
²¹				-
		know when t	the Committee was	
	established (the present Committee has been there for 2 years).			
Men	### Water source Quantity, Qualityetc.			
	05-15 Distribution pipe (GIP)			
<u> </u>	2*1/2" =350m 1"= 500m			
ļ	2" =100m			-
	1*1/2" = 3,950m			
	•			
	•			
	•			***************************************

S-46 Tora



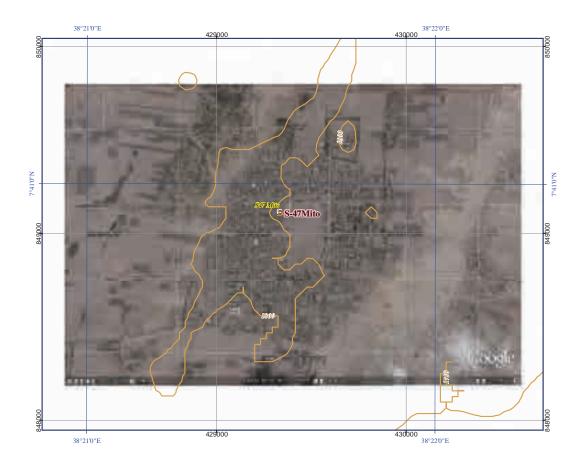
S-47 Mito

_	SNNPR				37 /		
	Name of small town		Mito		S- 4		
	Name of Woreda	:	Lanifaro (Lanif	uro)	SW- 3		
	Name of Zone	:	Silte		SZ- 0	8	
		Profile items			Profile		!
01	Population						
	Town	male / female / total	by SNNPR	1,714	1,563	3,277	
	Woreda percentage of Town in W	male / female / total	by Census 2007	58,834	57,257	116,091 2.8%	
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	429240	848987	1,718	
_	Town Status			Municipality		,	
,	Water Source						
1	04-01 Water source		Type, No.	Well 1no.			
	04-02 Well spec. 04-03 Method of water draw	Dep	th., Casing Dia., S.W.L, Yield Pump, Gravity	Pump			
,	04-04 Pump Spec.		Type, Yield	Motorized pum	n		
	04-05 Power source for motorize	ed pump	Type, Kva	Generator	<u> </u>		
	04-06 Durartion of water draw (		daily hours, time	17hrs.			
	04-07 Water quality		Iron, Fluorideetc.	Good			
	04-08 Other technical specimen						
05	Evicting Weton Complete E: Pr	1				+	
	Existing Water Supply Facilities 05-01 Established year	<u> </u>	(Gregorian calendar)	1981			
	05-01 Established year 05-02 Financial of implementati	on	Donor's name	SNNPR			
	05-03 Name of implementation			Mito 01 kebele	water supply	project	
	05-04 Intake Type			Well		1	
	05-05 Intake No.			lno.			
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 2", 500m	***************************************		
	05-07 Power to convey		Pressure, Gravity	Pressure			
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nil. nil.			
,	05-10 Water reserver type		Туре	ER			
- 1	05-11 Water reserver No.		no.	lno.			
	05-12 Water reserver Capacity		m3	38m3			
3	05-13 Transmission Type (Boos	ter pump Stn. ~ Reservoir)	Pipe material, length	nil.			
,	05-14 Power to transmit		Pressure, Gravity	nil.			
	05-15 Distribution Type 05-16 Power to distribute		Pipe material, length Pressure, Gravity	Gravity			
1	05-17 Structure Type of water p	oint (Public Faucet PF)	RC, Masonry, Pipeetc.				
	05-17 Structure Type of water point (P		no.	6			
	05-19 Number of faucet at a wat		no.	4FC*3PF, 2FC	*2PF		
1	05-20 Average of daily water co		m3/day	13m3/day			
	05-21 Number of House Connec			218			
	05-22 Average of daily water const 05-23 Number of Business Cone	_	m3/day	0.5m3/day (=10	5m3/30days)	)	
	05-23 Number of Business Cone 05-24 Type of Business Connec		ol, Gov. office, Hospitaletc	0			
	05-25 Average of daily water consu			2.7m3/day (=80	0m3/30davs)	)	
	05-26 Other technical specimen						
	Operation and Maintenace			Mis-	.1		
	06-01 Organization's name	n	gional, Zone, Enterpriceetc	Mito water deve		ion	
	06-02 Type of organization 06-03 Number of thechnical stat		gionai, Zone, Enterpriceetc	1	eu organizat	1011	
	06-04 Principal works of technic	······································		Pomp operation			
,	06-05 Number of the financial s			Not grasped			!
	06-06 Principal works of financi			Not grasped			!
		W.F	oint, House Connectionetc.				
	06-07 Categories of water tariff						
	06-08 Water tariff rate		D. 7 201	0.051: '00*			
	06-08 Water tariff rate Water point (Public fauce		Birr/L, 20L	0.25birr/20L			•
	06-08 Water tariff rate Water point (Public fauce House connection		Birr/m3	Not grasped			!
	06-08 Water tariff rate Water point (Public fauce House connection Business connection	t)	Birr/m3 Birr/m3	Not grasped Not grasped	th		!
	06-08 Water tariff rate Water point (Public fauce House connection Business connection 06-09 Average monthly income	t) by water tariff	Birr/m3 Birr/m3 Birr/month	Not grasped Not grasped 28,000birr/mon	th		
	06-08 Water tariff rate Water point (Public fauce House connection Business connection 06-09 Average monthly income 06-10 Procurement of spare part	t) by water tariff s at Town	Birr/m3 Birr/m3 Birr/month a, Zonal Cap. Reg. Cap etc.	Not grasped Not grasped 28,000birr/mon Addis Ababa	th		
	06-08 Water tariff rate Water point (Public fauce House connection Business connection 06-09 Average monthly income	by water tariff s at Town Oi	Birr/m3 Birr/m3 Birr/month	Not grasped Not grasped 28,000birr/mon Addis Ababa Pipes&fittings	th		
	06-08 Water tariff rate Water point (Public fauce House connection Business connection 06-09 Average monthly income 06-10 Procurement of spare part 06-11 Principal spare parts 06-12 Method in case of serious 06-13 Principal serious repair w	by water tariff s at Town Oi repair by Regional	Birr/m3 Birr/m3 Birr/month a, Zonal Cap. Reg. Capetc. l filter, Fuel filter, Pipesetc office, Private companyetc	Not grasped Not grasped 28,000birr/mon Addis Ababa Pipes&fittings Region Generator broke	en		
	06-08 Water tariff rate Water point (Public fauce House connection Business connection 06-09 Average monthly income 06-10 Procurement of spare part 06-11 Principal spare parts 06-12 Method in case of serious	by water tariff s at Town Oi repair by Regional ith 5-10 years ) by Orge	Birr/m3 Birr/m3 Birr/month a, Zonal Cap. Reg. Capetc. l filter, Fuel filter, Pipesetc	Not grasped Not grasped 28,000birr/mon Addis Ababa Pipes&fittings Region Generator broke	en		

S-47 Mito

)7	Problem of actual town water supply				
	07-01 Technical		-		
	Water source	Quantity, Qualityetc.	Shortage wa	iter	
	Water supply facility	Decrepit, leakage, design failureetc	<u>-</u>		
	07-02 Finalcial	8-78		***************************************	
	Management		Cost of fule	for ganarator	
	Rate of water tarrif collection		low		
	Personnel expenses		Not grasped		
	Shortage of budget to execute operation & r	naintenace	- tot grusped		
ł	07-03 Other incidential, Special specimen	namenaee			
	Increase in population to consume water	coming from other towns, villagesetc	coming fron	n villagers	
	Change in industry	increase factory, Tradingetc	nil	ii viiiugeis	
1	Human conflict	Ethnic, Administrativeetc			
ł	07-04 Other specimen	Etimic, Administrativeetc	11111.		
	07-04 Other specimen				
10	Geographical condition (Slope on moun	taion, bottom of valley, Top of ridgeetc.	<u> </u>		
	Town is on the flat area	naion, bottom of valley, Top of Hugeetc.	<i>)</i>		
ŀ	Town is on the flat area				
19	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
-	Refer to Chapter 4 Table 4.7				
				***************************************	
0	Current Water Coverage (%) (by water consumpti	ion at faucets)		285%	
	(13m3*6PF+0.5m3*218HC+2.7m3*6BC)=203.2m		10 160paras		-285%
	(15m3*6PF+0.5m3*218HC+2./m3*6BC)=205.2n Current Water Coverage (%) (by data of water so		10,100pe180l	?? %	-20370
	Current water Coverage (%) (by data of water sol ((??L)*3600sec.*8hrs)=???L/day ???/20Lcd=???	porson 222porsons2277ps 1-ti 2222/		11 %	-
	(((?/L)*3600sec.*8nrs)=???L/day ???/20Lcd=??? Water Potential (A / B / C / D / E)	persos (((personso2)/population=!!!%		В	
1	water potential (A/B/C/D/E)			В	
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Ba	on Course/C=Sub C=ode/D=O=l= D== C=== T=3Y	t A pproced 1	C/C	
2		se Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	C/C	
ļ		$h > 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$	11 55 6		*1*
	Access road is Asphalt & Sub grade 68km from B Manpower Capability of Water Supply Manageme		able 5-7: Cate		ılıty"
3	Mannower Canability of Water Supply Manageme	ent by Water Office (point)		6	
	ivian power Capability of water Supply Manageme				
	water Suppry water suppry water				
	Dgree of urgency (A / B / C / D / E)				
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
	Dgree of urgency (A / B / C / D / E)				
15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan	ard. The small town is on the generally flat	terrains, how	ever. construction v	works is -
15	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standa	ard. The small town is on the generally flat	terrains, howe	ever, construction v	works is -
15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.	ard. The small town is on the generally flat	terrains, howe	ever, construction v	works is -
15	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standa	ard. The small town is on the generally flat	terrains, howe	ever, construction v	works is
15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.	ard. The small town is on the generally flat	terrains, howe	ever, construction v	works is
.5	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's	ard. The small town is on the generally flat	terrains, howe	ever, construction v	works is
15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.	ard. The small town is on the generally flat	terrains, howe	ever, construction v	works is
15	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's	ard. The small town is on the generally flat		ever, construction v	works is —
15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions	ard. The small town is on the generally flat	Silte		
15	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town	ard. The small town is on the generally flat	Silte  Health Center	er, Private clinic, L	
6	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions	ard. The small town is on the generally flat	Silte	er, Private clinic, L	
.5	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town		Silte  Health Center	er, Private clinic, L	
5	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Silte  Health Center 50	er, Private clinic, E	
5 6 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Silte  Health Center 50	er, Private clinic, E ) 3,600	
5 6 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Silte  Health Centre 50  Mararia	er, Private clinic, E ) 3,600	
5 6 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Silte  Health Centre 50  Mararia	er, Private clinic, E ) 3,600	
5 6 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km	Silte  Health Centre 50  Mararia	er, Private clinic, E ) 3,600	
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km	Silte  Health Centre 50  Mararia	er, Private clinic, E ) 3,600	
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km	Silte  Health Centre 50  Mararia	er, Private clinic, E ) 3,600	
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km	Silte  Health Centre 50  Mararia	er, Private clinic, E ) 3,600	
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km persons / year	Silte  Health Centro 50  Mararia  Trade, Farm	er, Private clinic, E ) 3,600	Orug store
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a	Silte  Health Centrology 50  Mararia  Trade, Farm  dm. Coordina	er, Private clinic, E ) 3,600 sing	Orug store
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a Mr. Dejene Geremew Land	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
5 7 3	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
5 7 3	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources. Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a Mr. Dejene Geremew Land	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
5 7 3	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a Mr. Dejene Geremew Land	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
77 77 77 77 77 77 77 77 77 77 77 77 77	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a Mr. Dejene Geremew Land	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
77 77 77 77 77 77 77 77 77 77 77 77 77	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a Mr. Dejene Geremew Land	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
5 7 8	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian standarequired some ingenuities arround water sources.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Mohamed Surur Land a Mr. Dejene Geremew Land	Silte  Health Centrology 50 Mararia  Trade, Farm  dm. Coordina dev't expert n	er, Private clinic, E ) 3,600 sing	Orug store
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S-47 Mito



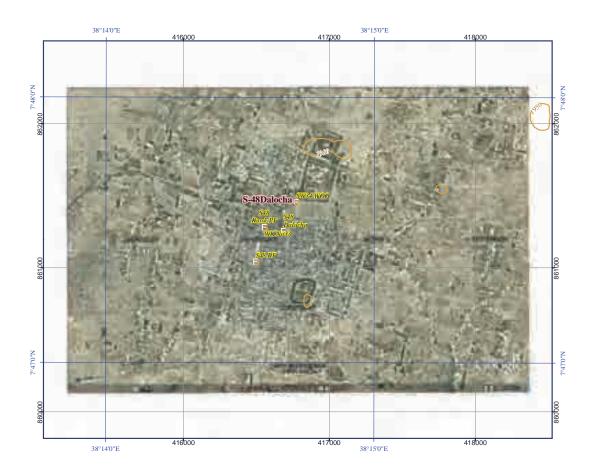
S-48 Dalocha

	SNNPR			- 38 / 52	
	Name of small town		Dalocha	S- 48	
	Name of Woreda		Dalocha	SW- 34	
	Name of Zone	:	Silte	SZ- 08	
		Profile items		Profile	!
01 I	Population		. grama		
	Town	male / female / total	by SNNPR	3,635 3,389 7,02	
	Woreda percentage of Town in Word	male / female / total	by Census 2007	45,069 44,963 90,03 7.89	
02 '	Fown Coordination	UTM (Adindan)	Easting / Northig / Alt.	416683 861330 1,95	_
	Fown Status	C 11v1 (/ tullidali)	Easting / Horting / Hit.	Woreda Capital	,,
	Water Source				
(	04-01 Water source		Type, No.	Spring*1no.	
j	04-02 Well spec.		Depth., Casing Dia., S.W.L	(4L & 8L/sec. Dry / Rainy season)	
ļ	04-03 Methor of water draw		Pump, Gravity	Pump	_
	04-04 Pump Spec.		Type, Yield	Motorized pump (16L/sec.)	
·	04-05 Power source 04-06 Durartion of water draw		Type, Kva daily hours, time	Commercial Elec. + standby generator 63kva 1hr./3hour *24hrs (Total 8hrs.)	a
ļ.,	04-07 Water quality		Iron, Fluorideetc.	Fluoride (within WHO limit)	
	04-08 Other technical specimen		iron, ridorideetc.	nil.	
	,				
05 1	Existing Water Supply Facilities				1
	05-01 Established year		(Gregorian calendar)	1997	
j	05-02 Financial of implementation	1	Donor's name	Action Aid (DWWDP)	
	05-03 Name of implementation			Dalocha Women Water Development Projec	t
ja.	05-04 Intake Type			Spring	
boo.	05-05 Intake No.	D:-\	Diagonal lange	Ino. GIP, ND6", L=500m	
· ·	05-06 Conveyance Type (Water so 05-07 Power to convey	ource ~ Reservoir)	Pipe material, length Pressure, Gravity	Pressure	
	05-07 Fower to convey	***************************************	Disinfection, Ironetc.	nil.	
L.,	05-09 Water treatment capacity		m3/day	nil.	_
	05-10 Water reserver type		Type	GR	
(	05-11 Water reserver No.		no.	1no.	
5	05-12 Water reserver Capacity		m3	300m3	
	05-13 Transmission Type (Booster	r pump Stn. ~ Reservoir)	Pipe material, length	GIP, ND4", L=4,000m	
b	05-14 Power to transmit		Pressure, Gravity	Gravity	
j.	05-15 Distribution Type 05-16 Power to distribute		Pipe material, length Pressure, Gravity	see below memo Gravity	
	05-17 Structure Type of water point	nt (Public Faucet PF)		Mansonry (Kiosk system)	-
	05-18 Number of water point (Pub		no.	7nos.	-
	05-19 Number of faucet at a water		no.	4nos.	
(	05-20 Average of daily water cons	sumption at a water point (PF)	m3/day	7.5m3/day	
	05-21 Number of House Connection			380	
ļ	05-22 Average of daily water consum		m3/day	0.067m3/day (13l/c/d)	
	05-23 Number of Business Conect			58	
lean lean	05-24 Type of Business Connection		ol, Gov. office, Hospitaletc.		
ļ	)5-25 Average of daily water consump	otion of Business Connection (BC)	m3/day	0.333m3/day Water supply area is not only Daloch	
-	05-26 Other technical specimen			town. For Dalocha woreda	
)6 (	Operation and Maintenace			town. For Burdena Woreda	+
	06-01 Organization's name			Womens water development assosiation	on
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc	Community based organization (CBC	D)
177	06-03 Number of thechnical staff			4	
(	06-04 Principal works of technical			Pump operation, plumbing	
(	06-05 Number of the financial staf	ff		11 (Incl. 7 Kiosk staff)	
(		staff		Water meter read, Bill	_
(	06-06 Principal works of financial			W. Popint, House connection	
(	06-07 Categories of water tariff		Point, House Connectionetc.		I
(	06-07 Categories of water tariff 06-08 Water tariff rate			0.25hirr/40L	
(	06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet)		Birr/L, 20L	0.25birr/40L 4.5 birr/m3 (free for water meter leas	se)
(	06-07 Categories of water tariff 06-08 Water tariff rate			0.25birr/40L 4.5 birr/m3 (free for water meter leasnil.	se)
0	06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection	W.F	Birr/L, 20L Birr/m3	4.5 birr/m3 (free for water meter leas	se)
0	06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection	w.F y water tariff at Town	Birr/L, 20L Birr/m3 Birr/m3 Birr/month , Zonal Cap. Reg. Capetc.	4.5 birr/m3 (free for water meter leasnil. 10,000birr/month Butajira, Warabe, Addis Ababa	se)
	06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts	W.F  y water tariff  at Town  Oi	Birr/L, 20L Birr/m3 Birr/m3 Birr/month a, Zonal Cap. Reg. Capetc. I filter, Fuel filter, Pipesetc	4.5 birr/m3 (free for water meter leasnil. 10,000birr/month Butajira, Warabe, Addis Ababa Filter for Generator	se)
	06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts	W.F  y water tariff  at Town  Oi  epair by Regional	Birr/L, 20L Birr/m3 Birr/m3 Birr/month , Zonal Cap. Reg. Capetc.	4.5 birr/m3 (free for water meter leasnil. 10,000birr/month Butajira, Warabe, Addis Ababa Filter for Generator Woreda, Zone, Regional	se)
	06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income by 06-10 Procurement of spare parts 06-11 Principal spare parts	w.F.  y water tariff  at Town Oi  epair by Regional	Birr/L, 20L Birr/m3 Birr/m3 Birr/month , Zonal Cap. Reg. Capetc. I filter, Fuel filter, Pipesetc office, Private companyetc	4.5 birr/m3 (free for water meter leasnil. 10,000birr/month Butajira, Warabe, Addis Ababa Filter for Generator	se)

S-48 Dalocha

	Problem of actual town water supply		
	07-01 Technical		
	Water source	Quantity, Qualityetc.	Need Separate Reservoir, additional ne
	Water supply facility	Decrepit, leakage, design failureet	c work & public water points
	07-02 Finalcial		
	Management Rate of water tarrif collection		
	Personnel expenses		
	Shortage of budget to execute operation	& maintenace	
	07-03 Other incidential, Special specimen	The manner acc	
	Increase in population to consume water	r coming from other towns, villageset	c population increase
	Change in industry	increase factory, Tradinget	
	Human conflict	Ethnic, Administrativeet	
	07-04 Other technical specimen		
08	Geographical condition (Slope on m	nountaion, bottom of valley, Top of ridgeetc	:.)
	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
	Current Water Coverage (%) (by water consumptions of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption of the consumption o		69%
		3C)=97.3m3/day 97.3m3/20Lpcd.= 4,865 person	
	Current Water Coverage (%) (by data of water		369%
	((6L)*3600sec.*24hrs)=518400L/day 518400	0/20Lcd=25920persos 25920persons/7024p	•
11	Water Potential (A / B / C / D / E)		В
1.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		C/P
12	Accessibility (A/B/C/D/E) A=Asphalt/E		ot Approached C / B
		$Vidth > 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$	F-11- 5-7- C-4ifi-lilit-"
		m Butajira (=38+10km) * Refer to Chapter 5 "T	1 able 5-7: Categories of accessibility
13	Manpower Capability of Water Supply Manag	gement by water Office point)	10
1.4	D C (A/D/C/D/D)		
	Dgree of urgency (A / B / C / D / E)		
	Dgree of urgency (A/B/C/D/E) Refer to Chapter 5 & 7		
	Refer to Chapter 5 & 7		
	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st	andard, however, it may be required high techr	
	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st	andard, however, it may be required high techr	
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr		
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's		
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr		
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's  Action Aid		und water sources.
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's		
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's  Action Aid  Main Ethnic Group		und water sources.
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's  Action Aid		und water sources.
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions		und water sources.  Silte
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr  Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	ruction works is required some ingenuities arro	Silte  Health Center, Private clinic, Drug sto
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	ruction works is required some ingenuities arro	Silte  Health Center, Private clinic, Drug sto 50
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr  Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	ruction works is required some ingenuities arro	Silte  Health Center, Private clinic, Drug sto 50  Mararia 20,898
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr  Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	ruction works is required some ingenuities arro	Health Center, Private clinic, Drug sto 50  Mararia 20,898 Dysentery 1,362
16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr  Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	ruction works is required some ingenuities arro	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740
115 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	ruction works is required some ingenuities arro	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	ruction works is required some ingenuities arro	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the plant of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplem	ruction works is required some ingenuities arro	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the plant of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplementary of the supplem	km persons / year	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba
115 116 117 118	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the plant of the small town is on the hills, construction of the plant of the small town is on the hills, construction of the plant of the small town is on the hills, construction of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the plant of the pla	km persons / year  survey, this area has higher effects Fluoride. The	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:	km persons / year  survey, this area has higher effects Fluoride. The	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba
115 116 117 118 119 120	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr  Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Co	km persons / year  survey, this area has higher effects Fluoride. The	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
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15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Composition of Town sketchetc.):	km persons / year  survey, this area has higher effects Fluoride. The	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
115 116 117 118 119 120	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Composition (Town sketchetc.):	km persons / year  survey, this area has higher effects Fluoride. The pordinator, Action Aid)	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Composition (Town sketchetc.):	km persons / year  survey, this area has higher effects Fluoride. The	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, construction of the Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Composition (Town sketchetc.):	km persons / year  survey, this area has higher effects Fluoride. The pordinator, Action Aid)	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
15 16 17 18 19 20 4en	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr Other Donors, NGO's Action Aid  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments: In accordance with the result of water quality swater quality around this area.  Remarks: Interviewee: Mr Shita Mohammed Project Co  10 (Town sketchetc.):  05-15 Distribution Type GIP ND=2*1/2" 1,000m GIP NG=1 GIP ND=2*1/2" 2,000m	km persons / year  survey, this area has higher effects Fluoride. The pordinator, Action Aid)	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671
15 16 17 18 19 20 4en	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Como (Town sketchetc.):  05-15 Distribution Type  GIP ND=2*1/2*1,000m  GIP NG=1  GIP ND=2*2,000m	km persons / year  survey, this area has higher effects Fluoride. The pordinator, Action Aid)  *1/2" 3,000m Total 6,000m	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671 Ato Sheyich Delgeba Mobile 0916839863
15 16 17 18 19 20 4en	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Como (Town sketchetc.):  05-15 Distribution Type  GIP ND=2*1/2*1,000m  GIP NG=1  GIP ND=2*2,000m	km persons / year  survey, this area has higher effects Fluoride. The pordinator, Action Aid)	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671 Ato Sheyich Delgeba Mobile 0916839863
15 16 17 18 19 20 4en	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st Fluoride. The small town is on the hills, constr Other Donors, NGO's  Action Aid  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:  In accordance with the result of water quality swater quality around this area.  Remarks:  Interviewee: Mr Shita Mohammed Project Como (Town sketchetc.):  05-15 Distribution Type  GIP ND=2*1/2*1,000m  GIP NG=1  GIP ND=2*2,000m	km persons / year  survey, this area has higher effects Fluoride. The pordinator, Action Aid)  *1/2" 3,000m Total 6,000m	Health Center, Private clinic, Drug sto 50 Mararia 20,898 Dysentery 1,362 Typhoid 740 other 1,744 Trade, Livestock, Farming  herefore, it is difficult to develop good Ato Eyasu Kergeba Ato Dereje Mamo Mobile 091611671 Ato Sheyich Delgeba Mobile 0916839863

S-48 Dalocha



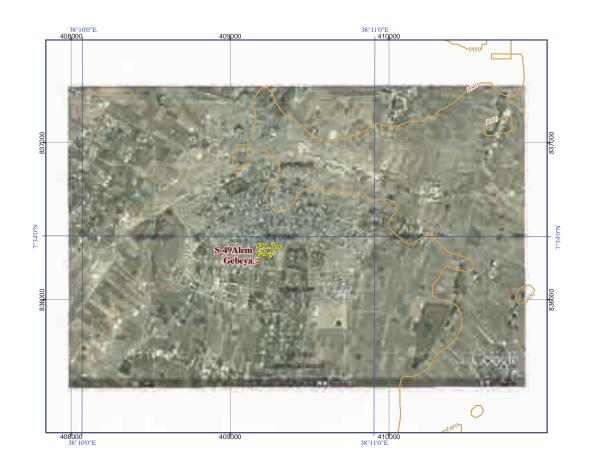
S-49 Alem Gebeya

	SNNPR			40 / 52	
	Name of small town	:	Alem Gebe	/a S- 49	
	Name of Woreda		Sankura	SW- 35	
	Name of Zone	•	Silte	SZ- 08	
	1141110 01 20110	Profile items		Profile	!
01	Population	Trome tems		Trome	•
01	Town	male / female / total	by SNNPR	2,018 1,638	3,656
	Woreda	male / female / total	by Census 2007		34,707
	percentage of Town in Wo	oreda			4.3%
	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	409074 836119	1,718
	Town Status			Municipality	
04	Water Source		T N-	Well*1no.	
	04-01 Water source 04-02 Well spec.		Type, No.	GL=168m, 6*5/8", GL-??m, ??L	/sec
	04-02 Well spee:		Pump, Gravity	Pump	7300.
	04-04 Pump Spec.		Type, Yield	Motorized pump (15kw)	
	04-05 Power source for motorize	ed pump	Type, Kva	Commercial Elec.	
	04-06 Durartion of water draw (	Operation hours)	daily hours, time	06:00-10:00, 17:00-19:00 (6hrs./	day)
	04-07 Water quality		Iron, Fluorideetc.	Good	
	04-08 Other technical specimen				
05	Existing Water Supply Facilities				
UO	05-01 Established year		(Gregorian calendar)	2003	
	05-01 Established year 05-02 Financial of implementation	on	Donor's name	SNNPR	
	05-03 Name of implementation (			Alem Gebeya town water supply p	project
	05-04 Intake Type			Well	
	05-05 Intake No.			lno.	
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 2*1/2"*1,000m, 2"*300m (Total 1,2	200m)
	05-07 Power to convey		Pressure, Gravity	Pressure	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity 05-10 Water reserver type		m3/day Type	ER	
	05-10 Water reserver type		no.	2nos.	
	05-12 Water reserver Capacity		m3	8m3*2nos.	
	05-13 Transmission Type (Boost	er pump Stn. ~ Reservoir)	Pipe material, length	nil.	***************************************
	05-14 Power to transmit		Pressure, Gravity	nil.	
	05-15 Distribution Type		Pipe material, length	PVC, 3", 900m	
	05-16 Power to distribute	-int (Dublin France DE)	Pressure, Gravity	Gravity	
	05-17 Structure Type of water po 05-18 Number of water point (Pu		RC, Masonry, Pipeetc no.	5	
	05-19 Number of faucet at a water			6	
	05-20 Average of daily water con			1.4m3/day	
	05-21 Number of House Connec	tion (HC)	-	109	
	05-22 Average of daily water consu		HC) m3/day	0.94m3/day	
	05-23 Number of Business Cone			7	
	05-24 Type of Business Connect		chool, Gov. office, Hospitaletc		
	05-25 Average of daily water consur 05-26 Other technical specimen	nption of Business Connection	(BC) m3/day	1.36m3/day	
	55 25 Other technical specifici				
06	Operation and Maintenace				
	06-01 Organization's name			Water commitie	
	06-02 Type of organization		Regional, Zone, Enterpriceetc	Community based organization	
	06-03 Number of thechnical staf			1	
	06-04 Principal works of technic 06-05 Number of the financial st			Pump operation	
	06-05 Number of the financial st			Water meter read, Bill, Water sal	e
	06-07 Categories of water tariff	ur outi	W.Point, House Connectionetc		
	06-08 Water tariff rate		,	,	
	Water point (Public faucet	)	Birr/L, 20L	0.2birr/20L	
	House connection		Birr/m3	5.0birr/m3	
	Business connection	1.02	Birr/m3	Free	
	06-09 Average monthly income		Birr/month	23,740birr/month	
	06-10 Procurement of spare parts 06-11 Principal spare parts	s at T	'own, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious	renair by Region	onal office, Private companyet		
	06-13 Principal serious repair wi		mai office, i fivale companyeli	Not grasped	
	06-14 Fund for above 6-09, 6-10		Organization, Gov., Donorsetc		
	06-15 Other technical specimen				

S-49 Alem Gebeya

0.7				1
07	Problem of actual town water supply			
	07-01 Technical			ļ
	Water source Quantity, Qualityetc			
	Water supply facility Decrepit, leakage, design failure	etc.Design failu	re	
	07-02 Finalcial			
	Management	Not grasped		1
	Rate of water tarrif collection	Not grasped		1
	ļ			
	Personnel expenses	Not grasped		
	Shortage of budget to execute operation & maintenace	Not grasped		ļ
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villages	etc Increase vill	agers, school, Gov.office	
	Change in industry increase factory, Trading			
	Human conflict Ethnic, Administrative			1
	07-04 Other specimen			1
	07-04 Other specifich			<del>-</del>
00				-
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridge .	etc.)		
	Town is on flat area			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
				<del> </del>
				<del> </del>
<b>-</b> -			4 4001	+ -
10	Current Water Coverage (%) (by water consumption at faucets)		163%	!
l	(1.4m3*5PF+0.94m3*109HC+1.36m3*7BC)=118.98m3/day 118.98m3/20Lpcd.= 5,949perso	ons 5,949persons	3,656 population = 163%	
	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*8hrs)=???L/day ???/20Lcd=???persos ???persons/3656population=	???%	ýv.	
11	Water Potential (A/B/C/D/E)		В	
	THE TOTAL (III DI CI DI L)			1
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/	E-Not Approached	B / B	+
12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<u>B</u> /B	<b>-</b>
	Under construction of road $A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1$			
	Access road is Asphalt & Sub grade 46km from Hosaina. (=18+28km) * Refer to Chapt	ter 5 "Table 5-7: C	ategories of accessibility"	
13	Manpower Capability of Water Supply Management by Water Office (point)		9	
			*	<b>-</b>
1.4	Dgree of urgency (A / B / C / D / E)		1	
17	Refer to Chapter 5 & 7			+
	Refer to Chapter 3 & 7			
	17 W. G. J. D.			-
15	New Water Supply Plan			ļ
	The facility can be designed in an Ethiopian standard, which is not required more advanc-	ed technology. The	e small town is on the	
	generally flat terrains, however, construction works is required some ingenuities arround	water sources. Th	e existing pipe lines are	
	necessary to repair and maintenance, however, water source and water reservoir tank can	be use continiusly	/.	
16	Other Donors, NGO's			1
10	EU&Christian Aid			-
	DOWCHIDIAN / HU			<del> </del>
17	M : Ed : C	C'l. A 1		-
1/	Main Ethnic Group	Silte, Amha	14	<b>_</b>
4.0	**			_
18	Health conditions			1
	-1 Medical facilities in Town	Health Cent	er, Private clinic, Health po	ost
	-2 Nearest other facilities from Town km	76		L
	-3 Main patients of water born diseases persons / year	Mararia	4,888	1
		Typhoid	150	1
		Diarrhea	40	1
•		Dysentery	10	1
19	Main economic activities	Trade, Farm		1
19	iviani economic activities	Trade, Farm	mg	-
20	Posticulos commentos			+
20	Particular comments :			ļ
				ļ
				1
				1
21	Remarks:			
	Mr. Sefedin Kedir Wo	reda water office h	ead, Mob.0913743051	
	Mr. Ashenafi Shegadi I			1
			e Expert Mob. 0916268925	4
Mar			- Expert 1/100, 0/10/2009/2.	1
wien	no (Town sketchetc.):	1		L
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S-49 Alem Gebeya



S-51 Mazoria

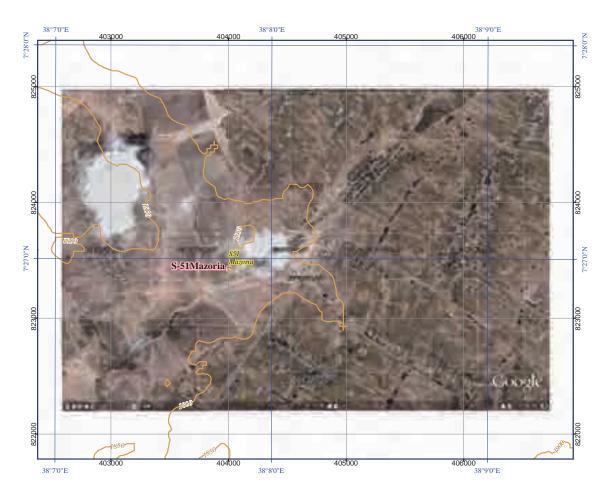
	SNNPR		40 / 52	2	
	Name of small town :	Mazoria	S- 51		
	Name of Woreda :	Sankura	SW- 35		
	Name of Zone :	Silte	SZ- 08		
	Profile items		Profile		!
01	Population				•
	Town male / female / total	by SNNPR	1,294 1,436	2,730	
	Woreda male / female / total	by Census 2007	42,459 42,248	84,707	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Al	t. 403911 823298	3.2% 1,829	
_	Town Status	Lasting / Norting / Ar	Kebere Association	1,029	
04	Water Source				
	04-01 Water source	Type, No.	Well *1no.		
	04-02 Well spec. D 04-03 Method of water draw	Depth., Casing Dia., S.W.L, Yield Pump, Gravity	d GL-130m, 6*5/8", GK-??m, 2.5L/sec Pump	с.	
	04-04 Pump Spec.	Type, Yield	Motorized pump		
	04-05 Power source for motorized pump	Type, Kva	Commercial elec.		
	04-06 Durartion of water draw (Operation hours)	daily hours, time	08:00-08:26, 15:00-15:26 (52min./d	lay)	!
	04-07 Water quality	Iron, Fluorideetc.	Good		
	04-08 Other technical specimen				
05	Existing Water Supply Facilities				
	05-01 Established year	(Gregorian calendar)	2010		
	05-02 Financial of implementation	Donor's name	SNNPR		
	05-03 Name of implementation (Project name)		Redina water supply project		
	05-04 Intake Type 05-05 Intake No.		Well Ino.		
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2", 700m		
	05-07 Power to convey	Pressure, Gravity	Pressure		
	05-08 Water treatment	Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity	m3/day	nil.		
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	ER 1no.		
	05-12 Water reserver Capacity	m3	4m3		
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit	Pressure, Gravity	nil.		
	05-15 Distribution Type	Pipe material, length	GIP, 2", 1,806m		
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc	Gravity . Mansonry		
	05-18 Number of water point (Public Faucet, PF)	no.	4 (2 function)		
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6		
	05-20 Average of daily water consumption at a water point (I	PF) m3/day	3.8m3/day		
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(H	(C)2/1	nil.		
	05-22 Average of daily water consumption of House Connection(H 05-23 Number of Business Conection (BC)	(C) m3/day	nil.		
		hool, Gov. office, Hospitaletc	1		
	05-25 Average of daily water consumption of Business Connection (I		nil.		
	05-26 Other technical specimen				
04	Operation and Maintenace				
00	Operation and Maintenace 06-01 Organization's name		Mazoria watger supply system		
		Regional, Zone, Enterpriceetc			
	06-03 Number of thechnical staff	*	1		
	06-04 Principal works of technical staff		Pump operation		
	06-05 Number of the financial staff		Wate sale		
1	06-06 Principal works of financial staff 06-07 Categories of water tariff	W.Point, House Connectionetc			
1	06-08 Water tariff rate	,see connectionetc			
	Water point (Public faucet)	Birr/L, 20L	0.3birr/20L		
	House connection	Birr/m3	nil.		
1	Business connection	Birr/m3 Birr/month	nil. 3,250birr/month		
	06-09 Average monthly income by water tariff 06-10 Procurement of spare parts at To	wn, Zonal Cap. Reg. Capetc			
1	06-11 Principal spare parts	Oil filter, Fuel filter, Pipeset	Pipefittings		
	06-12 Method in case of serious repair by Region	nal office, Private companyet	Woreda		
	06-13 Principal serious repair with 5-10 years		nil.		
		Organization, Gov., Donorsetc	. Donors		
1	06-15 Other technical specimen				
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		i .		

S-51 Mazoria

0.5		1		
07				
		Water shortage		ļ
		c Design failure (7	Γank capacity)	
	Management			
	Rate of water tarrif collection	Not grasped		ı
	Personnel expenses	low		
	Shortage of budget to execute operation & maintenace	Shortage budget	for O&M	
		1		
		nil.		
	<u> </u>			
		V		
	or outer specimen	***************************************	***************************************	
08	Geographical condition (Slope on mountains bottom of valley Top of ridge ata	)		
00		.)		 I
	Town is on the flat area.			
-00	N. T. C. C. C. T. M. C. D.			
09				
	Refer to Chapter 4 Table 4.7			
10	Current Water Coverage (%) (by water consumption at favorts)	Г	1.404	
10		/ 2 720		
l		nis / 2,/50 popula		
	<u> </u>	· 1210/	132%	
		tion=131%		
11	water Potential (A/B/C/D/E)	L	A	
12	A conscibility (A / D / C / D / E) A - A coholt/D-Paga Course/C-Sub Grade/D-Only Dry Saccon/E-	Not Approached	D / D	
12		Not Approached	B / B	
		5 7. C-t	£ :1: :1::4-:!!	
12		e 5-7: Categories o	1	
13	Manpower Capability of Water Supply Management by Water Office point)	L	0	
L				
14				
	Refer to Chapter 5 & /			
1.5	N. W. G. I Di			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, which is not required more advanced te	chnology. The sma	all town is on the generally fla	t
	terrains, however, construction works is required some ingenuities arround water sources.			
1.0	OI D NGO			
16				
	EU&CHISHAH AIU			
17	Main Faloria Comm	C:14-		
1/	Wain Einnic Group	Sille		
1.0	TIlab dial			
18		TT 1/1		
	ļ		1.000	
	-3 Main patients of water born diseases persons / year			
19	Iviain economic activities	rade, Farming,	LIVESTOCK	
20				
20				
	Current operation time is less than 1 nour.			
21	D			
21		. M. I. 0016122	0.40	
	<u> </u>			
			e cnair man Mob. 0920988591	
	1	0910191134		
Men	no (Town sketchetc.):			
ļ	Personnel expenses Shortage of budget to execute operation & maintenace Shortage budget for O&M Shortage budget for O&M Shortage budget for O&M Shortage budget for O&M O7-63 Other incidential. Special specimen Increase in population to consume water Change in industry Change in industry Change in industry Increase factory, Tradingetc. nil.  Ethnic, Administrativeetc. nil.  Ethnic, Administrativeetc. nil.  Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area.  Necessary Institution (Facility, Material) Duration of pump operation may be extended to 8 hours. Refer to Chapter 4 Table 4.77  Current Water Coverage (%) (by water consumption at faucets) (3.8m3*2PF-6m3*0HC-0m3*0HC)=7.60m3/day 7.60m3*2OLpcd=380persons 380persons 2,730 population = 14% (3.8m3*2PF-6m3*0HC-0m3*0HC)=7.60m3/day 7.60m3*2OLpcd=380persons 380persons 2,730 population = 14% (3.8m3*2PF-6m3*0HC-0m3*0HC)=7.60m3/day 7.60m3*2OLpcd=380persons 380persons 2,730 population = 14% (3.8m3*2PF-6m3*0HC) data of water source product)  [1329] [1329] [1329] [1328] [1329] [1328] [1329] [1329] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320] [1320]			
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データ 7.3 南部諸民族州の小都市プロファイル

S-51 Mazoria



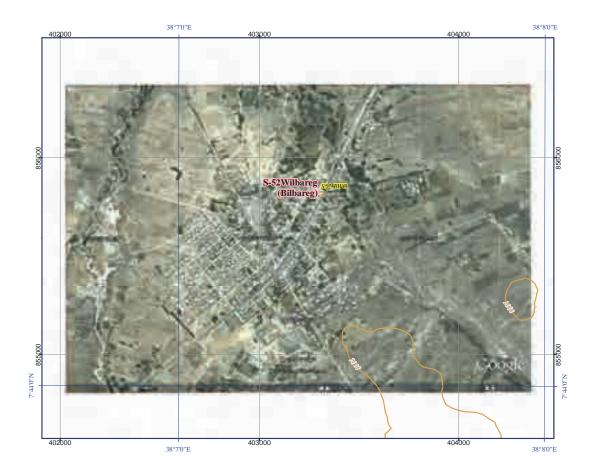
S-52 Bilbareg

SNNPR			41 / 52	
Name of small town		Bilbareg (Wilba		
Name of Woreda	:	Wilbareg	SW- 36	
Name of Zone	•	Silte	SZ- 08	
	Profile items		Profile	
Population				$\top$
Town	male / female / total	by SNNPR		197
Woreda	male / female / total	by Census 2007	38,282 41,689 79,9	
percentage of Town in Wo		Easting / Northig / Alt		7% 004
Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	403219 855693 2,0 Woreda Capital	104
Water Source			Worden Capital	$\top$
04-01 Water source		Type, No.	Well*1no.	
04-02 Well spec.	Dep	<u> </u>	d GL-92m, 6:5/8", GL-26m, 1.2L/sec.	
04-03 Method of water draw		Pump, Gravity	Pump	_
04-04 Pump Spec.	1	Type, Yield	Mono-lift-Pump Single sylinder Diesel Engine	
04-05 Power source for motorize 04-06 Durartion of water draw (		Type, Kva daily hours, time	08:00~10:00, 13:30~15:30, 17:00~19:00 (6hrs./da	lav)
04-07 Water quality	Speration nours)	Iron, Fluorideetc.	Good	197
04-08 Other technical specimen		11011, 1 11011111		
Existing Water Supply Facilities	j			$\Box$
05-01 Established year		(Gregorian calendar)	1983	
05-02 Financial of implementation		Donor's name	Kale Hiwot Chrch	
05-03 Name of implementation of 05-04 Intake Type	(Project name)	maker and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	Wirbaleg Town Water Supply Projection	ct
05-04 Intake Type 05-05 Intake No.			1 no.	-
05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, ??", 220m	-
05-07 Power to convey		Pressure, Gravity	Pressure	
05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment capacity		m3/day	nil.	
05-10 Water reserver type		Туре	ER, Steel Tank	_
05-11 Water reserver No.		no.	1no.	-
05-12 Water reserver Capacity 05-13 Transmission Type (Boos	Ctn Pacervoir)	m3 Pipe material, length	8.0m3 nil.	
05-14 Power to transmit	ler pump sui. ~ Reservoir,	Pripe material, length Pressure, Gravity	nil.	-
05-15 Distribution Type		Pipe material, length	GIP, 2"*30m, 1*1/2"*200m	-
05-16 Power to distribute		Pressure, Gravity	Gravity	
05-17 Structure Type of water pe		RC, Masonry, Pipeetc.	. Mansonry	
05-18 Number of water point (Pr		no.	2 nos. (1/2 is not functioned)	
05-19 Number of faucet at a wat		no.	6	
05-20 Average of daily water co		m3/day	4m3/day 15	-
05-21 Number of House Connec 05-22 Average of daily water consu		) m3/day	2.0m3/day	
05-22 Average of daily water const		III3/uay	2.UIII3/Uay	
05-24 Type of Business Connect		ool, Gov. office, Hospitaletc.	Gov. (Woreda Office)	-
05-25 Average of daily water consum			0.1m3/day	T
05-26 Other technical specimen				
2 2 134 1			<del> </del>	$\dashv$
Operation and Maintenace 06-01 Organization's name			Water committee	
06-02 Type of organization	R	egional, Zone, Enterpriceetc		
06-03 Number of thechnical staf		2glonar, Zone, Emerpriceec	1	_
06-04 Principal works of technic			Pump operation, Water mo	
06-05 Number of the financial st			1	
06-06 Principal works of financi	ial staff		Bill	
06-07 Categories of water tariff	W.3	Point, House Connectionetc.	. W. Point, House connection	_
06-08 Water tariff rate				_
Water point (Public fauce	t)	Birr/L, 20L	0.15birr/20L 4.50birr/m3	
House connection Business connection		Birr/m3 Birr/m3	ditto	
06-09 Average monthly income	by water tariff	Birr/m3 Birr/month	3,000birr/month	+
06-10 Procurement of spare part	s at Tow	n, Zonal Cap. Reg. Capetc.		-
06-11 Principal spare parts	0	oil filter, Fuel filter, Pipesetc	Town, Woreda, Zone	
06-12 Method in case of serious		l office, Private companyetc	Parts of Mono-lift-pump	
			Woreda, Zone, Region	$\Box$
06-13 Principal serious repair wi				
06-13 Principal serious repair wi 06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	) by Org	ganization, Gov., Donorsetc.	Engine broken Municipality	

S-52 Bilbareg

07	<u> </u>				
	07-01 Technical				
		ity, Qualityetc.	Watger short		
	Water supply facility Decrepit, leaka 07-02 Finalcial	ge, design failureetc	Design failur	e (Pipe lines)	
	Management				
	Rate of water tarrif collection		Shortage of s	staff	
	Personnel expenses		low		
	Shortage of budget to execute operation & maintenace			oudget for O&M	
	07-03 Other incidential, Special specimen				
		er towns, villagesetc		population	
		factory, Tradingetc.			
		e, Administrativeetc	nıl.		
	07-04 Other specimen		***************************************		
08	Geographical condition (Slope on mountaion, bottom of vall	av Top of ridge atc.)	\		+
00	South of mountain range slopping flat land	cy, rop or mageetc.)	<u>'</u>		
	5 11 5				
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"		***************************************		
10	Current Water Coverage (%) (by water consumption at faucets)			78%	+
10	(4m3*1PF+2m3*15HC+0.1m3*1BC)=34.1m3/day 34.1m3/20Lpcd.=	1.705persons 1.705r	persons / 2 10		
	Current Water Coverage (%) (by data of water source product))	1,705 persons 1,705		7 population = 78%	+
		728persons/2197popula	tion=79%		
11	Water Potential (A/B/C/D/E)			В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/ A=Road Width > 6m /B= >3~6m /		Approached	A/C	
	A=Road Width > 6m /B= >3~6m / Access road is asphalt paved 53km from Butajira. * Refer to Chapter 5		of accessibili		
13	Manpower Capability of Water Supply Management by Water Office		or accession	9	+
13	Manpower Capability of Water Supply Management by Water Office	pomey			
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
1.5	N W C I DI				+
15	New Water Supply Plan				
	The facility can be designed in an Ethiopian standard, whichis not requ	ired more advanced tec	hnology. The	small town is on the hill:	s,
	construction works is required some ingenuities.				
16	Other Donors, NGO's				
	EU&Christian Aid "Wulbareg and Snakura Waredas Water Supp	oly, Health and Enviror	nmental Deve	lopment Project"	
17	Jan 2008 ~ Dec. 2010  Main Ethnic Group		Silte		+
1 /	Main Ethnic Group		SIIC		
18	Health conditions				
	-1 Medical facilities in Town		Health Cente	er, Private clinic	
	-2 Nearest other facilities from Town km		65		
	-3 Main patients of water born diseases person	ns / year	Mararia	4,269	
			Typhoid	3,396	
			Dysentery Diarrhea	3,244 2,986	
				3,931	
10	Main aconomia activities		Dysentery Trada Farmi		
19	Main economic activities		Trade, Farmi	ing, waving	
20	Particular comments :				+
		***************************************			
<u> </u>					
21	Remarks: Yekesi Said Water committee Chai		Mobile:- 091		
	Mubarik Nasir Woreda water off. N Shemsu Sultan Minning expert	rechnic	Mobile: 091		
	Snemsu Sunan ivinning expert		Mobile :- 09	10037004	
Men	mo (Town sketchetc.):				+
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	nec				

S-52 Bilbareg



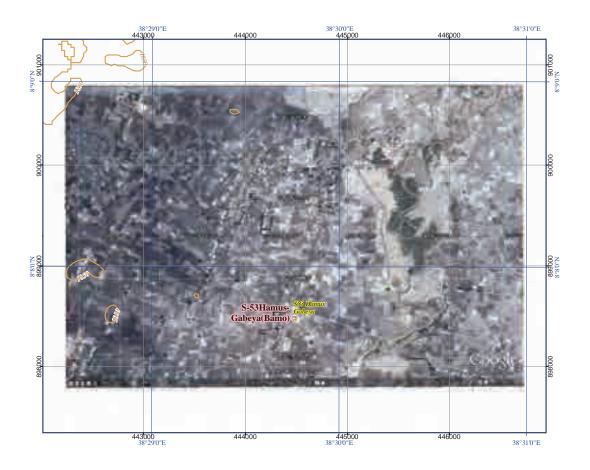
S-53 H. Gebeya

	SNNPR		42 / 52	
	Name of small town :	Hamus Gabeya (	Bamo) S- 53	
	Name of Woreda :	Meskan	SW- 02	1
	Name of Zone :	Gurage	SZ- 01	
		Garage	Profile	٠.
. 1	Profile items		Frome	!
)1	Population Town male / female / total	by SNNPR	2,088 2,064 4,152	,
	Town male / female / total Woreda male / female / total	by Census 2007	2,088 2,064 4,152 78,393 81,491 159,884	
	percentage of Town in Woreda	by Cellsus 2007	2.6%	
)2	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	444381 898358 1,839	_
	Town Status		Kebele Association	
	Water Source			
	04-01 Water source	Type, No.	BH Well * 3nos.	
		Depth., Casing Dia., S.W.L, Yield	Not grasped	
	04-03 Method of water draw	Pump, Gravity	Pump	_
	04-04 Pump Spec.	Type, Yield	Hand pump	ļ
	04-05 Power source for motorized pump	Type, Kva	Manual	-
	04-06 Durartion of water draw (Operation hours) 04-07 Water quality	daily hours, time Iron, Fluorideetc.	06:30-09:00, 11:00-14:00, 16:00-18:00 (7.5hrs/day) Good	-
	04-07 water quanty 04-08 Other technical specimen	non, Fluorideetc.	0000	-
	ot one termical specificil			<del> </del>
)5	Existing Water Supply Facilities			t
	05-01 Established year	(Gregorian calendar)	2001	†
	05-02 Financial of implementation	Donor's name	Kale Hiowt Catholic church	1
	05-03 Name of implementation (Project name)		Hamus-Gebeya water project	
	05-04 Intake Type		Shallow well	
	05-05 Intake No.		3nos.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.	
	05-07 Power to convey	Pressure, Gravity	nil.	ļ
	05-08 Water treatment	Disinfection, Ironetc.	nil.	ļ
	05-09 Water treatment capacity	m3/day	nil.	ļ
	05-10 Water reserver type 05-11 Water reserver No.	Type no.	nil.	-
	05-11 Water reserver No. 05-12 Water reserver Capacity	m3	nil.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	-
	05-14 Power to transmit	Pressure, Gravity	nil.	·
	05-15 Distribution Type	Pipe material, length	nil.	
	05-16 Power to distribute	Pressure, Gravity	nil.	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	nil.	
	05-18 Number of water point (Public Faucet, PF)	no.	3nos. (Hand Pumps)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.		
	05-20 Average of daily water consumption at a water point (I	PF) m3/day	6m3. (Hand Pump)	
	05-21 Number of House Connection (HC)	(6) 2/1	nil.	-
	05-22 Average of daily water consumption of House Connection(H 05-23 Number of Business Conection (BC)	(C) m3/day	nii.	
		hool, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection (B		nil.	
	05-26 Other technical specimen	, 1110/ aug		+
)6	Operation and Maintenace			T
	06-01 Organization's name		Water committee	
		Regional, Zone, Enterpriceetc.		
	06-03 Number of thechnical staff		nil	<u> </u>
	06-04 Principal works of technical staff		nil	
	06-05 Number of the financial staff		nil	ļ
	06-06 Principal works of financial staff	ND: H	nil	ļ
	<u> </u>	W.Point, House Connectionetc.	W. Point (Hand pump)	ļ
	06-08 Water tariff rate Water point (Public faucet)	Rirr/I 201	12birr/year/household	$\vdash$
	House connection	Birr/L, 20L Birr/m3	nil.	┼
	Business connection	Birr/m3	nil.	<del> </del>
	06-09 Average monthly income by water tariff	Birr/month	230birr/month (2,760birr/year)	<del> </del>
			Butajira	<del> </del>
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		<b>-</b>
		nal office, Private companyetc		1
	06-13 Principal serious repair with 5-10 years		Pump broken	
		Organization, Gov., Donorsetc.	Water committee	1
	00-14 Fund for above 0-05, 0-10			

S-53 H. Gebeya

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wat	er	
	Water supply facility Decrepit, leakage, design failureetc	no network		
	07-02 Finalcial			
	Management	Not organized	d staff	
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	Not grasped		
	Shortage of budget to execute operation & maintenace	Not grasped		
	07-03 Other incidential, Special specimen	*1		
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc 07-04 Other specimen	.1111.		
	07-04 Other specimen	***************************************		
00	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	<u> </u>		
00	Town is on flat area			
	Town is on flat area			
09	Necessary Institution (Facility, Material)			
07	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		22%	
١	6m3*3PF+0m3*0HC+0m3*0BC)=18m3/day 18m3/20Lpcd.=900persons 900persons/4,152population=22%			
	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/4152population=??%	L		
11	Water Potential (A / B / C / D / E)		В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B / A	
	A=Road Width > $6m /B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$		ľ	
	Access road is Asphalt & Sub grade 18km from Butajira. (=13+5 from Burajira)			
13	Manpower Capability of Water Supply Management by Water Office (point)		5	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
13				
13	***	hnology. The	small town is on the	
13	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec- generally flat terrains, construction work is not difficult.	hnology. The	small town is on the	***************************************
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec- generally flat terrains, construction work is not difficult.	hnology. The	small town is on the	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's			
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's	hnology. The		
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group			
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions	Meskan Gura	ige, Merego	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town	Meskan Gura		
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced teces generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town  km	Meskan Gura	nge, Merego Private clinic, Health pos	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced teces generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year	Meskan Gura Health Center, 15 Mararia	nge, Merego Private clinic, Health post	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced teces generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year	Meskan Gura Health Center, 15 Mararia Diarrhea	ge, Merego  Private clinic, Health pos  1,500 500	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tecesion generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year	Meskan Gura  Health Center, 15  Mararia Diarrhea Dysentery	nge, Merego  Private clinic, Health pos  1,500  500  200	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid	pge, Merego  Private clinic, Health post  1,500  500  200  100	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km  -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	Meskan Gura  Health Center,  15  Mararia  Diarrhea  Dysentery  Typhoid others  Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	Private clinic, Health pos 1,500 500 200 100 200	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tect generally flat terrains, construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Main economic activities  Remarks:  Mr. Tigist Mengistu Dev't A Mr. Sebrala Ahemed Chair p	Meskan Gura Health Center, 15 Mararia Diarrhea Dysentery Typhoid others Farming, Tra	nge, Merego  Private clinic, Health pos  1,500 500 200 100 200 de	

S-53 H. Gebeya



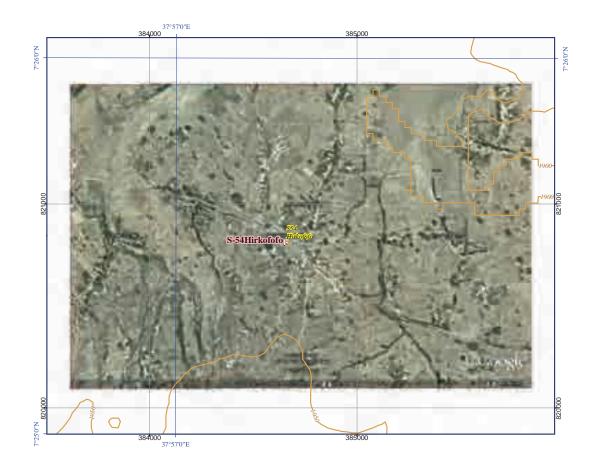
S-54 Hirkofofo

SNNPR			43 / 52	
Name of small town		Hirkofofo	S- 54	
Name of Woreda		Shashago	SW- 05	
Name of Zone	:	Hadiya	SZ- 02	
	Profile items		Profile	!
01 Population				
Town	male / female / total	by SNNPR	1,334 1,256 2,590	l
Woreda	male / female / total	by Census 2007	51,777 50,687 102,464	İ
percentage of Town in ' 72 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	2.5% 384570 820680 1,896	
O3 Town Status	C 1111 (Fidindan)	Dasting / Worting / Fit.	Town Administration	
04 Water Source				
04-01 Water source		Type, No.	Well * 1no. (shallow well)	ļ
04-02 Well spec. 04-03 Method of water draw		Depth., Casing Dia., S.W.L, Yield Pump, Gravity	Not grasped Pump	
04-04 Pump Spec.		Type, Yield	Hand Pump	
04-05 Power source for motor	ized pump	Type, Kva	Manual	İ
04-06 Durartion of water draw	v (Operation hours)	daily hours, time	06:00-13:00, 15:00-18:00 (10hrs./day)	
04-07 Water quality		Iron, Fluorideetc.	Good	
04-08 Other technical specime	<u>en</u>			ļ
05 Existing Water Supply Facility	ies			$\vdash$
05-01 Established year		(Gregorian calendar)	2008	l
05-02 Financial of implementa	ation	Donor's name	UNICEF	
05-03 Name of implementatio	n (Project name)		Hirko water project	
05-04 Intake Type			Well (Shallow well)	ļ
05-05 Intake No. 05-06 Conveyance Type (Wat	er cource - Pacarvoir)	Pipe material, length	lno. (Hand pump)	
05-07 Power to convey	ci source ~ Reservoir)	Pressure, Gravity	nil.	
05-08 Water treatment		Disinfection, Ironetc.	nil.	l
05-09 Water treatment capacit	y	m3/day	nil.	
05-10 Water reserver type		Туре	nil.	
05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	nil.	ļ
05-12 Water reserver Capacity 05-13 Transmission Type (Bo			nil.	
05-14 Power to transmit	oster pamp om Treservon	Pressure, Gravity	nil.	İ
05-15 Distribution Type		Pipe material, length	nil.	
05-16 Power to distribute		Pressure, Gravity	nil.	
05-17 Structure Type of water		RC, Masonry, Pipeetc		
05-18 Number of water point 05-19 Number of faucet at a w	······································	no.	nil.	
05-20 Average of daily water			nil.	
05-21 Number of House Conn			nil.	
05-22 Average of daily water consu		m3/day	nil.	
05-23 Number of Business Co			nil.	ļ
05-24 Type of Business Conne 05-25 Average of daily water consum		y, School, Gov. office, Hospitaletc m3/day	nil.	
05-26 Other technical specime		III3/day	1111.	
Operation and Maintenace				
06-01 Organization's name		D : 17 D :	Hirko water system	ļ
06-02 Type of organization 06-03 Number of thechnical st	taff	Regional, Zone, Enterpriceetc	Community based organization	
06-04 Principal works of tech	······································		nil.	<del> </del>
06-05 Number of the financial			nil.	
06-06 Principal works of finar	ncial staff		nil.	
06-07 Categories of water tari	ff	W.Point, House Connectionetc	. W. point (Hand pump)	ļ
06-08 Water tariff rate Water point (Public fau	ant)	Dim/L 201	1 Objec/month /household	<u> </u>
House connection	LEI)	Birr/L, 20L Birr/m3	1.0birr/month /household nil.	ļ
Business connection		Birr/m3	nil.	ļ
06-09 Average monthly incom	ne by water tariff	Birr/month	300birr/month	Ĺ
		at Town, Zonal Cap. Reg. Capetc		
06-10 Procurement of spare page		O:1 C14 E1 C14 D:4-	Hand pump parts (Seal, o-ring)	1
06-11 Principal spare parts				ļ
06-11 Principal spare parts 06-12 Method in case of serio		egional office, Private companyetc	Woreda	
06-11 Principal spare parts	with 5-10 years		Woreda nil.	

S-54 Hirkofofo

07	Problem of actual town water supply	1		I
07	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wat	er	1
	Water supply facility Decrepit, leakage, design failureetc	Design failur	е	
	07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection Personnel expenses	Not grasped low		
	Shortage of budget to execute operation & maintenace		get for O&M	
	07-03 Other incidential, Special specimen	Bhortage bad	get for occin	<b></b>
	Increase in population to consume water coming from other towns, villagesetc	coming from	villagers	
	Change in industry increase factory, Tradingetc			
	Human conflict Ethnic, Administrativeetc.	nil.		ļ
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.	)		
00	Town is on the flat area	/		
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			ļ
				<del> </del>
10	Current Water Coverage (%) (by water consumption at faucets)		12%	t
	(6m3*1PF+0m3*0HC+0m3*0BC)=6m3/day 6m3/20Lpcd.=300persons 300persons/2,590pe	opulation=12%		
	Current Water Coverage (%) (by water product at wells and/or springs)		?? %	
	(?L.sec.*3600sec.*24hrs)=??L/day ??/20Lcd=??persos ??persons/2590population=??%			
11	Water Potential (A / B / C / D / E)		В	ļ
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	D / A	<u> </u>
12	Accessibility $(A / B / C / D / E)$ A=Aspiral/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not A=Road Width > 6m/B= >3~6m/C= 1~3m/D=<1m	1 spproacticu	D / A	<del> </del>
	Access road is Sub grade road (only dry season) 22km from Hosaina through S07 Lisana			
13	Manpower Capability of Water Supply Management by Water Office (point)		4	
				ļ
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech	nology The	emall town is on the	
	generally flat terrains, construction work is not difficult.	mology. The s	sman town is on the	
1.0				ļ
16	Other Donors, NGO's			ļ
				<del> </del>
17	Main Ethnic Group	Hadiya		
18	Health conditions			<u> </u>
	-1 Medical facilities in Town		r, Private clinic, Drug stor	re
	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Mararia 81	1,976	<del> </del>
	-3 Main patients of water born diseases persons / year	Dysentery	1,700	
		Diarrhea	1,450	<b> </b>
		Typhoid	600	
		others	1,200	
19	Main economic activities	Trade, Farmi	ng, Livestock	ļ
20	Particular comments :			<u> </u>
20	Particular comments: This small town is a priority of improvement of accessibility of operation & maintenance.			<del> </del>
	2.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2			<del>                                     </del>
				L
21	Remarks:			
	Access from Hosaina is unpaved road. (Maddy during rainy season)			ļ
	A. ALLE P.M.L. W. L.	M 1 0015	721226	ļ
Mac	Ato Abdulkadir Mohamed Woreda water supply process own	er iviob. 0916	131230	<u> </u>
ivien	no (Town sketchetc.):	1		
	-			
	-			
	•			
	-			

S-54 Hirkofofo



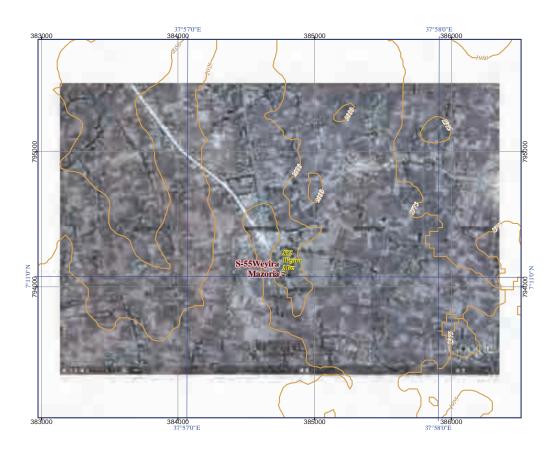
S-55 Meyita Mazoria

Name of sm	R :		Weyira Ma	zoria	S- :	/ 52 <b>55</b>
Name of Wo			Misrak Bada		SW- (	
Name of Zo			Hadiy		SZ-	
Name of 20		**	riadiy	<u> </u>		02
01 Population	Profile	items			Profile	
Town	male / fer	nale / total	by SNNPR	4,21	15 4,131	8,346
Woreda		nale / total	by Census 2007	72,35	,	145,187
	of Town in Woreda					5.7%
2 Town Coordination	on UTM (Ad	lindan)	Easting / Northig / Alt.	38467		2,028
O3 Town Status O4 Water Source				Town Adn	ninistration	
04-01 Water sour	re		Type, No.	Well * 1		
04-02 Well spec.		Det	oth., Casing Dia., S.W.L, Y		memo	
04-03 Method of	water draw		Pump, Gravity	Pump		
04-04 Pump Spec	,		Type, Yield	Motorizes	. <del>^</del>	
	ce for motorized pump		Type, Kva		35kva (broken)	
	f water draw (Operation hor	urs)	daily hours, time		oned since 2005	
04-07 Water qual			Iron, Fluorideetc.	Good nil.		
04-08 Other techn	icai specimen			m11.		
05 Existing Water St	apply Facilities					
05-01 Established			(Gregorian calendar)	1983		
05-02 Financial o	fimplementation		Donor's name	SNNPR		
	plementation (Project name	e)			azoria Water Sur	oply Project
05-04 Intake Typ	;			Well		
05-05 Intake No.				1		
05-06 Conveyance	e Type (Water source ~ Res	servoir)	Pipe material, length	GIP 2" L=	600m	
05-07 Power to co			Pressure, Gravity Disinfection, Ironetc.			
05-09 Water treat			m3/day	nil.		
05-10 Water reser			Type	ER		
05-11 Water reser			no.	1 no.		
05-12 Water reser			m3	4m3.		
<u></u>	on Type (Booster pump Stn.	. ~ Reservoir)	Pipe material, length	-		
05-14 Power to tr			Pressure, Gravity	-		
05-15 Distributio			Pipe material, length		/4" / L=1,000m	
05-16 Power to d	stribute ype of water point (Public F	Cougot DE)	Pressure, Gravity RC, Masonry, Pipe	Gravity oto Mosonry		
	water point (Public Faucet,		no.	1		
,	faucet at a water point (Pub.		no.	6		
	daily water consumption at		) m3/day	not functio	ned	
	House Connection (HC)		-	36		
	aily water consumption of Hou	use Connection(HC)	m3/day	not functio	ned	
<u></u>	Business Conection (BC)			2		
	siness Connection (BC)		ol, Gov. office, Hospital			
05-26 Other tech	aily water consumption of Busin	less Connection (BC	) m3/day	not functio	nied	
05-20 Other techn	тем эресписи			1111.		
Operation and Ma	intenace					
06-01 Organization					er supply office	
06-02 Type of org		R	egional, Zone, Enterprice.	.etc Town		
06-03 Number of	······································			(1)		
	orks of technical staff			(Pump ope	eration)	
	the financial staff			(4)	t D:II	-4- \
00-00 Principal W	orks of financial staff	W	Point, House Connection		ter count, Bill House Connection	
			i omi, mouse Connection	.c.c. vv . FUIIII, I	Touse Connection	/11
06-07 Categories	(Public faucet)		Birr/L, 20L	(0.2birr/20	L)	
06-07 Categories 06-08 Water tarif			Birr/m3	(8.0birr/m3		
06-07 Categories 06-08 Water tarif			Birr/m3	(8.0birr/m3		
06-07 Categories 06-08 Water tarif Water poin House com Business co			D: / .1	1,460	(17,520birr/ye	ear)
06-07 Categories 06-08 Water tarif Water poin House com Business co 06-09 Average m	onthly income by water tarif		Birr/month			J
06-07 Categories 06-08 Water tarif Water poin House com Business co 06-09 Average m 06-10 Procureme	onthly income by water tarif nt of spare parts	at Tow	n, Zonal Cap. Reg. Cap	.etc. Sheshemar	ne, Sodo, Awas	
06-07 Categories 06-08 Water tarif Water poin House con Business co 06-09 Average m 06-10 Procureme 06-11 Principal sj	onthly income by water tarif at of spare parts pare parts	at Tow O	n, Zonal Cap. Reg. Cap il filter, Fuel filter, Pipes .	.etc. Sheshemar etc Filter for C	ne, Sodo, Awas; GE, Water Meter	
06-07 Categories 06-08 Water tarif Water poin House con Business co 06-09 Average m 06-10 Procureme 06-11 Principal sj	onthly income by water tarif at of spare parts ware parts case of serious repair	at Tow O by Regional	n, Zonal Cap. Reg. Cap	etc. Sheshemar etc Filter for C etc Regional o	ne, Sodo, Awas GE, Water Meter office	
06-07 Categories 06-08 Water tarif Water poin House con Business co 06-09 Average m 06-10 Procureme 06-11 Principal sj	onthly income by water tarif at of spare parts pare parts case of serious repair rious repair with 5-10 years	at Tow O by Regional	n, Zonal Cap. Reg. Cap il filter, Fuel filter, Pipes .	etc. Sheshemar etc Filter for C etc Regional o Generaor b	ne, Sodo, Awas GE, Water Meter office oroken	, Pipe fittings

S-55 Meyita Mazoria

07	Ducklam of actual town water supply			$\neg$
	Problem of actual town water supply 07-01 Technical	Not function	ed whole sys	
	Water source Quantity, Qualityetc.	Not function No response		
	Water supply facility Decrepit, leakage, design failure			
	07-02 Finalcial	Cilciator W		
	Management	Not function	ed whole sys	_
	Rate of water tarrif collection	No response		1
	Personnel expenses	No response		
	Shortage of budget to execute operation & maintenace	No income		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villages			
	Change in industry increase factory, Trading			
	Human conflict Ethnic, Administrative			
	07-04 Other specimen	No response		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridge	etc.)		
	Town : Flat area along asphalt road			
00	Name of the Control of the Material			-
09	Necessary Institution (Facility, Material)  Generator repair and/or connection commercial elec. Line for power source of Motorized p	NI POPO		
	Adopt new Elevated reservoir	бипр		
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		0 %	+
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		· · · · · · · · · · · · · · · · · · ·	
	Current Water Coverage (%) (by data of water source product))		39%	
	((2.25L)*3600sec.*8hrs)=64800L/day 64800/20Lcd=3240persos 3240persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8340persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346persons/8346pers	opulation=39%	· · · · · · · · · · · · · · · · · · ·	┨
11	Water Potential (A / B / C / D / E)		В	$\top$
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E-		A/B	
	Town along the Asphalt road $A=Road\ Width > 6m\ /B=>3\sim 6m\ /\ C=1\sim 3m\ /\ D=<1m$			
	Access road from Sodo & Sheshemane is asphalt paved. * Refer to Chapter 5 "Table 5-7:	Categories of acc		
13	Manpower Capability of Water Supply Management by Water Office (point)		12	
				_
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
1.5	New Water County Dies			+
13	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced	technology. The	small town is on the	
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			+
	Refer to the Chapter 6	***************************************	***************************************	
17	Main Ethnic Group	Hadiya		
18	Health conditions			
	-1 Medical facilities in Town			
		Health post		
	-2 Nearest other facilities from Town km	55		
		55 Diarrhea	2,058	
	-2 Nearest other facilities from Town km	55 Diarrhea Malaria	503	
	-2 Nearest other facilities from Town km	55 Diarrhea Malaria Typhoid	503 482	
	-2 Nearest other facilities from Town km	55 Diarrhea Malaria Typhoid Dysentery	503 482 192	
10	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	55 Diarrhea Malaria Typhoid Dysentery others	503 482	
19	-2 Nearest other facilities from Town km	55 Diarrhea Malaria Typhoid Dysentery	503 482 192	
19	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities	55 Diarrhea Malaria Typhoid Dysentery others	503 482 192	
	-2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	
	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
	-2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:	55 Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:  no (Town sketchetc.):	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:  no (Town sketchetc.):	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:  no (Town sketchetc.):	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:  no (Town sketchetc.):	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	oon
20	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:  no (Town sketchetc.):	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on
220	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year  Main economic activities  Particular comments:  The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this for the residents is serious.  Remarks:  no (Town sketchetc.):	Diarrhea Malaria Typhoid Dysentery others Farming	503 482 192 79	on

S-55 Meyita Mazoria



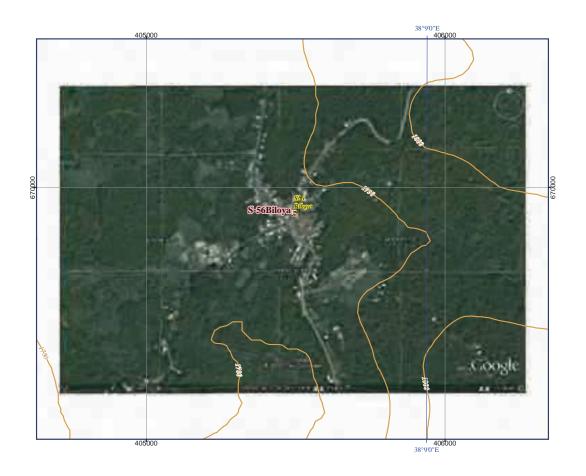
S-56 Biloya

	SNNPR				45 /	
	Name of small town :		Biloya		S- 5	
	Name of Woreda :		Kochore		SW- 2	
	Name of Zone :		Gedeo		SZ- 0	5
	Profile ite	ms			Profile	
01	Population					
	Town male / femal		by SNNPR	2,194	2,290	4,484
	Woreda male / femal percentage of Town in Woreda	e / totai	by Census 2007	65,235	66,183	131,418 3.4%
02	Town Coordination UTM (Adino	dan)	Easting / Northig / Alt.	405405	669769	1,965
	Town Status	,		Town Administ	ration	
04	Water Source					
	04-01 Water source 04-02 Well spec.	Dont	Type, No. h., Casing Dia., S.W.L, Yield	Spring*1no.		
	04-03 Method of water draw	Дері	Pump, Gravity	Gravity		
	04-04 Pump Spec.		Type, Yield	nil.		
	04-05 Power source for motorized pump		Type, Kva	nil.		
	04-06 Durartion of water draw (Operation hours	)	daily hours, time	06:00~09:00, 15	5:00~17:00 (	5hrs/day)
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen					
05	Existing Water Supply Facilities					
	05-01 Established year		(Gregorian calendar)	1991		
	05-02 Financial of implementation		Donor's name	Gedo Developn		
	05-03 Name of implementation (Project name)			Biloya Water Su	apply Project	t
	05-04 Intake Type 05-05 Intake No.			Spring 1no.		
	05-06 Conveyance Type (Water source ~ Reserv	oir)	Pipe material, length	GIP, 1*1/2", 50	0m	
	05-07 Power to convey		Pressure, Gravity	Gravity		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type 05-11 Water reserver No.		Type no.	GR 1no.		
	05-11 Water reserver No.		m3	1m3		
	05-13 Transmission Type (Booster pump Stn. ~	Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit		Pressure, Gravity	nil.		
	05-15 Distribution Type		Pipe material, length	Not grasped		
	05-16 Power to distribute 05-17 Structure Type of water point (Public Fau	ant DE)	Pressure, Gravity RC, Masonry, Pipeetc	Gravity Monsonry		
	05-17 Structure Type of water point (Public Faucet, PF		no.	2		
	05-19 Number of faucet at a water point (Public	<del></del>	no.	6		
	05-20 Average of daily water consumption at a	water point (PF)	m3/day	2m3/day		
	05-21 Number of House Connection (HC)			nil.		
	05-22 Average of daily water consumption of House 05-23 Number of Business Conection (BC)	Connection(HC)	m3/day	nil.		
	05-24 Type of Business Connection (BC)	Factory Schoo	l, Gov. office, Hospitaletc			
	05-25 Average of daily water consumption of Business		m3/day	nil.		
	05-26 Other technical specimen					
0.4						
06	Operation and Maintenace 06-01 Organization's name			Water committee		
	06-02 Type of organization	Res	gional, Zone, Enterpriceetc			ion
	06-03 Number of thechnical staff	TC	Sionai, Zone, Enterpriceet	nil.	0.018.11112.11	
	06-04 Principal works of technical staff			nil.		
	06-05 Number of the financial staff			3		
	06-06 Principal works of financial staff	W/D	-i-t II Ctit-	Water sale .W. Point		
	06-07 Categories of water tariff 06-08 Water tariff rate	W.P	oint, House Connectionetc	. W. Pollit		
	Water point (Public faucet)		Birr/L, 20L	15birr/year/hous	sehold	
	House connection		Birr/m3	nil.		
	Business connection		Birr/m3	nil.		
	06-09 Average monthly income by water tariff		Birr/month	300birr/month		
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc			
	06-11 Principal spare parts 06-12 Method in case of serious repair		filter, Fuel filter, Pipesetc office, Private companyetc			
	06-13 Principal serious repair with 5-10 years	by Regional (	onice, i nvate companyett	nil.		
	06-14 Fund for above 6-09, 6-10	by Orga	nization, Gov., Donorsetc		e	
	06-15 Other technical specimen					

S-56 Biloya

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shrtage water		
	Water supply facility Decrepit, leakage, design failureetc	Leakage from	n pipe lines	
	07-02 Finalcial			
	Management	Lack of skill	ed manpower	
	Rate of water tarrif collection	Not grasp	-	
	Personnel expenses	Not grasp		
	Shortage of budget to execute operation & maintenace	Not grasp		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc	nil.		
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc			
	07-04 Other specimen			
	or of other specifical	***************************************		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
00	Slope of mountain			
	Stope of infountatin			
00	N Indication (February Metanial)			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
<u></u>	C (W) C (0) A ( C C C)		40:	
10	Current Water Coverage (%) (by water consumption at faucets)		4%	
	(2.0m3*2PF+0m3*0HC+0m3*0BC)=4.0m3/day 4.0m3/20Lpcd.= 200persons 200persons	4,484 popula	p	
l	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*24hrs)=??L/day ??/20Lcd=??persos ??persons/4484population=??%			
11	Water Potential (A / B / C / D / E)		C	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	C/C	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access is Asphalt & Sub grade (Maddy in wet season) 53km from Dila. (45+8km from Dila)			
13	Manpower Capability of Water Supply Management by Water Office point)		8	
			ļ	
14	Dgree of urgency (A / B / C / D / E)			
14	Refer to Chapter 5 & 7			
	Refer to Chapter 3 & 7	***************************************		
15	New Water Supply Plan			
13	New Water Supply Fran			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec-	hnology. The	small town is on	the
	generally flat terrains, construction work is not difficult.			
1.0	OI D NGO!			
10	Other Donors, NGO's			
1.7	M. Fl. C	G 1		
17	Main Ethnic Group	Gedeo		
10				
18	Health conditions			
		Health post		
	-2 Nearest other facilities from Town km	54		
	-3 Main patients of water born diseases persons / year	Mararia	100	
1	<u> </u>	Diarrhea	80	
l		Cholera	75	
l		Diarrhea	60	
		Typhoid	55	
19	Main economic activities	Farming, Tra	ade	
oxdot				
20	Particular comments :			
l	The existing water supply facility was constructed by NGOon 1991. This facility has 1 spring	ac water corr	ce which is not st	taible by
		as water sour	ce which is not si	laible by
	seasonal water product. Hence, this facility can not supply enough amount of water.			
21	Remarks:			
l		***************************************		
Mon	oo (Town skotch ota):			
ivien	no (Town sketchetc.):			L
-				<del></del> 1
ļ				
L	•			***************************************

S-56 Biloya



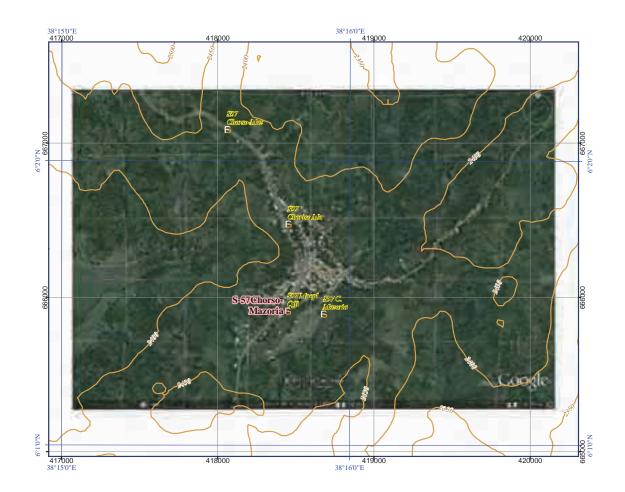
S-57 Chorso Mazoria

	SNNPR				46 / 5	2
	Name of small town	:	Chorso Maz	oria	S- 57	
	Name of Woreda		Gedeb		SW- 21	
	Name of Zone	:	Gedeo		SZ- 05	
	Name of Zone	Profile items	00000		Profile	!
01	Population	1 Torne items		,	Tome	+
01	Town	male / female / total	by SNNPR			8,500
	Woreda	male / female / total	by Census 2007	73,480	73,252	146,732
	percentage of Town in Wore					5.8%
	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	418355 Municipality	665767	2,445
	Water Source			Municipanty		
	04-01 Water source		Type, No.	Well*3nos, Spring*	1no. (0.5L/sec	or less)
	04-02 Well spec.		Depth., Casing Dia., S.W.L	see below memo		
	04-03 Methor of water draw		Pump, Gravity	Manual, Graviry (Sp	oring On-spot)	
	04-04 Pump Spec. 04-05 Power source		Type, Yield Type, Kva	Hand pump nil.		
	04-06 Durartion of water draw		daily hours, time	see below memo		
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen			nil.		
0.7						
05	Existing Water Supply Facilities 05-01 Established year		(Cracorion colondor)	1998 / 2005		
	05-02 Financial of implementation		(Gregorian calendar)  Donor's name	IRC		
	05-03 Name of implementation			Choriso Mazoria wa	ter project	
	05-04 Intake Type			Well, Spring		
	05-05 Intake No.			Well*3 nos., Spring		
	05-06 Conveyance Type (Water so 05-07 Power to convey	urce ~ Reservoir)	Pipe material, length Pressure, Gravity	PVC 10m for On-sp Gravity for On-spot	ot	
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Туре	nil.		
	05-11 Water reserver No.		no.	nil.		
	05-12 Water reserver Capacity	Ct. D	m3	nil.		
	05-13 Transmission Type (Booster 05-14 Power to transmit	pump Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.		
	05-15 Distribution Type		Pipe material, length	nil.		
	05-16 Power to distribute		Pressure, Gravity	nil.		
	05-17 Structure Type of water poin		RC, Masonry, Pipeetc.	Mansonry of On-spo		
	05-18 Number of water point (Pub		no.	1 (Hand pump) , 1 (		
	05-19 Number of faucet at a water 05-20 Average of daily water const		no. m3/day	1 (Hand pump), 2 ( 1.6m3/day (Hand Pu		V
	05-20 Average of daily water constitution of House Connection		m3/day	nil.	imp), +3m3/ua	у
	05-22 Average of daily water consum		m3/day	nil.		
	05-23 Number of Business Conecti			nil.		
	05-24 Type of Business Connection 05-25 Average of daily water consumption		l, Gov. office, Hospitaletc	nil. nil.	***************************************	
	05-26 Other technical specimen	tion of Business Connection (BC)	m3/day	nil.		
	os 20 otner teenmear speemen					
06	Operation and Maintenace					
	06-01 Organization's name			Water committe		
	06-02 Type of organization 06-03 Number of thechnical staff	Re	gional, Zone, Enterpriceetc	Committee 4	***************************************	
	06-03 Number of thechnical staff	etaff		Repair		
	06-05 Number of the financial staff			1		
	06-06 Principal works of financial	staff		Cash correction		
	06-07 Categories of water tariff	W.P	oint, House Connectionetc.	W.Point (Hand pum	p)	
	06-08 Water tariff rate		D; /I 20I	0.11: /001 . 6.01:	/ // 1	11
1	Water point (Public faucet) House connection		Birr/L, 20L Birr/m3	0.1birr/20L + 6.0 bir nil.	T/year/nouseho	Duid
	Business connection		Birr/m3	nil.		
	06-09 Average monthly income by	water tariff	Birr/month	100birr/month		
1	06-10 Procurement of spare parts			Dila		
1	06-11 Principal spare parts		filter, Fuel filter, Pipesetc	Piston, Coupling of	Hand pumps	
1	06-12 Method in case of serious re	t	office, Private companyetc	No answer No answer		
1	06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		nization, Gov., Donorsetc.	Woreda, Zone	***************************************	
1	06-15 Other technical specimen	by Olga		nil.		
1						

S-57 Chorso Mazoria

07	Problem of actual town water supply				
	07-01 Technical	0 2 0 1	NT		
	Water source Water supply facility	Quantity, Qualityetc. Decrepit, leakage, design failureetc	No answer	nannower and renair tool	c
	07-02 Finalcial	Decrepit, icakage, design famureetc	Lack of skilled in	nanpower and repair toor	3
	Management		No answer		
	Rate of water tarrif collection		No answer		
	Personnel expenses		No answer		
	Shortage of budget to execute operation	& maintenace	No answer		
	07-03 Other incidential, Special specimen				
	Increase in population to consume water Change in industry	coming from other towns, villagesetc increase factory, Tradingetc.			
	Human conflict	Ethnic, Administrativeetc			
	07-04 Other technical specimen	Etiliic, Administrativeetc	nil.		
	or or other teerment specimen			***************************************	
08	Geographical condition (Slope on m	ountaion, bottom of valley, Top of ridgeetc.)	)		
	Town is top of ridge gently.				
00	NI I COLOR OF THE MARKET				
09	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"				
	Refer to Chapter 4 Table 4.7				
10	Current Water Coverage (%) (by water consum	nption at faucets)		26%	1
	(1.6m3*1HP+43.0m3*1SP)=44.6m3/day 44.6	6m3/20Lpcd.= 2230 persons 2230 persons / 85	500 population =	8%	
	Current Water Coverage (%) (by data of water	r source product))		%	
11	Water Potential (A/B/C/D/E)			С	
12	Accessibility (A / B / C / D / E) A=Asphalt/I	B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	Not Approached	A/C	+
12		$V_{\text{idth}} > 6 \text{m /B} = > 3 \sim 6 \text{m / C} = 1 \sim 3 \text{m / D} = < 1 \text{m}$	voi Approacticu	A/C	
	Access road is Asphalt road 59km from Dila.	* Refer to Chapter 5 "Table 5-7: Categories of a	accessibility"		
13	Manpower Capability of Water Supply Manag			9	
	Staff of water committee does not grasp datail	of Hand pumps (Manufacturer, typeetc.)			
14	Dgree of urgency (A / B / C / D / E)				
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7  New Water Supply Plan				
	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st.	andard, whichis not required more advanced tec	hnology. The small	all town is on the gentle s	slope,
	Refer to Chapter 5 & 7  New Water Supply Plan	andard, whichis not required more advanced tec	hnology. The small	all town is on the gentle s	slope,
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st.	andard, whichis not required more advanced tec	hnology. The sma	all town is on the gentle s	slope,
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.	andard, whichis not required more advanced tec	hnology. The small	all town is on the gentle s	slope,
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.  Other Donors, NGO's	andard, whichis not required more advanced tec		all town is on the gentle s	slope,
15	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.	andard, whichis not required more advanced tec	hnology. The sma	all town is on the gentle s	slope,
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stronstruction work is not difficult.  Other Donors, NGO's  Main Ethnic Group	andard, whichis not required more advanced tec		all town is on the gentle s	slope,
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions	andard, whichis not required more advanced tec	Gedeo, Oromo	all town is on the gentle s	slope,
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stronstruction work is not difficult.  Other Donors, NGO's  Main Ethnic Group	andard, whichis not required more advanced tec		all town is on the gentle s	slope.
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town		Gedeo, Oromo Health post	all town is on the gentle s	slope,
15 16	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Gedeo, Oromo  Health post 63		slope,
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases	km	Gedeo, Oromo  Health post 63  Dysentery Typhoid Diarrhea	200 150 127	slope,
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town	km	Gedeo, Oromo  Health post 63  Dysentery Typhoid Diarrhea	200 150	slope,
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian street construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities	km	Gedeo, Oromo  Health post 63  Dysentery Typhoid Diarrhea	200 150 127	slope,
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions  -1 Medical facilities in Town  -2 Nearest other facilities from Town  -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year	Gedeo, Oromo  Health post 63 Dysentery Typhoid Diarrhea Farming, Trade,	200 150 127 Waving, Livestock	
15 16 17 18	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stronstruction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  The eixisting water supply facility has three Health conditions and conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the s	km persons / year  and-pumps (2of them are out of order) and 1 spr	Gedeo, Oromo  Health post 63 Dysentery Typhoid Diarrhea Farming, Trade,	200 150 127 Waving, Livestock	
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15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stronstruction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  The eixisting water supply facility has three Health conditions and conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supply facility has three Health conditions are supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the supplied to the s	km persons / year  and-pumps (2of them are out of order) and 1 spr	Gedeo, Oromo  Health post 63 Dysentery Typhoid Diarrhea Farming, Trade,	200 150 127 Waving, Livestock	
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115 116 117 118 119 220	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian stronstruction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  The eixisting water supply facility has three Hisupply enougth amount of water for the resider	km persons / year  and-pumps (2of them are out of order) and 1 spr	Gedeo, Oromo  Health post 63 Dysentery Typhoid Diarrhea Farming, Trade,	200 150 127 Waving, Livestock	
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15 16 17 18 19 20	Refer to Chapter 5 & 7  New Water Supply Plan  The facility can be designed in an Ethiopian st. construction work is not difficult.  Other Donors, NGO's  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  The eixisting water supply facility has three Hasupply enougth amount of water for the resider Remarks:	km persons / year  and-pumps (2of them are out of order) and 1 spr	Gedeo, Oromo  Health post 63 Dysentery Typhoid Diarrhea Farming, Trade,	200 150 127 Waving, Livestock	
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S-57 Chorso Mazoria



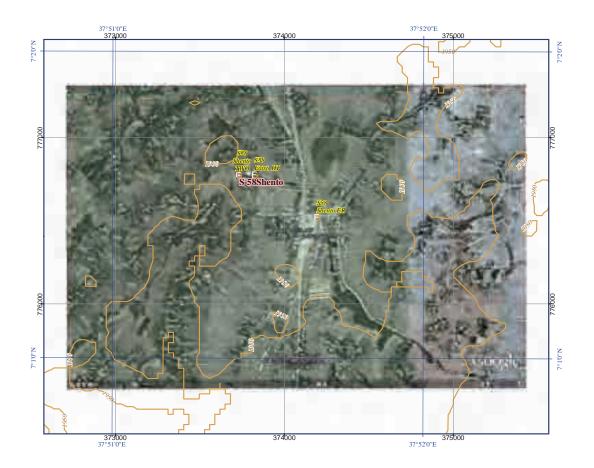
S-58 Shento

	SNNPR		47 / 52	
	Name of small town :	Shento	S- 58	
	Name of Woreda :	Damot Pula		
	Name of Zone :	Wolayita	SZ- 06	
	Profile items		Profile	!
01	Population	I CNINIDD	2.750	5 245
	Town male / female / total Woreda male / female / total	by SNNPR by Census 2007	2,759 2,586 52,962 55,121	5,345 108,083
	percentage of Town in Woreda	by Census 2007	32,702 33,121	4.9%
	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	373639 776639	1,966
	Town Status		Woreda Capital	
04	Water Source 04-01 Water source	Type, No.	Hamd Pump * 4nos. / Onspot Dist. Pipe form Aboka	Kebele
		epth., Casing Dia., S.W.L, Yield	Hand Dug Well (ID600RC Ring) / ?	. recour
	04-03 Method of water draw	Pump, Gravity	Manual / Pressure	
	04-04 Pump Spec.	Type, Yield	Hand pump (Afridev) / Motorized We	ll Pump
	04-05 Power source for motorized pump	Type, Kva	nil. / Generator HP 08:00~09:00 / Pipe line is not func	tionad
	04-06 Durartion of water draw (Operation hours) 04-07 Water quality	daily hours, time Iron, Fluorideetc.	Good / Good	tioned
	04-08 Other technical specimen	non, radinaeeee.	above 04-06 time is limited because of	f HP
			Well's yield is little (800L/well)	***************************************
05	Existing Water Supply Facilities		1000 (HP) (2001 (T)	
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar) Donor's name	1990 (HP) / 2001 (Pipe line) NGO Oxfam (HP) / SNNPR (Pipe Lin	(a)
	05-03 Name of implementation (Project name)	Donoi s name	Shiento water project	(e)
	05-04 Intake Type		Hand Dug Well (HP) / Deep Well (Pip	pe line)
	05-05 Intake No.		4 (HP) / 1 at Abota Kebele	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil. / GIP, 2", 5,000m fm. Abota town	
	05-07 Power to convey	Pressure, Gravity	nil. / Pressure fm. Abota Kebele nil. / nil.	
	05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc.	nil. / nil.	
	05-10 Water reserver type	Type	nil. / ER (Steel)	
	05-11 Water reserver No.	no.	nil. / 1no.	
	05-12 Water reserver Capacity	m3	nil. / 4m3	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit	Pipe material, length	nil. / nil. nil. / nil.	
	05-14 Power to transmit 05-15 Distribution Type	Pressure, Gravity Pipe material, length	nil. / On-Spot (below ER)	
	05-16 Power to distribute	Pressure, Gravity	nil. / Gravity (On-Spot)	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc	nil. / Masonry	
	05-18 Number of water point (Public Faucet, PF)	no.	nil. / 1no. / 3 New PF under construction by	SNNPR
	05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (F	no. PF) m3/day	nil. / 6nos. / 4nos. (new) 0.8m3/H.P / 12m3/day/On-spot (Not fi	unation
	05-21 Number of House Connection (HC)	r) III5/day	nil.	unction)
	05-22 Average of daily water consumption of House Connection(H	C) m3/day	nil.	
	05-23 Number of Business Conection (BC)		nil.	
		nool, Gov. office, Hospitaletc		
	05-25 Average of daily water consumption of Business Connection (E 05-26 Other technical specimen	sC) m3/day	nil. see below 16 Particular comments	
	00-20 Outer technical specificit		see below to Fatticular collillents	
06	Operation and Maintenace			
	06-01 Organization's name		Woreda Water Office	
	06-02 Type of organization 06-03 Number of thechnical staff	Regional, Zone, Enterpriceetc	Woreda	
	06-04 Principal works of technical staff		Maintenance & Repair of Hand Pumps	c
	06-05 Number of the financial staff		8	5
	06-06 Principal works of financial staff		Administration	
	<u> </u>	V.Point, House Connectionetc	W. Point (Hand pump) / On-spot	
	06-08 Water tariff rate	D: /I 20I	0.11; (201.11.D. (0.51; (201.0)	
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	0.1 birr/20L H.P. / 0.5 birr/20L On-sp nil.	rut .
	Business connection	Birr/m3	nil.	
	06-09 Average monthly income by water tariff	Birr/month	480 ~600birr (H.P) / 6,300~9,000birr (O	n-spot)
		wn, Zonal Cap. Reg. Capetc	Sodo, A.Minch, Awasa	
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipeset		ps
	06-12 Method in case of serious repair by Region 06-13 Principal serious repair with 5-10 years	al office, Private companyet	Zonal office	
		rganization, Gov., Donorsetc	Woreda Water Office	
	06-15 Other technical specimen	g	Woreda Water Office has been establis	shed 3
			years ago.	P*************************************

S-58 Shento

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
07	Problem of actual town water supply			
	07-01 Technical	Low skill of thec	hnical staff.	
	Water source Quantity, Qualityetc.	Water shortage		
	Water supply facility Decrepit, leakage, design failureetc	see below 16 Par	ticular comments	
	07-02 Finalcial	***************************************		
	Management	AUD	ID II C (III	
	Rate of water tarrif collection		nd Records before establish	
	Personnel expenses	Wareda Water O	ffice which were lost.	
	Shortage of budget to execute operation & maintenace			-
		No Transportatio	on (Motor bikeetc.)	
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.		11803 13 0311001 111101	
	Human conflict Ethnic, Administrativeetc			<b>†</b>
		nil.		
	or one specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
00	Shento town is on flat ground.			<b>-</b>
	Shento town as on that ground.			-
				-
-00	NI I ('A C (E 'II' M (A 'I)			-
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			-
				<b> </b>
			40::	<u> </u>
10	Current Water Coverage (%) (by water consumption at faucets)		13%	!
1	(0.8m3*3HP+12m3*1PF)=14.4m3/day 14.4m3/20Lpcd.= 720 persons 720 persons / 5345p	opulation = 13%		ļ
	Current Water Coverage (%) (by data of water source product))		??%	<u> </u>
	((??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/5345population=??%			ļ
11	Water Potential (A / B / C / D / E)		E	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	Not Approached	E/E	
	A=Road Width $> 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	Access road is Asphalt & Base course 16km from Sodo & 9km from Buditi.			
13	Manpower Capability of Water Supply Management by Water Office point)		15	
				†
14	Dgree of urgency (A / B / C / D / E)			
1 .	Refer to Chapter 5 & 7			
				<b>-</b>
15	New Water Supply Plan			
13		***************************************		
	The facility can be designed in an Ethiopian standard, which is not required more advanced tech	hnology. The sma	all town is on the generally fla	1t
	terrains, construction work is not difficult.			
16	Other Donors, NGO's			
10	Refer to the Chapter 6			
	Refer to the Chapter o			<del> </del>
17	Main Ethnic Group	Welayta		1
1 /	Within Ethinic Group	weiayta		<del> </del>
10	Health conditions			
10		Drivata clinia II	ealth post, Drug store	<del> </del>
1	-1 Medical facilities in Town -2 Nearest other facilities from Town km	28	and post, Ding stole	-
1	<u> </u>	***************************************	600	<del> </del>
1		Mararia Typhoid	600	<del> </del>
1	<del>}</del>	Typhoid	350	<del> </del>
10		Dysentery Trade Forming	150 Waying	1
19	Main economic activities	Trade, Farming,	vv aving	<del> </del>
20	Doubleviller comments :			1
20	Particular comments:		1 · D 2010	<del> </del>
	Water supply of On-spot facilities which distributed fm Abota Kebele has been suspended due			<b>+</b> .
-	New Public faucet (3nos.) are under construction by SNNPR, which PF to be distributed othe	Kebele by pipe lir	ne.	!
21	Remarks:		11' 6	-
	Out of the study area. The eixisting water supply facility has four Hand-pumps (2of them are o		-	
1	distributed by pipes from other town. Water amount of these Hand-pumps became low due to l	-		ļ
	day) and Spring facility (On-spot) is out of order. Hence, this facility can not supply enougth a	amount of water f	or the residents. New water	
<u></u>	supply faicility have a high beneficial effect.			
Men	no (Town sketchetc.):			
<u></u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
	04-01 & 02 Water source & Well spec.			
L	Well No.1; Estbsh on 1990 GL-30m / Conc. Caisson ID=600mm H=1,000mm / SWL	GL-??m / HP Sil	linder depth GL-29.6&29.0m	!
	Well No.2; Estbsh on 1990 GL-30m / Conc. Caisson ID=600mm H=1,000mm / SWI			1 !
	Well No.3; Estbsh on 1990 GL-24m / Conc. Caisson ID=600mm H=1,000mm / SWI	***************************************		
	Well No.4; Estbsh on 1990 GL-21m / Conc. Caisson ID=600mm H=1,000mm / SWI			
	Distribution pipe from Abota town; Esblsh on 2010 Current condition is not functione	***************************************		<u> </u>
	Current condition is not functioned	_ (500 01 01001 00		
	06-08 Water tariff rate			7
1	Residence buy water (2.0birr/20L) from Water saler who are coming from Doditi town	12km		<u> </u>
	1			
1				

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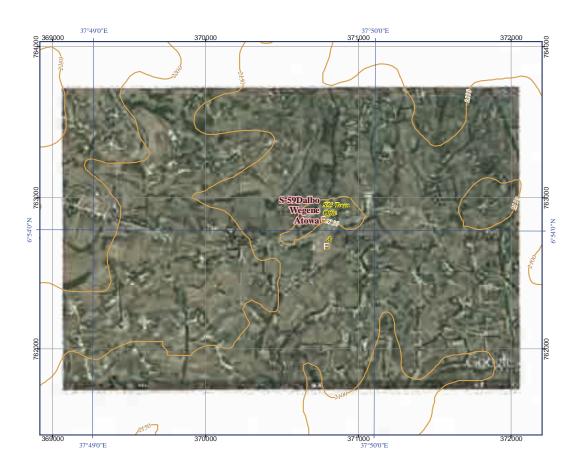
S-59 Dalbo Atowa

	SNNPR		48 / 52	
	Name of small town :	Dalbo Atow		
	Name of Woreda :	Sodo Zuria	SW- 38	
	Name of Zone :	Wolayita	SZ- 06	
	Profile items		Profile	!
01	Population Town male / female / total Woreda male / female / total	by SNNPR by Census 2007	4,772 80,525 83,246 163,771 2.9%	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	370680 762721 2,144	
03	Town Status		Town Administration	
04		Type, No. epth., Casing Dia., S.W.L, Yield	Spring*1no. (5km Tabala spring) Not grasped	
	04-03 Method of water draw	Pump, Gravity	Gravity	
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	nil.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	24hors.	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen		Spring source is shared with other towns	!
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1996	1
	05-02 Financial of implementation	Donor's name	World Vision	
	05-03 Name of implementation (Project name)		Dalbo water supply project	
	05-04 Intake Type 05-05 Intake No.		Spring 1no.	ļ
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 3", 5,000m	ļ
	05-07 Power to convey	Pressure, Gravity	Gravity	·
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Туре	ER	
	05-11 Water reserver No.	no.	1no.	
	05-12 Water reserver Capacity	m3	10m3	ļ
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	ļ
	05-14 Power to transmit 05-15 Distribution Type	Pressure, Gravity Pipe material, length	nil. GIP, 3"*1,000m, 1"*1/2*1,000m (Total 2,000m)	
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	Mansonry	·
	05-18 Number of water point (Public Faucet, PF)	no.	2	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	4FC*1PF, 2FC*1PF	
	05-20 Average of daily water consumption at a water point (P	F) m3/day	3m3/day	***********
	05-21 Number of House Connection (HC)		nil.	
	05-22 Average of daily water consumption of House Connection(He	C) m3/day	nil.	ļ
	05-23 Number of Business Conection (BC)		nil.	ļ
	05-24 Type of Business Connection (BC) Factory, Sch 05-25 Average of daily water consumption of Business Connection (B	nool, Gov. office, Hospitaletc.	nil.	
	05-26 Other technical specimen	C) m3/day	1111.	-
		_		
06	Operation and Maintenace		Water committee	
i	06-01 Organization's name 06-02 Type of organization	Regional, Zone, Enterpriceetc.	Water committe Community based organization	
	06-03 Number of thechnical staff	regional, Zone, Emerpriceetc.	2.	<del>                                     </del>
	06-04 Principal works of technical staff		Plumbing	<del> </del>
	06-05 Number of the financial staff		2	<del> </del>
	06-06 Principal works of financial staff		Water sale at PF	ļ
	06-07 Categories of water tariff W	V.Point, House Connectionetc.	W. point	
	06-08 Water tariff rate			
	Water point (Public faucet)	Birr/L, 20L	1birr/week/Household	ļ
	House connection	Birr/m3	nil.	ļ
	Business connection	Birr/m3	nil. 1,200birr/month	<b> </b>
	06-09 Average monthly income by water tariff 06-10 Procurement of spare parts at To	Birr/month wn, Zonal Cap. Reg. Capetc.		<b>-</b>
		Oil filter, Fuel filter, Pipesetc		<del> </del>
		al office, Private companyetc		<del> </del>
	06-13 Principal serious repair with 5-10 years		Woreda	
i		rganization, Gov., Donorsetc.	Water committee	<b>†</b>
11	06-15 Other technical specimen			
ı				1

S-59 Dalbo Atowa

_					
07	Problem of actual town water supply				4
	07-01 Technical				
	Water source Water supply facility De	Quantity, Qualityetc.	Wate r short	<u> </u>	_
	Water supply facility De 07-02 Finalcial	crepit, leakage, design failureetc	Design failui	re	
	Management		Not grasped		
	Rate of water tarrif collection		low		
	Personnel expenses		low		
	Shortage of budget to execute operation & maintena	ce	Shortage bud	lget for O&M	
	07-03 Other incidential, Special specimen				
		ng from other towns, villagesetc			
	Change in industry	increase factory, Tradingetc			
	Human conflict 07-04 Other specimen	Ethnic, Administrativeetc	.1111.		
	07-04 Other specimen		***************************************		
08	Geographical condition (Slope on mountaion, bo	ottom of valley, Top of ridgeetc.	)		
	Town is on flat area				
					-
09	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"				
	Refer to Chapter 4 Table 4.7				
					-
10	Current Water Coverage (%) (by water consumption at fau	icets)		6%	!
	(3m3*2PF+0m3*0HC+0m3*0BC)=6.0m3/day 6.0m3/20l		4,772 populat		
	Current Water Coverage (%) (by data of water source produced)			0%	
	((??L)*3600sec.*8hrs)=???L/day ????/20Lcd=???persos	???persons/4772population=???%	)	· -	
11	Water Potential (A / B / C / D / E)			A	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course.	/C-Suh Grade/D-Only Dry Socon/E-Mod	Annroachad	B/A	+
12		$B = 3 \sim 6 \text{m} / C = 1 \sim 3 \text{m} / D = <1 \text{m}$	Арргоаспец	D / A	-
	Access road is Asphalt & Sub grade road 9km from Sodo.				
13	Manpower Capability of Water Supply Management by W			10	
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				-
13					
	The facility can be designed in an Ethiopian standard, which	chis not required more advanced tec	hnology. The	small town is on the	
	generally flat terrains, construction work is not difficult.				
16	Other Donors, NGO's				
	Refer to the Chapter 6				_
17	Main Eduis Corre		W/-1 A	-l	
1/	Main Ethnic Group		Welayta, An	шага	
18	Health conditions				+
	-1 Medical facilities in Town		Health Cente	er, Private clinic, Health p	ost
	-2 Nearest other facilities from Town	km	13		
	-3 Main patients of water born diseases	persons / year	Dysentery	15	
10	N		m 1 n		1
19	Main economic activities		rade, Farm	ing, Livestock, Waving	-
20	Particular comments :				+
20	The eixisting water supply facility is one spring (On-spot)	where is located adjacent town and	constructed h	y NGO on 1996. This	
	facility can not supply enough amount of water for whole	_		•	
	faicility have a high beneficial effect.				
21	Remarks:				
		Mr. Mesfin Belete Kebele C		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		Mr. Pawlos Gizaw Water co			-
M	oc (Tourn sketch etc.)	Mr. Kebede Uchile Water co	mmittee cash	er 0916832893	+
wien	no (Town sketchetc.):	***			
ļ					
<u> </u>					
ļ					***************************************

S-59 Dalbo Atowa



S-60 Lanite

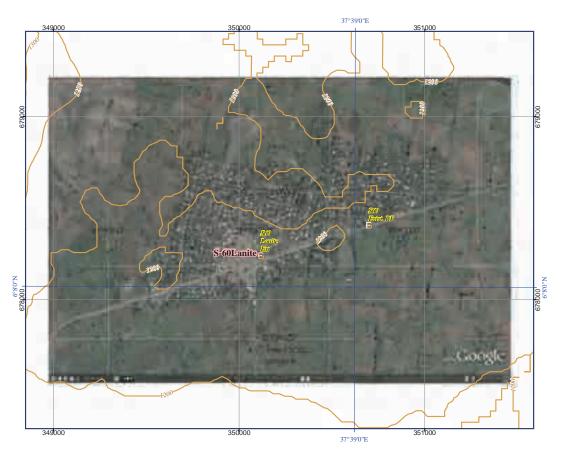
	SNNPR				49 / 5	
	Name of small town	:	Lanite		S- 60	)
-	Name of Woreda		Arba Minch Z	uria	SW- 39	9
	Name of Zone		Gamo Gofa	3	SZ- 07	7
	Nume of Zone	Profile items	- Cumo Com	1	Profile	
_	Population	1 Tottle items			1 I OI II C	
	Town	male / female / total	by SNNPR	3,566	3,655	7,221
	Woreda	male / female / total	by Census 2007	82,751	82,929	165,680
	percentage of Town in Wor		by Census 2007	02,751	02,727	4.4%
	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	350026	678098	1,198
_	Town Status	C 1111 (1 Idilidan)	Embering / Troiting / Tite	Kebele Adimin		1,170
	Water Source					
	04-01 Water source		Type, No.	Well*1no.		
	04-02 Well spec.		Depth., Casing Dia., S.W.L	GL-100m / 6" /	SWL GL-??	m
	04-03 Methor of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.		Type, Yield	Motorized pum	·	
- 1	04-05 Power source		Type, Kva	Commercial Ele		
	04-06 Durartion of water draw		daily hours, time	07:00-12:00, 15	:00-19:00 (91	rrs./day)
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen					
;	Existing Water Supply Facilities			+		
	05-01 Established year		(Gregorian calendar)	1998 / 2008		
	05-01 Established year 05-02 Financial of implementation	1	Donor's name	SNNPR		
	05-03 Name of implementation			Lanite water pro	oject	
	05-04 Intake Type			Well	3	
	05-05 Intake No.			1 no.		
	05-06 Conveyance Type (Water se	ource ~ Reservoir)	Pipe material, length	GIP, 3", 1,500n	1	
	05-07 Power to convey		Pressure, Gravity	Pressure		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Туре	GR		
	05-11 Water reserver No.		no.	GR*1no.		
	05-12 Water reserver Capacity		m3	GR50m3*1no.		
	05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit		Pressure, Gravity	nil.		
- 1	05-15 Distribution Type		Pipe material, length	4,640m		
- 1	05-16 Power to distribute		Pressure, Gravity	Gravity		
	05-17 Structure Type of water poi		RC, Masonry, Pipeetc			
	05-18 Number of water point (Pub		no.	7 (+4 public sh		
	05-19 Number of faucet at a water	<u> </u>	no.	4FC*3PF, 2FC	*4PF	
	05-20 Average of daily water cons		F) m3/day	1.3m3/day		
	05-21 Number of House Connecti 05-22 Average of daily water consun		n2/dorr	105 0.143m3/day		
	05-22 Average of daily water consun 05-23 Number of Business Conec	-	C) m3/day	0.143m3/day		
	05-23 Number of Business Conec		ool, Gov. office, Hospitaletc	1	h*5 Haalth C	'tr*?
	05-25 Average of daily water consump			0.51m3/day	ıı ə, i icalili C	u 4
	05-26 Other technical specimen	out of Business Connection (B	~, ms/uay	0.311113/Uay		
	55 26 Other teenment specimen					
,	Operation and Maintenace					
	06-01 Organization's name			Water comitee		
	06-02 Type of organization	]	Regional, Zone, Enterpriceetc	Community Ba	sed Organizat	ion
	06-03 Number of thechnical staff			2		
	06-04 Principal works of technica			Pump operation	, Plumbing	
	06-05 Number of the financial sta			8		
	06-06 Principal works of financial			Water mater rea	,	
	06-07 Categories of water tariff	W	Point, House Connectionetc	. W. Point, House	e, Buisiness Co	onnection
	06-08 Water tariff rate					
	Water point (Public faucet)		Birr/L, 20L	0.1 birr/20L		
	House connection		Birr/m3	0~10m3=3.0biri		
	Business connection		Birr/m3	0~10m3=3.0bir		4.0birr/m3
	06-09 Average monthly income by	y water tariff	Birr/month	2,500birr/month	1	
	06-10 Procurement of spare parts	at Tov	wn, Zonal Cap. Reg. Capetc	Woton mater B	noc Prfitti	
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		pesænttings	
	06-12 Method in case of serious re	<u> </u>	al office, Private companyetc	Pump burned		
	06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		rganization, Gov., Donorsetc			

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	06-15 Other technical specimen			
07	Problem of actual town vector curply			
07	Problem of actual town water supply 07-01 Technical			
	Water source Quantity, Qualityetc.	Not grasp		
	Water supply facility Decrepit, leakage, design failureetc		gn of pipe network	
	07-02 Finalcial		Y	
	Management	Shortage skk	riled staff (Tech.&Admin.)	
	Rate of water tarrif collection	Rate of wate	r fee collection is low	
	Personnel expenses	Low		
	Shortage of budget to execute operation & maintenace	Unpaid wate	r fee of Health center	
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc 07-04 Other technical specimen	m11.		
	07-04 Other technical specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)		
	Flat area (An alluvial area beside of Abaya Lake)			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
<u> </u>	G .W. G			
10	Current Water Coverage (%) (by water consumption at faucets)	700 -	24%	
	(1.3m3*11PF+0.143m3*105HC+0.51m3*10BC)=34.4m3 34.4m3/20Lpcd.= 1720persons 1	/20persons//		
	Current Water Coverage (%) (by data of water source product)) ((??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/7221population=??%	,	??%	
11	$\frac{((?/L)^*5000sec.^*?/nrs)=???L/day}{\text{Water Potential}} (A/B/C/D/E)$	0	С	
11	water Potential (A/B/C/D/E)		C	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A/A	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	11	11/11	
	Access road is Asphalt road 23km from Arba Minch * Refer to Chapter 5 "Table 5-7: Catego	ries of access	ibility"	
13	Manpower Capability of Water Supply Management by Water Office (point)		16	
			•	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
	N. W. G. J. D.			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the	
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
10	No Donors, NGO	***************************************	t to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	
17	Main Ethnic Group	Gamo		
18	Health conditions			
	-1 Medical facilities in Town		er, Private clinic	
	-2 Nearest other facilities from Town km	16		
	-3 Main patients of water born diseases persons / year	Mararia	700	
19	Main economic activities	Typhoid Farming	500	
19	ATALITY CONTOURS	1 ammig		
20	Particular comments :			
21	Remarks:			
) f	(Town shotsh at a)	I		
Men	no (Town sketchetc.):			
<b></b>	1	ı	1	·
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データ 7.3 南部諸民族州の小都市プロファイル

S-60 Lanite



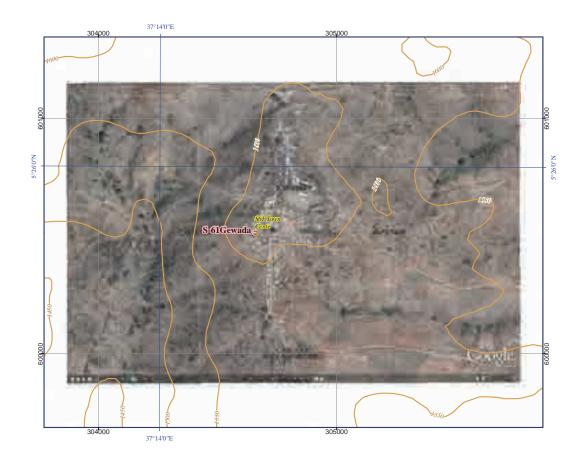
S-61 Gewada

	SNNPR					/ 52	
	Name of small town	:	Gewada		S-	61	]
	Name of Woreda	:	Konso Spec	ial	SW-	30	
	Name of Zone	•	Gamo Gofa	1	SZ-	07	
		Profile items			Profile		!
01	Population						
	Town	male / female / total	by SNNPR	?	?	8,400	
	Woreda	male / female / total	by Census 2007	113,353	121,634	234,987	
02	percentage of Town in Wor Town Coordination	eda UTM (Adindan)	Easting / Nouthin / Alt	204567	600363	3.6%	
	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	304567 Town Adminis		1,612	
	Water Source			TOWN 7 Idining	il ulion		
	04-01 Water source		Type, No.	Surface water,	small river		
	04-02 Well spec.	***************************************	Denth., Casing Dia., S.W.L				
	04-03 Methor of water draw		Pump, Gravity	nil.			ļ
	04-04 Pump Spec. 04-05 Power source		Type, Yield Type, Kva	nil. nil. (No elec. F	or Town)		ļ
	04-05 Power source 04-06 Durartion of water draw		daily hours, time	nil.	or rown)		
	04-07 Water quality		Iron, Fluorideetc.	Not grasped		***************************************	
	04-08 Other technical specimen			- 1			
	Existing Water Supply Facilities		(C	mil			ļ
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar) Donor's name	nil. nil.			ļ
	05-03 Name of implementation	L	Dollor's flattic	nil.			
	05-04 Intake Type			nil.			
	05-05 Intake No.			nil.			
	05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	nil.			
	05-07 Power to convey		Pressure, Gravity	nil.			ļ
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nil. nil.			ļ
	05-10 Water reserver type		Туре	nil.			
	05-11 Water reserver No.		no.	nil.			
	05-12 Water reserver Capacity		m3	nil.			
	05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil.			
	05-14 Power to transmit		Pressure, Gravity	nil.			
	05-15 Distribution Type 05-16 Power to distribute	***************************************	Pipe material, length Pressure, Gravity	nil. nil.			
	05-17 Structure Type of water poi	nt (Public Faucet, PF)	RC, Masonry, Pipeetc.	nil.			-
	05-18 Number of water point (Pub		no.	nil.			·
	05-19 Number of faucet at a water		no.	nil.			
	05-20 Average of daily water cons		m3/day	nil.			
	05-21 Number of House Connection 05-22 Average of daily water consum		2/1	nil.			<b></b>
	05-22 Average of daily water consum 05-23 Number of Business Conec		m3/day	nil.			ļ
	05-24 Type of Business Connection		ol, Gov. office, Hospitaletc.				
	05-25 Average of daily water consump			nil.			
	05-26 Other technical specimen						
06	0 2 11/12						<u> </u>
	Operation and Maintenace 06-01 Organization's name			nil.			ļ
	06-02 Type of organization	Ra	gional, Zone, Enterpriceetc				ļ
	06-03 Number of thechnical staff	NC.	S. Saut, Zone, Emerpriceetc	nil.			
	06-04 Principal works of technical	staff		nil.			
	06-05 Number of the financial state			nil.			
	06-06 Principal works of financial		· · · · · · · · · · · · · · · · · · ·	nil.			ļ
	06-07 Categories of water tariff 06-08 Water tariff rate	W.F	Point, House Connectionetc.	nil.			ļ
	Water point (Public faucet)		Birr/L, 20L	nil.			-
	House connection		Birr/m3	nil.			<b>†</b>
	Business connection		Birr/m3	nil.			İ
	06-09 Average monthly income by		Birr/month	nil.			
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.				ļ
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc				ļ
	06-12 Method in case of serious re 06-13 Principal serious repair with		office, Private companyetc	nil. nil.			-
				mul.			

S-61 Gewada

	06-15 Other technical specimen			
07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	11		
	Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial	.n11.		
	Management	nil.		
	Rate of water tarrif collection	nil.		
	Personnel expenses	nil.		
	Shortage of budget to execute operation & maintenace	nil.		
	07-03 Other incidential, Special specimen  Increase in population to consume water coming from other towns, villagesetc	Not grasn		
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc			
	07-04 Other technical specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
00	Town: Slope of ridge, rolling, up and down			
	5, -p			
09	Necessary Institution (Facility, Material)  Water source (well) with pump + Convayance Pipe line + Reservoir Tank + Distribution piple Refer to Chapter 4 "Table 4.7"	lines + Water	point (Public Fa	ucets)
	-	***************************************		
10	Current Water Coverage (%) (by water consumption at faucets)		0%	!
	Current Water Coverage (%) (by data of water source product))	ı	0%	
	Current water Coverage (%) (by data of water source product))		070	***************************************
11	Water Potential (A/B/C/D/E)		С	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	C/D	
	A=Road Width $> 6m / B = 3 - 6m / C = 1 - 3m / D = <1m$ Access road is Asphalt & Sub Grade 36km Konso. (=30km+6km) * Refer to Chapter 5 "Table	5-7: Categori	es of accessibili	tv"
13	Manpower Capability of Water Supply Management by Water Office point)	7. Cutegori	0	.,
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7	L		
	Refer to chapter 3 te 7			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec construction works is required some ingenuities arround water sources.	hnology. The s	small town is on	the hills,
16	Other Donors, NGO's			
	No donnors, NGO			
17	Main Ethnic Group	Ale, Gewada		
17	Main Edinic Group	Ale, Gewaua		
18	Health conditions			
	-1 Medical facilities in Town	Health Center	, Private clinic,	Drug store
	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Mararia	2,500	
	-3 Main patients of water both diseases persons / year	Typhoid	2,000	
		Dysentery	1,000	
		others	1,500	
19	Main economic activities	Farming		
20	Particular comments :			
	This small town is a priority of improvement of accessibility for operation & maintenance. Col difficult in term of their income amount.	lection of water	er fee from reside	ents is quite-
21	Remarks:			
Man	on (Town sketch atc.)			
ivien	no (Town sketchetc.):			
				***************************************
				Name and Associated States
<b></b>				***************************************

S-61 Gewada



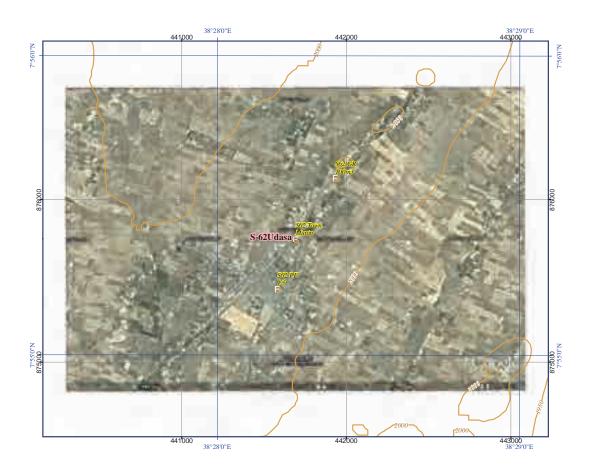
S-62 Usada

Town Status  Water Source  04-01 Water source  04-02 Well spec.  04-03 Method of water draw  04-04 Pump Spec.  04-05 Power source for motorized pump  04-06 Durartion of water draw (Operation hours)  04-07 Water quality  04-08 Other technical specimen  Existing Water Supply Facilities  05-01 Established year (Gregoria  05-02 Financial of implementation (Project name)  05-03 Name of implementation (Project name)  05-04 Intake Type  05-05 Intake No.  05-05 Conveyance Type (Water source ~ Reservoir) Pipe mate  05-07 Power to convey Pressure,  05-08 Water treatment Disinfect  05-09 Water reserver type  05-11 Water reserver No.  05-12 Water reserver Capacity  05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe mate  05-14 Power to transmit Pressure,  05-15 Power to distribute Pressure,  05-16 Power to distribute Pressure,  05-17 Structure Type of water point (Public Faucet, PF)  05-19 Number of Maccet at a water point (Public Faucet, PF)  05-20 Average of daily water consumption at a water point (PF)  05-21 Number of Business Connection (BC)  05-22 Average of daily water consumption of Business Connection (BC)  05-25 Average of daily water consumption of Business Connection (BC)  05-26 Other technical specimen  6-02 Type of organization Regional, Zor  06-03 Number of the chnical staff  06-04 Principal works of technical staff  06-06 Principal works of financial staff  06-06 Principal works of financial staff	orthig / Alt. 441600 Municipality Well*Ino. Dia., S.W.L, Yield GL-234m, 6 Pump Motorized p Commercial time 08:00~14:00	89,740 177,323 2.5% 875629 2,040
Population	2,306   2007   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,583   87,5	SZ- 08 Profile  2,164 4,470 89,740 177,323 2.5% 875629 2,040
Population	2,306 2007 87,583  orthig / Alt. 441600  Municipality  Well*1no.  bia., S.W.L, Yield GL-234m, 6  vity Pump  Motorized p  Commercial , time 08:00~14:00	Profile  2,164 4,470 89,740 177,323 2.5% 875629 2,040
Population	2007 87,583  orthig / Alt. 441600  Municipality  Well*1no.  oia., S.W.L, Yield GL-234m, 6  vity Pump  Motorized p  Commercial , time 08:00~14:00	2,164 4,470 89,740 177,323 2.5% 875629 2,040
Town woreda male / female / total by SNNP Woreda percentage of Town in Woreda Town Coordination UTM (Adindan) Easting / Town Status  Water Source 04-01 Water source Type, No 04-02 Well spec. Depth., Casing 04-03 Method of water draw Pump, Gr 04-04 Pump Spec. Depth., Casing 04-04 Pump Spec. Type, Yie 04-05 Power source for motorized pump Type, Ky 04-06 Durartion of water draw (Operation hours) daily hou 04-07 Water quality Iron, Fluc 04-08 Other technical specimen  Existing Water Supply Facilities 05-01 Established year (Gregoria 05-02 Financial of implementation Donor's m 05-03 Name of implementation (Project name) 05-04 Intake Type 05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe mate 05-09 Water treatment Disinfect 05-09 Water treatment Disinfect 05-09 Water treatment Disinfect 05-11 Water reserver No. no. 05-12 Water reserver No. no. 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-14 Power to dransmit Pressure, 05-15 Distribution Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-15 Distribution Type Pipe mate 05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) 05-19 Number of Business Conection (HC) 05-22 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of Business Connection (BC) 05-24 Type of organization sname 06-01 Organization's name 06-02 Type of organization sname 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of thechnical staff 06-06 Principal works of financial staff 06-07 Categories of water tariff Wepont, House Connection (Public Faucet, PF) Birr/L, 20 House connection Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplementation Surplem	2007 87,583  orthig / Alt. 441600  Municipality  Well*1no.  oia., S.W.L, Yield GL-234m, 6  vity Pump  Motorized p  Commercial , time 08:00~14:00	89,740 177,323 2.5% 875629 2,040
Woreda percentage of Town in Woreda Town Coordination UTM (Adindan) Easting / Town Status Water Source 04-01 Water source Depth, Casing 04-03 Method of water draw Pump, Gr 04-04 Pump Spec. Depth, Casing 04-05 Power source for motorized pump Type, No 04-06 Durartion of water draw (Operation hours) daily hou 04-07 Water quality Iron, Fluc 04-08 Other technical specimen  Existing Water Supply Facilities 05-01 Established year (Gregoria 05-02 Financial of implementation (Project name) 05-03 Name of implementation (Project name) 05-04 Intake Type 05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe mate 05-09 Water treatment Disinfect 05-09 Water treatment capacity m3/day 05-10 Water reserver type 05-11 Water reserver type 05-12 Water reserver type 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-14 Power to transmit Pressure, 05-15 Distribution Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of faucet at a water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-10 Number of Business Connection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption at a water point (PC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zo 06-03 Number of the financial staff 06-04 Principal works of financial staff 06-05 Number of the financial staff 06-06 Number of the financial staff 06-07 Categories of water tariff 06-08 Water tariff We Point, Hous 06-08 Water tariff ate Water point (Public faucet) Birr/m3 Water point (Public faucet) Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3 Birr/m3	2007 87,583  orthig / Alt. 441600  Municipality  Well*1no.  oia., S.W.L, Yield GL-234m, 6  vity Pump  Motorized p  Commercial , time 08:00~14:00	89,740 177,323 2.5% 875629 2,040
Town Coordination UTM (Adindan) Easting / Town Status  Water Source  04-01 Water source Type, No 04-02 Well spec. Depth., Casing 04-03 Method of water draw Pump, Gr 04-04-04 Pump Spec. Type, Xv 04-05 Power source for motorized pump Type, Kv 04-05 Power source for motorized pump Type, Kv 04-06 Durartion of water draw (Operation hours) daily hou 04-07 Water quality Iron, Flut 04-08 Other technical specimen  Existing Water Supply Facilities 05-01 Established year (Gregoria 05-02 Financial of implementation (Project name) 05-03 Name of implementation (Project name) 05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe mate 05-07 Power to convey Pressure, 05-08 Water treatment Dissinfect 05-09 Water treatment capacity m3/day 05-10 Water reserver type Type 05-11 Water reserver Lype Type 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-15 Distribution Type 05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-21 Number of Business Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Connection (BC) 05-24 Type of roganization Regional, Zo 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of thechnical staff 06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, Hous 06-08 Water tariff ate Water point (Public faucet) Water point (Public faucet) Water point (Public faucet) Birr/n3 Birr/n3	orthig / Alt. 441600 Municipality Well*Ino. Dia., S.W.L, Yield GL-234m, 6 Pump Motorized p Commercial time 08:00~14:00	2.5% 875629 2,040
Town Coordination UTM (Adindan) Easting / Town Status  Water Source  04-01 Water source Type, No 04-02 Well spec. Depth., Casing 04-03 Method of water draw Pump, Gr 04-04 Pump Spec. Type, Yie 04-05 Power source for motorized pump Type, Yie 04-06 Durartion of water draw (Operation hours) daily hou 04-07 Water quality Iron, Fluc 04-08 Other technical specimen  Existing Water Supply Facilities 05-01 Established year (Gregoria 05-02 Financial of implementation (Project name) 05-03 Name of implementation (Project name) 05-04 Intake Type 05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe mate 05-07 Power to convey Pressure, 05-08 Water treatment Disinfect 05-09 Water treatment capacity m3/day 05-11 Water reserver type 05-11 Water reserver type 05-12 Water reserver Capacity m3 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe mate 05-14 Power to transmit 05-15 Distribution Type Pipe mate 05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of faucet at a water point (Public Faucet, PF) 05-19 Number of Business Connection (BC) 05-22 Average of daily water consumption at a water point (PF) 05-21 Number of Business Connection (BC) 05-22 Average of daily water consumption of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen 05-06-07 Type of organization Regional, Zo 06-03 Number of thechnical staff 06-04 Principal works of financial staff 06-05 Principal works of financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, House 06-08 Water tariff ate Water point (Public faucet) Birr/n3	Municipality  Well*1no.  bia., S.W.L, Yield GL-234m, 6  vity Pump  Motorized p  Commercial  time 08:00~14:00	875629 2,040
Water Source  04-01 Water source  04-02 Well spec.  04-03 Method of water draw  04-04 Pump Spec.  04-05 Power source for motorized pump  04-06 Durartion of water draw (Operation hours)  04-07 Water quality  04-08 Other technical specimen  Existing Water Supply Facilities  05-01 Established year  05-02 Financial of implementation  05-03 Name of implementation (Project name)  05-04 Intake Type  05-05 Intake No.  05-06 Conveyance Type (Water source ~ Reservoir)  05-07 Power to convey  05-08 Water treatment  05-09 Water treatment capacity  05-10 Water reserver type  05-11 Water reserver No.  05-12 Water reserver Capacity  05-13 Transmission Type (Booster pump Stn. ~ Reservoir)  05-14 Power to transmit  05-15 Distribution Type  05-16 Power to distribute  05-17 Structure Type of water point (Public Faucet, PF)  05-19 Number of House Connection (HC)  05-23 Number of Business Connection (BC)  05-24 Type of Business Connection (BC)  05-25 Average of daily water consumption of Business Connection (BC)  05-26 Number of the financial staff  06-03 Number of the financial staff  06-04 Principal works of technical staff  06-07 Categories of water tariff  06-08 Water tariff rate  Water point (Public faucet)  Water point (Public faucet)  Regional, Zo  06-03 Number of the financial staff  06-04 Principal works of technical staff  06-05 Principal works of financial staff  06-07 Categories of water tariff  06-08 Water tariff rate  Water point (Public faucet)  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L, 20  Birr/L	Municipality Well*1no.  bia., S.W.L, Yield GL-234m, 6  vity Pump I Motorized p Commercial time 08:00~14:00	
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05-14 Power to transmit Pressure, 05-15 Distribution Type Pipe mate 05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) RC, M 05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zon 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 Birr/L, 20 Birr/L, 20 Birr/m3		
05-15 Distribution Type Pipe mate 05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) RC, M 05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zon 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 Birr/L, 20 Birr/m3		
05-16 Power to distribute Pressure, 05-17 Structure Type of water point (Public Faucet, PF) RC, M 05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zo 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 Birr/L, 20 Birr/m3		
05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 Birr/L, 20 Birr/M3	,	nemo
05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 Birr/L, 20 Birr/M3	sonry, Pipeetc. Manosonry	
05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff ate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	no. 7	
05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Connection (BC) 05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zoi 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Birr/M3	no. 6FC*2PF, 4	FC*5PF
05-22 Average of daily water consumption of House Connection(HC)     05-23 Number of Business Connection (BC)     05-24 Type of Business Connection (BC)   Factory, School, Gov. off     05-25 Average of daily water consumption of Business Connection (BC)     05-26 Other technical specimen	m3/day 2.4m3/day	
05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, School, Gov. off 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zoi 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection  Birr/L, 20 Birr/L, 20 Birr/M3	nil.	
05-24 Type of Business Connection (BC) Factory, School, Gov. off 05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zor 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	n3/day nil.	
05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization Regional, Zor 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	nil.	
05-26 Other technical specimen  Operation and Maintenace 06-01 Organization's name 06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection  Birr/M3		
Operation and Maintenace 06-01 Organization's name 06-02 Type of organization 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff ate Water point (Public faucet) House connection  We regional, Zon	n3/day nil.	
06-01 Organization's name 06-02 Type of organization Regional, Zon 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff w.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3		
06-01 Organization's name 06-02 Type of organization Regional, Zon 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Birr/L, 20 Birr/L, 20 Birr/M3	T.	
06-02 Type of organization Regional, Zoo 06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff w.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3		sittaa
06-03 Number of thechnical staff 06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Birr/L, 20 Birr/L, 20 Birr/M3		
06-04 Principal works of technical staff 06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	Water comm	vased organization
06-05 Number of the financial staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff rate  Water point (Public faucet)  House connection  We Point, House		tion
06-06 Principal works of financial staff 06-07 Categories of water tariff W.Point, House 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	Water comm, Enterpriceetc. Community	LIVII
06-07 Categories of water tariff W.Point, Hous 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	Water comm	t Water point
06-08 Water tariff rate Water point (Public faucet) Birr/L, 20 House connection Birr/m3	Water comm, Enterpriceetc. Community 1 Pump operat 2	
Water point (Public faucet) Birr/L, 20 House connection Birr/m3	Water comm, Enterpriceetc Community  1  Pump operat 2  Water sale a	
House connection Birr/m3	Water comm, Enterpriceetc. Community 1 Pump operat 2	
	Water comm, Enterpriceetc Community  1  Pump operat 2  Water sale a  Connectionetc. W. Point	,
	Water comm, Enterpriceetc Community  1  Pump operat 2  Water sale a  Connectionetc. W. Point	
06-09 Average monthly income by water tariff Birr/mon	Water comm, Enterpriceetc Community  1  Pump operat 2  Water sale a Connectionetc. W. Point  0.25birr/25L	
	Water community 1 Pump operar 2 Water sale a Connectionetc. W. Point 0.25birr/25L nil.	
	Water comm, Enterpriceetc Community 1 Pump operat 2 Water sale a Connectionetc. W. Point 0.25birr/25L nil. nil.	
	Water comm, Enterpriceetc. Community 1 Pump operat 2 Water sale a Connectionetc. W. Point 0.25birr/25L nil. nil. 7,000birr/mo	onth
06-13 Principal serious repair with 5-10 years	Water comm, Enterpriceetc Community  1 Pump operat 2 Water sale a Connectionetc. W. Point  0.25birr/25L nil. nil. 7,000birr/mc Reg. Capetc. Butajira filter, Pipesetc Pipe pittings	onth
06-14 Fund for above 6-09, 6-10 by Organization, 0	Water comm, Enterpriceetc. Community  1 Pump operat 2 Water sale a Connectionetc. W. Point  0.25birr/25L nil. nil. 7,000birr/m Reg. Capetc. Butajira	onth

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	Problem of actual town water supply			
	07-01 Technical			
	Water source	Quantity, Qualityetc.	Shrtage water	
		Decrepit, leakage, design failureeto	Design failui	re (elevation)
	07-02 Finalcial		NT .	
	Management Rate of water tarrif collection		Not grasp Not grasp	
			Not grasp	
	Personnel expenses  Shortage of budget to execute operation & mainte			ideat for OP1
		nace	Shourtage bu	idget for O&l
	07-03 Other incidential, Special specimen		Ci f	:11
	Increase in population to consume water co Change in industry	ming from other towns, villagesetc		
	Change in industry  Human conflict	increase factory, Tradingetc		eat trading
		Ethnic, Administrativeetc	21111.	
	07-04 Other specimen			
18	Geographical condition (Slope on mountaion,	bottom of valley, Top of ridgeetc.	)	
,,,	Flat area, slightly lifted towards south.	bottom of valley, 1 op of flageetc.	,	
	That area, siightly fired towards south.			
)9	Necessary Institution (Facility, Material)			
,,	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at	faucets)		20%
	(2.5m3*7PF+0m3*0HC+0m3*0BC)=17.5m3/day 17.5		ons / 4,470 por	
	Current Water Coverage (%) (by data of water source p			110%
	((3.4L)*3600sec.*8hrs)=97920L/day 97920/20Lcd=48		tion=110%	
11	Water Potential $(A/B/C/D/E)$	,		В
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Cou	rse/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B / B
		n /B= >3~6m / C= 1~3m / D= <1m		•
	Access road is Sub Grade 37km from Butajira. * Refer	to Chapter 5 "Table 5-7: Categories of	of accessibility	y"
13	Manpower Capability of Water Supply Management by	Water Office (point)	_	6
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			1
15	New Water Supply Plan			
	New water Supply Flair			
		highin not magnined many advanced to	hnology. The	amall town is on the
	The facility can be designed in an Ethiopian standard, w		chnology. The	small town is on the
			chnology. The	small town is on the
	The facility can be designed in an Ethiopian standard, w		chnology. The	small town is on the
	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.		chnology. The	small town is on the
	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult. Other Donors, NGO's		chnology. The	small town is on the
16	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult. Other Donors, NGO's		Chnology. The	small town is on the
16 17	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult. Other Donors, NGO's nil.  Main Ethnic Group			small town is on the
16 17	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult. Other Donors, NGO's nil.  Main Ethnic Group  Health conditions		Silte	
16 17	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town		Silte Private clinic	c, Drug store, Health Post
16 17	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Silte Private clinic 35	c, Drug store, Health Post
16	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town		Silte Private clinic	c, Drug store, Health Post
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Silte Private clinic 35 Mararia	c, Drug store, Health Post
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Silte Private clinic 35	c, Drug store, Health Post
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km	Silte Private clinic 35 Mararia	c, Drug store, Health Post
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	km	Silte Private clinic 35 Mararia	c, Drug store, Health Post
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km	Silte Private clinic 35 Mararia	c, Drug store, Health Post
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km	Silte Private clinic 35 Mararia	c, Drug store, Health Post
117 118 119 220	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km	Silte Private clinic 35 Mararia	c, Drug store, Health Post
117 118 119 220	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities	km persons / year	Silte Private clinic 35 Mararia	c, Drug store, Health Post 400 ade
117 118 119 220	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year Mr. Shemsu Aman	Private clinic 35 Mararia Farming, Tra	c, Drug store, Health Post 400 ade
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
16 17 18	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year Mr. Shemsu Aman	Private clinic 35 Mararia Farming, Tra	c, Drug store, Health Post 400 ade
16 17 18 19 20	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
16 17 18 19 20	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
16 17 18 19 20	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
116 117 118 119 120	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
16 17 18 19 20	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
116 117 118 119 120	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
116 117 118 119 120	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
16 17 18 19 20	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
117 118 119 220	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
116 117 118 119 120	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721
16 17 18 19 20	The facility can be designed in an Ethiopian standard, w generally flat terrains, construction work is not difficult.  Other Donors, NGO's nil.  Main Ethnic Group  Health conditions  -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases  Main economic activities  Particular comments:  Remarks:  Remarks:	km persons / year  Mr. Shemsu Aman Mr. Fichago Nuri Chairman Mr. Seman Yasin Water sale	Private clinic 35 Mararia Farming, Tra	2, Drug store, Health Post 400 ade 0913-796-601 0911-341-721

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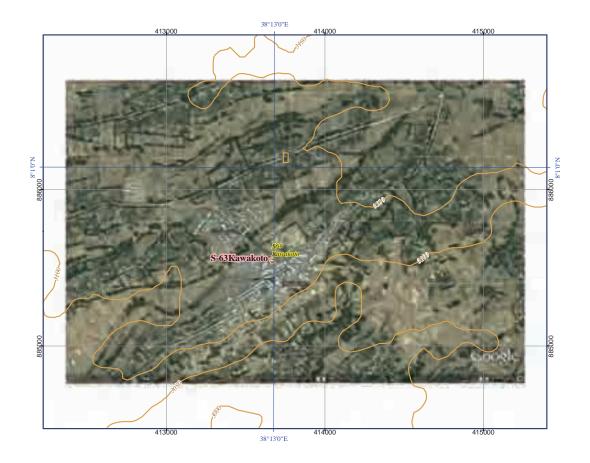
S-63 Kawakoto

	SNNPR				52 / 52	2	
	Name of small town	:	Kawakoto		S- 63		
	Name of Woreda		Alicho Wurii	ro	SW- 40		
	Name of Zone	:	Silte		SZ- 08		
		Profile items			Profile		!
01	Population						•
	Town	male / female / total	by SNNPR	447	336	783	
	Woreda	male / female / total	by Census 2007	42,024	50,445	92,469	
02	percentage of Town in Wo	oreda UTM (Adindan)	E-stine / Neutleie / Alt	412574	885422	0.8% 1,718	
	Town Coordination Town Status	U I W (Adindan)	Easting / Northig / Alt.	413574 Municipality	883422	1,/18	
	Water Source			Wanterparity			
	04-01 Water source		Type, No.	Spring*1no.			
	04-02 Well spec.	Dep	oth., Casing Dia., S.W.L, Yield				
	04-03 Method of water draw		Pump, Gravity	Gravity			
	04-04 Pump Spec. 04-05 Power source for motorize	od numn	Type, Yield Type, Kva	nil. nil.			
	04-05 Power source for motorize		daily hours, time	09:00-11:00 (2	hrs./day)		!
	04-07 Water quality	Speration nours)	Iron, Fluorideetc.	Good	ino, day)		•
	04-08 Other technical specimen						
05	Existing Water Supply Facilities		(C	2000			
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar) Donor's name	2008 Action Aid (N	GO)		
	05-02 Financial of implementation (		DOHOL & HAIRE	Anchule water			
	05-04 Intake Type	rioject name)		Spring	project		
	05-05 Intake No.			lno.			
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 1*1/2", ?	??m		
	05-07 Power to convey		Pressure, Gravity	Gravity			
	05-08 Water treatment		Disinfection, Ironetc.	nil.			
	05-09 Water treatment capacity		m3/day	nil. GR			
	05-10 Water reserver type 05-11 Water reserver No.		Type no.	lno.			
	05-12 Water reserver Capacity		m3	5m3			
	05-13 Transmission Type (Boost	ter pump Stn. ~ Reservoir)	Pipe material, length	nil.			
	05-14 Power to transmit		Pressure, Gravity	nil.			
	05-15 Distribution Type		Pipe material, length		*1/2"*12m Tota	l 14m	
	05-16 Power to distribute	'/P.II'. E	Pressure, Gravity	Gravity			
	05-17 Structure Type of water po 05-18 Number of water point (Po		RC, Masonry, Pipeetc.	Mansonry			
	05-19 Number of faucet at a wat		no.	6			
	05-20 Average of daily water co			4.2m3/day			
	05-21 Number of House Connec	tion (HC)		nil.			
	05-22 Average of daily water consu	imption of House Connection(HC)	m3/day	nil.			
	05-23 Number of Business Cone		***************************************	nil.			
	05-24 Type of Business Connect		ol, Gov. office, Hospitaletc.				
	05-25 Average of daily water consur 05-26 Other technical specimen	nption of Business Connection (BC)	) m3/day	nil.			
	03-26 Other technical specimen						
06	Operation and Maintenace						
	06-01 Organization's name				ele water supply		
	06-02 Type of organization		egional, Zone, Enterpriceetc		sed organization	ı	
	06-03 Number of thechnical staf			nil.			
	06-04 Principal works of technic			nil.			
	06-05 Number of the financial st 06-06 Principal works of financi			1 water sale			
	06-06 Principal works of financi		Point, House Connectionetc.				
	06-08 Water tariff rate	VV	110aoc Connectionctc.	Point			
	Water point (Public faucet	t)	Birr/L, 20L	0.1birr/20L			
	House connection		Birr/m3	nil.			
	Business connection		Birr/m3	nil.			
	06-09 Average monthly income		Birr/month	700birr/month			
	06-10 Procurement of spare parts	s at Town	n, Zonal Cap. Reg. Capetc.	Woreda	tor motor		
	06-11 Principal spare parts 06-12 Method in case of serious		il filter, Fuel filter, Pipesetc office, Private companyetc		ici meter		
	06-12 Method in case of serious 06-13 Principal serious repair wi		omice, riivate companyetc	nil.			
	06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.				
	06-15 Other technical specimen			Water commit	tee		
	*						

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07	Problem of actual town water supply		
	07-01 Technical		
	Water source Quantity, Qualityetc.	Shortage water	
	Water supply facility Decrepit, leakage, design failureetc	Design failure	
	07-02 Finalcial	Not around	•
	Management  Rate of water tarrif collection	Not grasped ok	!
	Personnel expenses	free	!
	Shortage of budget to execute operation & maintenace	Shortage water	!
	07-03 Other incidential, Special specimen	Shortage water	
	Increase in population to consume water coming from other towns, villagesetc	Gov. employees. Students	
	Change in industry increase factory, Tradingetc.		
	Human conflict Ethnic, Administrativeetc		
	07-04 Other specimen		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	)	
	Town is on the flat area.		
09	Necessary Institution (Facility, Material)		
09	Additional reservoir tank for 20m3*1no. (example; 20Lcd*800persons=16m3, 30Lcd*800=2	24m3)	
	Additional Water points & distribution pipe lines. (1-2 Water points)		
L			
10	Current Water Coverage (%) (by water consumption at faucets)	27%	
	(4.2m3*1PF+0m3*0HC+0m3*0BC)=4.20m3/day 4.20m3/20Lpcd.= 210persons 210perso		
	Current Water Coverage (%) (by data of water source product))	99%	
<u> </u>	((0.18L)*3600sec.*24hrs)=15552L/day 15552/20Lcd=777persos 777persons/783population		
11	Water Potential (A / B / C / D / E)	A	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached B / B	
12	A=Road Width $> 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$	D/D	
	Access is Asphalt & Sub grade road 48km from Butajira. (=23+25km from Butajira)		
13	Manpower Capability of Water Supply Management by Water Office point)	7	
14	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
15	New Water Supply Plan		
13			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	chnology. The small town is on the	
	generally flat terrains, construction work is not difficult.		
16	Other Donors, NGO's		
	Not grasped		
17	Main Ethnia Graun	Cilto	
17	Main Ethnic Group	Silte	
18	Health conditions		
١	-1 Medical facilities in Town	Health Center, Private clinic	
	-2 Nearest other facilities from Town km	64	
	-3 Main patients of water born diseases persons / year	Dysentery 1,400	
		Typhoid 802	
19	Main economic activities	Farming	
20	Particular comments :		
20	Town population is less than 2,000 persons in accordance with list of the candidate small town	18	
	2,000 persons in accordance with fist of the candidate shiali town	.1.3	
21	Remarks:		
		& mines process owner Mob. 09163927	
	·	mittee chair person Mob. 0910142273	
Men	no (Town sketchetc.):		L
	•		
	-	•	
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<u></u>	•		
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#### データ 7.4 82小都市の給水施設規模と概算事業費 (1/3)

												データ	1.4	821	八旬八	リリが行っ	小儿	过汉况	(代)	概算事	未貝	(1/3)	'				I			5 61 111	5 5
Part				SNNPRS (52 tov	vns )	Town population	Tub	pe well	Pι	ımp	Ge	enerator	Genera	ator House	Convayand	ce pipe line	Water Re	eservoir tank	Transmis	ssion pipe line	Distribution	ion pipe line	Public fa	aucets			Water coverage (2010)	Out of water coverage	Population	Beneficiary population* (2015)	Beneficiary ratio (2015)
Part						Q'ty	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Total	Q'ty	Cost	cost		20lpcd		2015		
P	No.	Z	Zone	Woreda	Small Town	2010 2015	,	Yen75,84/\$	Y	en75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	١	Yen75,84/\$	Ye	n75,84/\$	1	2	3	4	(5)	6	7
Part						Persons	nos.	\$	nos.	\$	nos.	\$	nos.	\$	m	\$	nos.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③		=(4) × (5)	=6÷5
Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note	1 S	Z-01 G	urage	SW-01 Sodo	S-01 Buei (BH)	6,961 8,188	8 1	\$18,987	1	\$13,007	1	\$34,325	1	\$14,504	1,140	\$194,920	1	\$12,922	3,800	\$245,266	11,400	\$167,227	23	\$18,508	\$1,079,500	\$1,403,350	149%	-49%	8,188	-4,012	-49%
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	2 S	Z-01 G	urage	SW-01 Sodo	S-02 Kela (SP&BH)	3,519 4,139	9 1	\$18,987	1	\$13,007	1	\$34,325	1	\$14,504	690	\$117,978	1	\$7,384	2,300	\$148,451	6,900	\$101,216	12	\$9,356	\$697,812	\$907,155	81%	19%	4,139	786	19%
	3 S	Z-01 G	urage	SW-01 Sodo	S-03 Tiya (BH)	1,937 2,278	8 1	\$18,987	1	\$8,131	1	\$26,039	1	\$14,504	450	\$76,942	1	\$5,538	1,500	\$96,816	4,500	\$66,011	7	\$5,149	\$477,176	\$620,329	54%	46%	2,278	1,043	46%
	4 S	iZ-01 G	urage	SW-01 Sodo	S-04 Suten (BH)	1,298 1,52	7 2	\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,080	\$184,661	1	\$3,692	1,800	\$116,179	5,400	\$79,213	4	\$3,452	\$783,780	\$1,018,914	58%	42%	1,527	645	42%
	5 S	Z-01 G	urage	SW-03 Mareqo	S-06 Koshe (BH)	6,858 8,06	7 2	\$50,633	2	\$26,014	2	\$68,649	2	\$29,008	900	\$153,884	1	\$12,922	1,500	\$96,816	4,500	\$66,011	23	\$18,235	\$783,257	\$1,018,234	94%	6%	8,067	484	6%
	6 S	5Z-02 H	adiya	SW-04 Lemmo	S-07 Lisana(BH)	1,711 2,013	3 1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	450	\$76,942	1	\$5,538	1,500	\$96,816	4,500	\$66,011	6	\$4,550	\$517,939	\$673,321	283%	-183%	2,013	-3,684	-183%
	7 S	iZ-02 Η·	adiya	SW-05 Shashago	S-09 Dosha (BH)	1,881 2,213	3 1	\$18,987	1	\$8,131	1	\$26,039	1	\$14,504	450	\$76,942	1	\$3,692	1,500	\$96,816	4,500	\$66,011	6	\$5,002	\$474,187	\$616,443	10%	90%	2,213	2,001	90%
	8 S	Z-02 H	adiya	SW-07 Analemmo	S-11 Fonko (BH)	2,380 2,799	9 1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	600	\$102,589	1	\$5,538	2,000	\$129,088	6,000	\$88,014	8	\$6,327	\$640,488	\$832,635	139%	-39%	2,799	-1,092	-39%
1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.   1 No.	9 S	3Z-02 H	adiya	SW-08 Mirab Badawoch	S-12 Wada (SP&BH)	2,113 2,485	5 1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	510	\$87,201	1	\$5,538	1,700	\$109,724	5,100	\$74,812	7	\$5,617	\$567,493	\$737,741	3%	97%	2,485	2,410	97%
1	10 S	5Z-03 Kr	embata Timb	paro SW-09 Anigacha	S-13 Anigacha (BH)	6811 8,01	1 1	\$25,316	1	\$13,186	1	\$57,444	1	\$14,504	1,050	\$179,531	1	\$12,922	3,500	\$225,903	10,500	\$154,025	23	\$18,108	\$1,051,410	\$1,366,833	88%	12%	8,011	961	12%
2 Ca   Since   10   10   10   10   10   10   10   1	11 S	3Z-03 K€	embata Timba	ro SW-10 Kedia Gamela	S-14 Adilo (BH)	4,659 5,480	0 1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	450	\$76,942	1	\$13,845	1,500	\$96,816	4,500	\$66,011	16	\$12,387	\$542,155	\$704,801	16%	84%	5,480	4,603	84%
1	12 S	3Z-03 K€	embata Timba	ro SW-11 Dayiboya	S-15 Daniboya (BH)	8,111 9,54	1 2	\$50,633	2	\$32,525	2	\$114,889	2	\$29,008	1,200	\$205,179	2	\$44,304	2,000	\$129,088	6,000	\$88,014	27	\$21,566	\$1,072,808	\$1,394,651	42%	58%	9,541	5,534	58%
1 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	13 S	3Z-04 Si	idama	SW-12 Shebedio	S-16 Leku (BH)	11,810 13,892	2 1	\$12,658	1	\$6,593	1	\$26,039	1	\$14,504	1,200	\$205,179	1	\$22,152	4,000	\$258,175	12,000	\$176,028	40	\$31,401	\$1,129,096	\$1,467,824	157%	-57%	13,892	-7,918	-57%
1	14 S	5Z-04 Si	idama	SW-13 Dara	S-17 Kebado (BH)	8,365 9,839	9 2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,200	\$205,179	1	\$16,614	2,000	\$129,088	6,000	\$88,014	28	\$22,240	\$934,171	\$1,214,422	20%	80%	9,839	7,871	80%
1   1   1   1   1   1   1   1   1   1	15 S	3Z-04 Si	idama	SW-13 Dara	S-18 Teferi Kela (BH)	4,178 4,914	4 1	\$18,987	1	\$13,007	1	\$34,325	1	\$14,504	900	\$153,884	1	\$9,230	3,000	\$193,631	9,000	\$132,021	14	\$11,108	\$871,046	\$1,132,360	40%	60%	4,914	2,948	60%
	16 S	5Z-04 Si	idama	SW-14 Gorche	S-19 Goreche (SP)	2986 3,512	2 1	\$12,658	1	\$6,593	1	\$26,039	1	\$14,504	450	\$76,942	1	\$5,538	1,500	\$96,816	4,500	\$66,011	10	\$7,939	\$469,559	\$610,427	30%	70%	3,512	2,458	70%
	17 S	5Z-04 Si	idama	SW-15 Malga	S-20 Manicho (BH)	4,017 4,725	5 1	\$12,658	1	\$6,593	1	\$26,039	1	\$14,504	450	\$76,942	1	\$7,384	1,500	\$96,816	4,500	\$66,011	14	\$10,680	\$476,441	\$619,373	2.5%	98%	4,725	4,607	98%
2 52-06 Salama SV-19 Window Greet S-22 Chabo 14,600 17,204 4 578,949 4 582,770 4 596,177 4 200 5716,100 1 527,600 1,000 584,944 3,000 544,957 10 5130,300 350,2070 5718,471 1949 495 6,100 54,957 10 5130,371 10 1949 495 6,100 54,957 10 1949 1949 1949 1949 1949 1949 1949 1	18 S	3Z-04 Si	idama	SW-16 Wensho	S-21 Bokasa (Bokaso) (BH)	2,039 2,398	8 4	\$75,949	4	\$32,525	4	\$104,157	4	\$58,017	1,200	\$205,179	1	\$5,538	1,000	\$64,544	3,000	\$44,007	7	\$5,420	\$893,004	\$1,160,906	5%	95%	2,398	2,278	95%
2 S2-04 Scheme 69-14 Selection 69-15 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection 69-14 Selection	19 S	3Z-04 Si	idama	SW-41 Alta Chuko	S-22 Chuko (BH)	8,884 10,450	0 2	\$50,633	2	\$26,371	2	\$114,889	2	\$29,008	3,000	\$512,947	1	\$16,614	5,000	\$322,719	15,000	\$220,036	30	\$23,621	\$1,975,257	\$2,567,834	1113%	-1013%	10,450	-105,859	-1013%
2 2 5 2 6 Gene SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone SV-20 Rochone S	20 S	3Z-04 Si	idama	SW-18 Wendo Genet	S-23 Chuko	14,626 17,204	4 4	\$75,949	4	\$52,743	4	\$229,777	4	\$58,017	4,200	\$718,126	1	\$27,690	3,500	\$225,903	10,500	\$154,025	49	\$38,888	\$2,371,677	\$3,083,180	58%	42%	17,204	7,226	42%
2 52-05 Celebro Siv-27 Gene Code Siv-27 Gene Code (BH) 10,221 17,787 4 \$375,948 4 \$45,770 4 \$176,732 4 \$380,077 3,000 \$515,536 1 \$11,400 3,000 \$152,051 34 \$326,403 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$2,014,068 \$	21 S	3Z-04 Si	idama	SW-18 Wendo Genet	S-24 Ela (Kela) (SP)	5,259 6,186	6 2	\$37,975	2	\$13,186	2	\$52,079	2	\$29,008	600	\$102,589	1	\$11,076	1,000	\$64,544	3,000	\$44,007	18	\$13,983	\$552,670	\$718,471	194%	-94%	6,186	-5,815	-94%
24 S2.06 Welsylta SW22 Humbo S-30 Table (Humbo)(SP) 6.246 7.347 2 \$52,316 2 \$16,202 2 \$52,079 2 \$28,008 2.100 \$359,063 1 \$12,922 3.500 \$225,903 10,500 \$154,025 21 \$16,607 \$1,339,779 \$1,737,813 36% 64% 7.347 4.702 \$250,008 \$250,009 \$10,000 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,009 \$100,00	22 S	iZ-05 G	edeo	SW-20 Kochore	S-27 Fiseha Genet (BH)	4,189 4,92	7 4	\$75,949	4	\$52,028	4	\$137,298	4	\$58,017	3,600	\$615,536	1	\$9,230	3,000	\$193,631	9,000	\$132,021	14	\$11,137	\$1,927,273	\$2,505,454	33%	67%	4,927	3,301	67%
25 SZ-06 Wodsylins SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degree Parking SW-24 Degre	23 S	iZ-05 G	edeo	SW-21 Gedeb	S-28 Gedeb (BH)	10,021 11,78	7 4	\$75,949	4	\$45,710	4	\$176,752	4	\$58,017	3,600	\$615,536	1	\$18,460	3,000	\$193,631	9,000	\$132,021	34	\$26,643	\$2,014,081	\$2,618,305	8%	92%	11,787	10,844	92%
26 SZ-07 Gamo Gofa SW-28 Mirab Abaya S-34 Birbir (BH) 5.831 6.859 2 \$37.975 2 \$26.014 2 \$88.849 2 \$29.008 1.500 \$256.473 1 \$11.076 2.500 \$161.359 7.500 \$110.018 20 \$15.504 \$51.074,115 \$1.386,350 229% 1.29% 6.859 \$-8.044 \$2 \$29.008 1.500 \$256.473 1 \$11.076 2.500 \$161.359 7.500 \$110.018 20 \$15.504 \$51.074,115 \$1.386,350 229% 1.29% 6.859 \$-8.044 \$2 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.008 \$2.0	24 S	Z-06 W	/olayita	SW-23 Humbo	S-30 Tabela (Humbo)(SP)	6,246 7,347	7 2	\$25,316	2	\$16,262	2	\$52,079	2	\$29,008	2,100	\$359,063	1	\$12,922	3,500	\$225,903	10,500	\$154,025	21	\$16,607	\$1,336,779	\$1,737,813	36%	64%	7,347	4,702	64%
27 SZ-07 Gamo Gofa SW-27 Chencha S-35 Chenicha (SP&BH) 10,223 12,025 2 \$37,975 2 \$22,865 2 \$88,376 2 \$29,008 2,040 \$348,804 1 \$18,460 3,400 \$219,449 10,200 \$149,624 34 \$27,161 \$1,412,599 \$1,836,378 33% 67% 12,025 8,057	25 S	Z-06 W	/olayita	SW-24 Deguna Fanigo	S-32 Dimtu (SP)	1,702 2,002	2 2	\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	600	\$102,589	1	\$5,538	1,000	\$64,544	3,000	\$44,007	6	\$4,525	\$534,792	\$695,229	51%	49%	2,002	986	49%
28 SZ-07 Gamo Gofa SW-27 Chencha S-36 Ezo (BH) 1.822 2.143 4 \$75,949 4 \$32,525 4 \$104,157 4 \$58,017 960 \$164,143 1 \$3,692 800 \$51,635 2.400 \$35,206 6 \$4,844 \$795,252 \$1,033,828 0% 100% 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2.143 2	26 S	Z-07 G	amo Gofa	SW-26 Mirab Abaya	S-34 Birbir (BH)	5,831 6,859	9 2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,500	\$256,473	1	\$11,076	2,500	\$161,359	7,500	\$110,018	20	\$15,504	\$1,074,115	\$1,396,350	229%	-129%	6,859	-8,848	-129%
29 SZ-07 Gamo Gofa SW-27 Chencha S-37 Dorze (BH&SP) 1.256 1.477 2 \$37.975 2 \$16.262 2 \$52.079 2 \$29.008 360 \$61.554 1 \$3.692 600 \$38.726 1.800 \$26.404 4 \$3.339 \$403.558 \$524.626 1% 99% 1.477 1.462 30 SZ-07 Gamo Gofa SW-28 Amaro Special S-38 Kele (SP) 8.632 10.153 4 \$75.949 4 \$45.710 4 \$176.752 4 \$58.017 1.800 \$307.768 1 \$16.614 1.500 \$96.816 4.500 \$66.011 29 \$22.950 \$1.299.880 \$1.689.844 89% 11% 10.153 1.117 31 SZ-07 Gamo Gofa SW-29 Burji Special S-39 Soyama (SP) 6.268 7.373 2 \$37.975 2 \$26.014 2 \$68.649 2 \$29.008 1.500 \$256.473 1 \$12.922 2.500 \$161.359 7.500 \$110.018 21 \$16.666 \$1.078.627 \$1.402.215 1.2% 99% 7.373 7.283 1.299.800 \$1.500 \$256.473 1 \$1.2922 2.500 \$161.359 7.500 \$110.018 21 \$16.666 \$1.078.627 \$1.402.215 1.2% 99% 7.373 7.283 1.299.800 \$1.500 \$256.473 1 \$1.2922 2.500 \$161.359 7.500 \$110.018 21 \$16.666 \$1.078.627 \$1.402.215 1.2% 99% 7.373 7.283 1.299.800 \$1.500 \$256.473 1 \$1.2922 2.500 \$161.359 7.500 \$110.018 21 \$1.000 \$10.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$1.000 \$	27 S	Z-07 G	amo Gofa	SW-27 Chencha	S-35 Chenicha (SP&BH)	10,223 12,025	5 2	\$37,975	2	\$22,855	2	\$88,376	2	\$29,008	2,040	\$348,804	1	\$18,460	3,400	\$219,449	10,200	\$149,624	34	\$27,181	\$1,412,599	\$1,836,378	33%	67%	12,025	8,057	67%
30 SZ-07 Gamo Gofa SW-28 Amaro Special S-38 Kele (SP) 8,632 10,153 4 \$75,949 4 \$45,710 4 \$176,752 4 \$58,017 1,800 \$307,768 1 \$16,614 1,500 \$96,816 4,500 \$66,011 29 \$22,950 \$1,299,880 \$1,689,844 89% 11% 10,153 1,117   31 SZ-07 Gamo Gofa SW-29 Burji Special S-39 Soyama (SP) 6,268 7,373 2 \$37,975 2 \$26,014 2 \$68,649 2 \$29,008 1,500 \$256,473 1 \$12,922 2,500 \$110,018 21 \$16,666 \$1,078,627 \$1,402,215 1.2% 99% 7,373 7,283   32 SZ-07 Gamo Gofa SW-30 Konso Special S-41 Segen (BH) 3,626 4,265 2 \$37,975 2 \$26,014 2 \$68,649 2 \$29,008 900 \$153,884 1 \$7,384 1,500 \$96,816 4,500 \$66,011 12 \$9,641 \$743,072 \$965,993 106% -6% 4,265 -266   33 SZ-07 Gamo Gofa SW-31 Darashe Special S-42 Gidole (SP) 13,176 15,498 4 \$75,949 4 \$32,525 4 \$104,157 4 \$58,017 3,000 \$512,947 1 \$23,998 2,500 \$110,018 44 \$35,032 \$1,671,003 \$2,172,304 34% 66% 15,498 10,229	28 S	Z-07 G	amo Gofa	SW-27 Chencha	S-36 Ezo (BH)	1,822 2,143	3 4	\$75,949	4	\$32,525	4	\$104,157	4	\$58,017	960	\$164,143	1	\$3,692	800	\$51,635	2,400	\$35,206	6	\$4,844	\$795,252	\$1,033,828	0%	100%	2,143	2,143	100%
31 SZ-07 Gamo Gofa SW-29 Burji Special S-39 Soyama (SP) 6,268 7,373 2 \$37,975 2 \$26,014 2 \$68,649 2 \$29,008 1,500 \$256,473 1 \$12,922 2,500 \$161,359 7,500 \$110,018 21 \$16,666 \$1,078,627 \$1,402,215 1.2% 99% 7,373 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283 7,283	29 S	Z-07 G	amo Gofa	SW-27 Chencha	S-37 Dorze (BH&SP)	1,256 1,477	7 2	\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	360	\$61,554	1	\$3,692	600	\$38,726	1,800	\$26,404	4	\$3,339	\$403,558	\$524,626	1%	99%	1,477	1,462	99%
32 SZ-07 Gamo Gofa SW-30 Konso Special S-41 Segen (BH) 3,626 4,265 2 \$37,975 2 \$26,014 2 \$68,649 2 \$29,008 900 \$153,884 1 \$7,384 1,500 \$96,816 4,500 \$66,011 12 \$9,641 \$743,072 \$965,993 106% -6% 4,265 -256	30 S	Z-07 G	amo Gofa	SW-28 Amaro Special	S-38 Kele (SP)	8,632 10,153	3 4	\$75,949	4	\$45,710	4	\$176,752	4	\$58,017	1,800	\$307,768	1	\$16,614	1,500	\$96,816	4,500	\$66,011	29	\$22,950	\$1,299,880	\$1,689,844	89%	11%	10,153	1,117	11%
33 SZ-07 Gamo Gofa SW-31 Darashe Special S-42 Gidole (SP) 13,176 15,498 4 \$75,949 4 \$32,525 4 \$104,157 4 \$58,017 3,000 \$512,947 1 \$23,998 2,500 \$161,359 7,500 \$110,018 44 \$35,032 \$1,671,003 \$2,172,304 34% 66% 15,498 10,229	31 S	Z-07 G	amo Gofa	SW-29 Burji Special	S-39 Soyama (SP)	6,268 7,373	3 2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,500	\$256,473	1	\$12,922	2,500	\$161,359	7,500	\$110,018	21	\$16,666	\$1,078,627	\$1,402,215	1.2%	99%	7,373	7,283	99%
	32 S	Z-07 G	amo Gofa	SW-30 Konso Special	S-41 Segen (BH)	3,626 4,268	5 2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	900	\$153,884	1	\$7,384	1,500	\$96,816	4,500	\$66,011	12	\$9,641	\$743,072	\$965,993	106%	-6%	4,265	-256	-6%
34 SZ-08 Silite SW-32 Siliti S-43 Kibat (BH) 5,676 6,676 4 \$101,266 4 \$52,743 4 \$229,777 4 \$58,017 3,000 \$512,947 2 \$22,152 2,500 \$161,359 7,500 \$110,018 19 \$15,090 \$1,895,054 \$2,463,570 187% -87% 6,676 -5,808	33 S	Z-07 G	amo Gofa	SW-31 Darashe Special	S-42 Gidole (SP)	13,176 15,498	8 4	\$75,949	4	\$32,525	4	\$104,157	4	\$58,017	3,000	\$512,947	1	\$23,998	2,500	\$161,359	7,500	\$110,018	44	\$35,032	\$1,671,003	\$2,172,304	34%	66%	15,498	10,229	66%
	34 S	Z-08 Si	ilite	SW-32 Siliti	S-43 Kibat (BH)	5,676 6,676	6 4	\$101,266	4	\$52,743	4	\$229,777	4	\$58,017	3,000	\$512,947	2	\$22,152	2,500	\$161,359	7,500	\$110,018	19	\$15,090	\$1,895,054	\$2,463,570	187%	-87%	6,676	-5,808	-87%
35 SZ-08 Silite SW-32 Siliti S-44 Alkeso (BH) 1,028 1,209 1 \$18,987 1 \$6,593 1 \$26,039 1 \$14,504 750 \$128,237 1 \$3,692 2,500 \$161,359 7,500 \$110,018 3 \$2,733 \$708,244 \$920,717 672% -572% 1,209 -6,915	35 S	jZ-08 Si	ilite	SW-32 Siliti	S-44 Alkeso (BH)	1,028 1,209	9 1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	750	\$128,237	1	\$3,692	2,500	\$161,359	7,500	\$110,018	3	\$2,733	\$708,244	\$920,717	672%	-572%	1,209	-6,915	-572%

## データ 7.4 82小都市の給水施設規模と概算事業費(2/3)

5 02-30 Silva													<u> </u>	7.7	021	1   11   11	マン小口ノ	リトルに			<u>ルナナナ</u>	<u> </u>	<u>ر ۲</u> / ۲	/								
3 CO Gree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree Stree St	36 SZ-08 Silite	SW-33	Lanifaro (Lanfuro)	S-46	Tora (BH)	9,163	10,778	4	\$75,949	4	\$45,710	4	\$176,752	4	\$58,017	3,360	\$574,501	1	\$16,614	2,800	\$180,723	8,400	\$123,220	31	\$24,363	\$1,913,772	\$2,487,904	30%	70%	10,778	7,545	70%
5   \$2.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1.50   \$1	37 SZ-08 Silite	SW-33	Lanifaro (Lanfuro)	S-47	Mito (BH)	3,277	3,85	2	\$50,633	2	\$26,014	2	\$68,649	2	\$29,008	1,200	\$205,179	1	\$11,076	2,000	\$129,088	6,000	\$88,014	11	\$8,714	\$924,562	\$1,201,931	310%	-210%	3,855	-8,096	-210%
2 C S SINCE SINCE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE	38 SZ-08 Silite	SW-34	Dalocha	S-48	Dalocha (SP)	7,024	8,262	1	\$27,848	1	\$13,186	1	\$57,444	1	\$14,504	810	\$138,496	1	\$12,922	2,700	\$174,268	8,100	\$118,819	24	\$18,675	\$864,244	\$1,123,517	69%	31%	8,262	2,561	31%
4 S2-05 Site Site Site Site Site Site Site Site	39 SZ-08 Silite	SW-35	Sankura	S-49	Alem Gebeya (BH)	3,656	4,300	2	\$75,949	2	\$32,525	2	\$114,889	2	\$29,008	1,500	\$256,473	1	\$11,076	2,500	\$161,359	7,500	\$110,018	12	\$9,720	\$1,201,526	\$1,561,984	163%	-63%	4,300	-2,709	-63%
2 S2-01 Curage 9/V22 Messam 5-53 Hama-chianywithronicipin 1,152 4,88 2 2 850,853 2 2 1510,202 2 220,003 440 1820,072 1 1513,845 80 51,855 2,400 530,200 14 511,000 18512,800 1860,470 220 795 4,884 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 484,844 3,025 1 48	40 SZ-08 Silite	SW-35	Sankura	S-51	Mazoria (BH)	2,730	3,21	1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	360	\$61,554	1	\$8,307	1,200	\$77,453	3,600	\$52,809	9	\$7,258	\$410,255	\$533,332	14%	86%	3,211	2,761	86%
3 \$2.00 Noting Notes Sharkage \$5.64 Noting Notes Sharkage \$5.64 Noting Notes Sharkage \$5.00 Notes National (BHS) \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$	41 SZ-08 Silite	SW-36	Wilbareg	S-52	Wilbareg (Bilbareg) (BH)	2,197	2,584	2	\$37,975	2	\$13,186	2	\$52,079	2	\$29,008	1,200	\$205,179	1	\$5,538	2,000	\$129,088	6,000	\$88,014	7	\$5,841	\$848,860	\$1,103,518	78%	22%	2,584	568	22%
4 SZ 22 Hadyly SW 06 Nature Restaurch 6-56 Weylan Macarita (BH) 0.346 9,817 2 \$50,833 2 \$32,255 2 \$114,886 2 \$20,000 500 \$153,884 2 \$48,842 1,500 \$50,816 4,500 \$50,817 28 \$52,900 \$120,800 \$120,800 \$1,000 \$50,807 3,500 \$57,000 \$151,124,40 \$1,460,970 44 506,077 45 5,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140,000 \$140	42 SZ-01 Gurage	SW-02	Meskan	S-53	Hamus-Gabeya(Bamo)(BH	4,152	4,884	2	\$50,633	2	\$16,262	2	\$52,079	2	\$29,008	480	\$82,072	1	\$13,845	800	\$51,635	2,400	\$35,206	14	\$11,040	\$512,669	\$666,470	22%	78%	4,884	3,825	78%
8 SZ-06 Gedeo SW-20 Kochore S-66 Bloya (SP) 4.484 5.276 4 \$75,949 4 \$52,028 4 \$137,208 4 \$58,017 1.560 \$266,732 1 \$9,230 1.300 \$88,007 3,900 \$57,209 15 \$11,924 \$11,28,438 \$1,466,670 446 96% 5.274 5.063 198,007 3,900 \$20,007,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15 \$11,007 15	43 SZ-02 Hadiya	SW-05	Shashago	S-54	Hirkofofo (BH)	2,590	3,047	2	\$50,633	2	\$22,855	2	\$88,376	2	\$29,008	300	\$51,295	1	\$8,307	500	\$32,272	1,500	\$22,004	9	\$6,887	\$467,455	\$607,692	12%	88%	3,047	2,694	88%
Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   S	44 SZ-02 Hadiya	SW-06	Misrak Badawoch	o S-55	Weyira Mazoria (BH)	8,346	9,81	2	\$50,633	2	\$32,525	2	\$114,889	2	\$29,008	900	\$153,884	2	\$49,842	1,500	\$96,816	4,500	\$66,011	28	\$22,190	\$923,696	\$1,200,805	0%	100%	9,817	9,817	100%
47 SZ-06 Wolayta SW-37 Damot Pulsas S-56 Shento (BH) 5,345 6,287 1 \$25,316 1 \$16,262 1 \$57,444 1 \$14,504 540 \$92,330 1 \$16,614 1,800 \$116,179 5,400 \$79,213 18 \$14,211 \$848,112 \$842,545 13% 87% 6,287 5,470 18 \$25,016 1 \$15,000 \$153,884 1 \$13,845 1,500 \$96,816 4,500 \$86,011 16 \$12,688 \$988,863 \$908,522 6% 94% 5,613 5,276 19 \$25,016 2 \$16,262 2 \$52,079 2 \$29,008 900 \$153,884 1 \$13,845 1,500 \$96,816 4,500 \$86,011 16 \$12,688 \$988,863 \$908,522 6% 94% 5,613 5,276 19 \$25,016 2 \$16,262 2 \$52,079 2 \$28,008 1,080 \$184,661 1 \$14,788 1,800 \$116,179 5,400 \$79,213 24 \$19,200 \$863,500 \$11,22,550 24% 76% 8,494 6,455 19 \$25,016 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,262 2 \$16,26	45 SZ-05 Gedeo	SW-20	Kochore	S-56	Biloya (SP)	4,484	5,27	4	\$75,949	4	\$52,028	4	\$137,298	4	\$58,017	1,560	\$266,732	1	\$9,230	1,300	\$83,907	3,900	\$57,209	15	\$11,921	\$1,128,438	\$1,466,970	4%	96%	5,274	5,063	96%
48 SZ-06 Wolaylia SW-38 Sodo Zuria S-59 Dato Magazia Alovin (SP) 4,772 5,613 2 SZ5,316 2 S16,262 2 SZ2,079 2 SZ9,008 900 S153,884 1 S13,845 1,500 S96,816 4,500 S66,011 16 S12,688 S698,663 S908,522 6% 94% 5,613 5,276 S276 S277 S277 S277 S277 S277 S277 S	46 SZ-05 Gedeo	SW-21	Gedeb	S-57	Chorso-Mazoria (BH&SP)	8500	9,998	3 2	\$37,975	2	\$22,855	2	\$88,376	2	\$29,008	1,200	\$205,179	1	\$16,614	2,000	\$129,088	6,000	\$88,014	29	\$22,599	\$959,562	\$1,247,431	26%	74%	9,998	7,399	74%
49 SZ-07 Gamo Gofa SW-39 Arba Minch Zuria S-60 Lanite (BH) 7.221 8.494 2 \$37,975 2 \$26,014 2 \$68,649 2 \$29,008 1,080 \$184,661 1 \$14,768 1,800 \$116,179 5,400 \$79,213 24 \$19,200 \$863,500 \$1,122,550 24% 76% 8,494 6,455 7.019 5 \$49,937 5 \$65,035 5 \$171,623 5 \$72,521 1,500 \$256,473 2 \$22,152 1,000 \$84,544 3,000 \$44,007 20 \$15,866 \$1,210,736 \$1,573,957 0% 100% 7,019 7,019 10 \$1,52-08 Silite SW-30 Siliti S-62 Udasa (BH) 4,470 5,258 1 \$18,987 1 \$13,007 1 \$34,325 1 \$14,504 600 \$102,589 1 \$13,845 2,000 \$129,088 6,000 \$88,014 15 \$11,885 \$639,367 \$831,177 20% 80% 5,258 4,206 1 \$2,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,520 \$1,5	47 SZ-06 Wolayita	SW-37	Damot Pulasa	S-58	Shento (BH)	5,345	6,28	1	\$25,316	1	\$16,262	1	\$57,444	1	\$14,504	540	\$92,330	1	\$16,614	1,800	\$116,179	5,400	\$79,213	18	\$14,211	\$648,112	\$842,545	13%	87%	6,287	5,470	87%
50 SZ-07 Gamo Gofa SW-30 Konso Special S-61 Gewada (nil.) 5,967 7,019 5 \$94,937 5 \$65,035 5 \$171,623 5 \$72,521 1,500 \$256,473 2 \$22,152 1,000 \$64,544 3,000 \$44,007 20 \$15,866 \$1,210,736 \$1,573,957 0% 100% 7,019 7,019 100	48 SZ-06 Wolayita	SW-38	Sodo Zuria	S-59	Dalbo Wegene Atowa (SP)	4,772	5,613	3 2	\$25,316	2	\$16,262	2	\$52,079	2	\$29,008	900	\$153,884	1	\$13,845	1,500	\$96,816	4,500	\$66,011	16	\$12,688	\$698,863	\$908,522	6%	94%	5,613	5,276	94%
51 SZ-08 Silite SW-32 Siliti S-62 Udasa (BH) 4,470 5,258 1 \$18,987 1 \$13,007 1 \$34,325 1 \$14,504 600 \$102,589 1 \$13,845 2,000 \$129,088 6,000 \$88,014 15 \$11,885 \$639,367 \$831,177 20% 80% 5,258 4,206 1 \$2 SZ-08 Silite SW-40 Alicho wuriro S-63 Kawakoto (SP) 783 921 1 \$18,987 1 \$6,593 1 \$26,039 1 \$14,504 540 \$92,330 1 \$2,769 1,800 \$116,179 5,400 \$79,213 3 \$2,082 \$538,045 \$699,458 27% 73% 921 672 SNNPRS Average 5,284 6,215 2 \$42,405 2 \$23,154 2 \$78,174 2 \$30,124 1,268 \$216,720 1 \$12,940 2,060 \$132,935 6,179 \$90,638 18 \$14,049 \$961,710 \$1,250,223 95% - 6,215	49 SZ-07 Gamo Gofa	SW-39	Arba Minch Zuri	a S-60	Lanite (BH)	7,221	8,49	2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,080	\$184,661	1	\$14,768	1,800	\$116,179	5,400	\$79,213	24	\$19,200	\$863,500	\$1,122,550	24%	76%	8,494	6,455	76%
52 SZ-08 Silite SW-40 Alicho wuriro S-63 Kawakoto (SP) 783 921 1 \$18,987 1 \$6,593 1 \$26,039 1 \$14,504 540 \$92,330 1 \$2,769 1,800 \$116,179 5,400 \$79,213 3 \$2,082 \$538,045 \$699,458 27% 73% 921 672 578,174 2 \$30,124 1,268 \$216,720 1 \$12,940 2,060 \$132,935 6,179 \$90,638 18 \$14,049 \$961,710 \$1,250,223 95% - 6,215	50 SZ-07 Gamo Gofa	SW-30	Konso Special	S-61	Gewada (nil.)	5,967	7,019	5	\$94,937	5	\$65,035	5	\$171,623	5	\$72,521	1,500	\$256,473	2	\$22,152	1,000	\$64,544	3,000	\$44,007	20	\$15,866	\$1,210,736	\$1,573,957	0%	100%	7,019	7,019	100%
SNNPRS Average 5,284 6,215 2 \$42,405 2 \$23,154 2 \$78,174 2 \$30,124 1,268 \$216,720 1 \$12,940 2,060 \$132,935 6,179 \$90,638 18 \$14,049 \$961,710 \$1,250,223 95% - 6,215	51 SZ-08 Silite	SW-32	Siliti	S-62	Udasa (BH)	4,470	5,25	1	\$18,987	1	\$13,007	1	\$34,325	1	\$14,504	600	\$102,589	1	\$13,845	2,000	\$129,088	6,000	\$88,014	15	\$11,885	\$639,367	\$831,177	20%	80%	5,258	4,206	80%
	52 SZ-08 Silite	SW-40	Alicho wuriro	S-63	Kawakoto (SP)	783	92	1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	540	\$92,330	1	\$2,769	1,800	\$116,179	5,400	\$79,213	3	\$2,082	\$538,045	\$699,458	27%	73%	921	672	73%
SNNPRS Total 274,776 \$323,204 108 \$2,205,063 108 \$1,204,025 108 \$4,065,055 108 \$1,566,456 65,910 \$11,269,445 56 \$672,864 107,100 \$6,912,638 321,300 \$4,713,163 923 \$730,570 \$50,008,919 \$65,011,594		SNI	NPRS Averaç	ge		5,284	6,21	2	\$42,405	2	\$23,154	2	\$78,174	2	\$30,124	1,268	\$216,720	1	\$12,940	2,060	\$132,935	6,179	\$90,638	18	\$14,049	\$961,710	\$1,250,223	95%	-	6,215	-	-
		SI	NNPRS Total			274,776	¥323,20	108	\$2,205,063	108	\$1,204,025	108	\$4,065,055	108	\$1,566,456	65,910	\$11,269,445	56	\$672,864	107,100	\$6,912,638	321,300	\$4,713,163	923	\$730,570	\$50,008,919	\$65,011,594	-	-	-	-	-

* Note ···⑥Negative values of Beneficiary population (2015): Due to the water coverage caluculated based on the unit supply amount of 20lpcd, the coverage for 2010 exceeds 100%. The corresponding negative beneficially population values should be considered "zero".

# データ 7.4 82小都市の給水施設規模と概算事業費(3/3)

		Ord	omia region	( 30 tow	ns)	Town populatio	n Tub	e well	Pı	ump	Ge	enerator	Genera	ator House		ince pipe line		servoir tank		ssion pipe line		ion pipe line		faucets		Project cost (Incl.	Water coverage (2010)	Out of water coverage	Population	Beneficiary population (2015)	Beneficiary ratio (2015)
						Q'ty	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	計	Q'ty	Cost	Implementation cost	consulting service)	20lpcd	100 - Water	2015	(2010)	(2013)
No.		Zone	Woreda	a .	Small Town	2010 2015		ren75,84/\$		en75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		/en75,84/\$		Yen75,84/\$		Yen75,84/\$		ren75,84/\$	(T)	2	3	coverage ④	(5)	6	7
						Persons	nos.	\$	nos.		nos.	\$	nos.	\$	m	\$	nos.	\$	m	¢	m	ė	nos.	\$	US\$	US\$		=100%-③	•	= <b>4</b> × <b>5</b>	=6÷5
	OZ-01 A	\:	OW-01 Hitosa		01 Iteya (SP)	14,239 16,74		\$18,987	1103.	\$6,593	1103.	\$26,039	1103.	\$14,504	1,650	*	1103.	\$25,844	5,500	\$354,991	16,500	\$242,039	48	\$37,859	¥1,513,467	¥1,967,507	137%		16,749	-6,188	-9.9
	-														·		'													·	
	OZ-01 A		OW-02 Ziway Du		02 Ogolcha (Agolcho)(BH)	4,759 5,59		\$25,316	1	\$8,131	1	\$26,039	1	\$14,504	1,050		1	\$9,230	3,500			\$154,025	16	\$12,654	¥983,002	¥1,277,902	129%		5,598	-1,623	-29%
	OZ-01 A		OW-03 Tiyo		03 Gonde (SP)	4,350 5,11		\$18,987	1	\$11,428	1	\$44,188	1	\$14,504	1,200		1	\$9,230	4,000	\$258,175		\$176,028	15	\$11,566	¥1,123,929	¥1,461,107	401%		5,117	-15,402	
4	OZ-01 A	Arsi	OW-04 Digaluna	a Tijo O-	05 Kidame Digelu (SP)	1,780 2,09	1 1	\$18,987	1	\$8,131	1	\$26,039	1	\$14,504	540	\$92,330	1	\$5,538	1,800	\$116,179	5,400	\$79,213	6	\$4,733	¥548,483	¥713,028	535%	-435%	2,094	-9,109	-435%
5	OZ-01 A	Arsi	OW-04 Digaluna	a Tijo O-	06 Sagure (SP)	10,926 12,85	2	\$50,633	2	\$32,525	2	\$114,889	2	\$29,008	1,200	\$205,179	2	\$60,918	2,000	\$129,088	6,000	\$88,014	37	\$29,051	¥1,108,955	¥1,441,642	87%	13%	12,852	1,671	13%
6	OZ-01 A	Arsi	OW-05 Munesa	0-	07 Kersa (SP)	9,916 11,66	4 4	\$75,949	4	\$52,028	4	\$137,298	4	\$58,017	5,400	\$923,305	1	\$18,460	4,500	\$290,447	13,500	\$198,032	33	\$26,365	¥2,669,852	¥3,470,807	251%	-151%	11,664	-17,613	-151%
7	OZ-04 V	Vest Arsi	OW-20 Limana B	Bilbilo O-	09 Meraro (SP)	4,725 5,55	8 1	\$18,987	1	\$13,007	1	\$26,039	1	\$14,504	960	\$164,143	1	\$9,230	3,200	\$206,540	9,600	\$140,823	16	\$12,563	¥908,756	¥1,181,382	17%	83%	5,558	4,613	83%
8	OZ-04 V	West Arsi	OW-08 Kofele	0-	10 Kofele (BH)	14,401 16,93	9 5	\$94,937	5	\$81,312	5	\$287,222	5	\$72,521	7,500	\$1,282,367	2	\$83,070	5,000	\$322,719	15,000	\$220,036	48	\$38,289	¥3,723,707	¥4,840,820	38%	62%	16,939	10,502	2 62%
9	OZ-01 A	Arsi	OW-03 Tiyo	0-	11 Kulumsa (nil)	3,472 4,08	1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	600	\$102,589	1	\$7,384	2,000	\$129,088	6,000	\$88,014	12	\$9,231	¥603,646	¥784,739	12%	88%	4,084	3,594	88%
10	OZ-01 A	Arsi	OW-01 Hitosa	0-	12 Boru Jawi (SP)	4,446 5,23	2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,200	\$205,179	1	\$9,230	2,000	\$129,088	6,000	\$88,014	15	\$11,822	¥907,468	¥1,179,708	37%	63%	5,230	3,295	63%
11	OZ-03 E	East Shewa	OW-16 Adami Tulu Kombolcha	u & Jido a O-	20 Abosa (BH)	3,578 4,20	19 1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	330	\$56,424	1	\$11,076	1,100	\$70,998	3,300	\$48,408	12	\$9,514	¥393,816	¥511,960	31%	69%	4,209	2,904	69%
12	OZ-03 E	East Shewa	OW-16 Adami Tulu Kombolcha	u & Jido a O-	22 Adami Tulu (BH)	8,166 9,60	5 4	\$101,266	4	\$65,049	4	\$229,777	4	\$58,017	4,200	\$718,126	1	\$14,768	3,500	\$225,903	10,500	\$154,025	27	\$21,711	¥2,382,963	¥3,097,853	258%	-158%	9,605	-15,176	-158%
13	OZ-03 E	East Shewa	OW-16 Adami Tulu Kombolcha	u & Jido a O-	28 Jido (BH)	2,659 3,12	18 1	\$18,987	1	\$11,428	1	\$44,188	1	\$14,504	540	\$92,330	1	\$8,307	1,800	\$116,179	5,400	\$79,213	9	\$7,071	¥588,310	¥764,803	148%	-48%	3,128	-1,501	-48%
14	OZ-01 A	Arsi	OW-03 Tiyo	0-	29 Katar Genet (nil.)	3,953 4,65	0 1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	960	\$164,143	1	\$11,076	3,200	\$206,540	9,600	\$140,823	13	\$10,511	¥942,793	¥1,225,631	0%	100%	4,650	4,650	100%
15	OZ-01 A	Arsi	OW-20 Limana B	Bilbilo O-	30 Lemo Sirba (SP)	5,590 6,57	5 2	\$50,633	2	\$22,855	2	\$88,376	2	\$29,008	1,500	\$256,473	1	\$11,076	2,500	\$161,359	7,500	\$110,018	19	\$14,862	¥1,116,992	¥1,452,089	32%	68%	6,575	4,471	68%
16	OZ-02 E	Borena	OW-09 Teltele	0-	31 Milami (BH)	4,510 5,30	15 2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,260	\$215,438	1	\$13,845	2,100	\$135,542	6,300	\$92,415	15	\$11,991	¥946,316	¥1,230,210	29%	71%	5,305	3,767	7 71%
17	OZ-02 E	Borena	OW-21 Bure Ha	ara O-	32 Garaba (BH)	7,500 8,82	2 2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,800	\$307,768	1	\$14,768	3,000	\$193,631	9,000	\$132,021	25	\$19,941	¥1,244,664	¥1,618,064	148%	-48%	8,822	-4,235	-48%
18	OZ-02 E	Borena	OW-10 Yabelo	0-	33 El Woyya(Wayya) (BH)	4,090 4,81	1 1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	300	\$51,295	1	\$7,384	1,000	\$64,544	3,000	\$44,007	14	\$10,875	¥366,342	¥476,245	7%	93%	4,811	4,474	93%
19	OZ-04 V	Vest Arsi	OW-22 Wondo		34 Bura (Busa) (BH)	5,112 6,01	3 2	\$37,975	2	\$13,186	2	\$52,079	2	\$29,008	1,500	\$256,473	1	\$9,230	2,500	\$161,359	7,500	\$110,018	17	\$13,592	¥1,024,380	¥1,331,694	6%	94%	6,013	5,660	94%
	+	East Shewa	OW-19 Adama		35 Awash Mercasa (BH)	10,200 11,99		\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,800		1	\$18,460	3,000		9,000	\$132,021	34	\$27,120	¥1,221,488	¥1,587,934	57%		11,998	5,199	
	-	East Shewa	OW-23 Bosat		36 Walanciti (BH)	11,260 13,24		\$94,937	5	\$40,656	5	\$130,197		\$72,521	9,750		2	\$60,918	6,500	\$419,535		\$286,046	38	\$29,939	¥4,202,738	¥5,463,560			13,245	-31,523	-238%
	-	East Shewa	OW-23 Bosat		37 Doni (nil.)	4,164 4,89		\$18,987	4	\$8,131	4	\$26,039	1	\$14,504	600		4	\$13,845	2,000	\$129,088		\$88,014	14	\$11,071	¥618,404	¥803,926	0%		4,898	4,898	
					38 Befa (Bofa) (BH)	, . , . ,			- 1				1			_							14								100%
	-	East Shewa	OW-23 Bosat					\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,620	\$276,991	1	\$19,383	2,700	\$174,268		\$118,819	24	\$18,718	¥1,115,256	¥1,449,833	183%		8,281	-6,873	-83%
		Vest Arsi	OW-22 Wondo		39 Intaye (nil.)	8,500 9,99		\$37,975	2	\$16,262	2	\$52,079	2	\$29,008			1	\$16,614	2,800			\$123,220		\$22,599	¥1,148,595	¥1,493,174			9,998	9,998	
	-	Vest Arsi	OW-08 Kofele		40 Kabate (BH)	4,146 4,87		\$37,975	2	\$13,186	2	** ** *	2	\$29,008	1,080		1	\$13,845	1,800			\$79,213		\$11,024	¥805,753	¥1,047,479			4,877	4,524	
	-+	Vest Arsi	OW-14 Sheshen	mane O-	41 Awasho-Dhanku (BH)	7,040 8,28	1 4	\$75,949	4	\$26,371	4	\$104,157	4	\$58,017	2,880	\$492,429	1	\$19,383	2,400	\$154,905	7,200	\$105,617	24	\$18,718	¥1,583,321	¥2,058,317	0.0%	100%	8,281	8,281	100%
27	OZ-04 V	West Arsi	OW-14 Sheshen	mane O-	42 Hursa (BH&SP)	5,700 6,70	5 4	\$75,949	4	\$26,371	4	\$104,157	4	\$58,017	2,400	\$410,358	1	\$16,614	2,000	\$129,088	6,000	\$88,014	19	\$15,156	¥1,385,586	¥1,801,262	3.5%	97%	6,705	6,470	97%
28	OZ-02 E	Borena	OW-12 Mijo (Mi)	yo) O-	43 Hidi-Lola (BH)	6,550 7,70	14 2	\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,500	\$256,473	1	\$12,922	2,500	\$161,359	7,500	\$110,018	22	\$17,414	¥1,040,266	¥1,352,346	23%	77%	7,704	5,940	77%
29	OZ-02 E	Borena	OW-13 Dugda d	lawa O-	44 Fincadaa (Fincawaa) (BH)	7,200 8,46	9 2	\$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,500	\$256,473	1	\$14,768	2,500	\$161,359	7,500	\$110,018	24	\$19,143	¥1,045,629	¥1,359,318	122%	-22%	8,469	-1,882	-22%
30	OZ-03 E	East Shewa	OW-24 Liben	0-	45 Adulala (nil.)	3,601 4,23	6 1	\$18,987	1	\$8,131	1	\$26,039	1	\$14,504	450	\$76,942	1	\$11,076	1,500	\$96,816	4,500	\$66,011	12	\$9,575	¥492,122	¥639,759	0%	100%	4,236	4,236	100%
L			Oromia Regio	n Averag	e	6,452 7,59	0 2	\$41,350	2	\$23,205	2	\$78,039	2	\$30,327	1,965	\$321,991	1	\$18,124	2,797	\$182,483	8,390	\$124,420	22	\$16,856	\$1,258,567	\$1,636,137	101%	-	7,590	-	-
			Oromia Reg	ion Total		193,573 227,69	62	\$1,240,506	62	\$639,077	62	\$2,133,489	62	\$899,262	58,950	\$10,079,408	33	\$557,489	83,900	\$5,415,223	251,700	\$3,692,197	651	\$514,681	\$37,757,001	\$49,084,101	-	-	-	-	-
								-																	· ·						

* Note ···· (6) Negative values of Beneficiary population (2015): Due to the current water coverage as 20 lpcd. In 2010 are exceeded 100%, that are considered to be Zero.

Average of 2 regions (SNNPRS+Oromia=82 towns)	5,868	6,903	2 \$41,878	2 \$23,180	2 \$78,107		2 \$30,226	1,616	\$269,355	1	\$15,532	2,428	\$157,709 7,2	284 \$107,5	9 20	\$15,453	\$1,110,138	\$1,443,180	98%	-	6,903	-	-
Total of 2 regions (SNNPRS+Oromia=82 towns)	468,349	550,899 1	70 \$3,445,570	170 \$1,843,103	170 \$6,198,544	17	70 \$2,465,717	124,860	\$21,348,854	89	\$1,230,353	191,000	\$12,327,861 573,0	000 \$8,405,36	0 1,574	\$1,245,251	\$87,765,919	\$114,095,695	-		-	-	-

Average of 2 regions (SNNPRS+Oromia)

Total of 2 regions (SNNPRS+Oromia)

5,766 6,782 2 \$44,879

114,875 135,124 44 \$886,076

\$83,035

44 \$1,643,003

\$32,378

1,622 \$277,302

\$638,186 31,320 \$5,355,167

\$23,291

\$461,882

### データ 7.5 優先小都市の給水施設規模と概算事業費

SNNPRS (High priority 11 towns)  * Selected by Water potential, water quality, Water coverage and Beneficial							n popu	ılation Tu		e well		Pump	Generator		Generator House		e Convayance pipe line Water			ervoir tank	Transmission pipe line		Distribution pipe line		Pub	lic faucets	Implementation	Project cost (Incl.	Water coverage (2010)			Beneficiary population (2015)	Beneficiary ratio (2015)
* Selected by water potential, water quality, water coverage and Beneficial efffect (except population, Existing rights & Disputes and Accesibilityetc.)							Q'ty	Q'	ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost Q	'ty	Cost	Q'ty	Cost	Q'ty 計	āt	Q'ty	Cost	cost	service)	20lpcd	Water	2015		
No.	Zone		Woreda		Small Town	201	0 2	015	Υ	en75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	Ye	en75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	1	2	3	4	5	6	7
					Oman 10wn		Person	sons nos		\$	nos.	\$	nos.	\$	nos.	\$	m	\$ no	os.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③	)	=4 × 5	=6÷5
1 SZ-0	2 Hadiya	SW-0	5 Shashago	S-0	Dosha (BH)	1,8	381	2,213	1	\$18,987	1	\$8,131	1	\$26,039	1	\$14,504	450	\$76,942	1	\$3,692	1,500	\$96,816	4,500	\$66,011	6	\$5,002	\$474,187	\$616,443	10%	90%	2,213	2,00	1 90%
2 SZ-0	3 Kembata Timbar	sW-1	0 Kedia Gamela	S-1	Adilo (BH)	4,6	659	5,480	1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	450	\$76,942	1	\$13,845	1,500	\$96,816	4,500	\$66,011	16	\$12,387	\$542,155	\$704,801	16%	84%	5,480	4,600	3 84%
3 SZ-0	3 Kembata Timbar	sW-1	1 Dayiboya	S-1	Daniboya (BH)	8,1	111	9,541	2	\$50,633	2	\$32,525	2	\$114,889	2	\$29,008	1,200	\$205,179	2	\$44,304	2,000	\$129,088	6,000	\$88,014	27	\$21,566	\$1,072,808	\$1,394,651	42%	58%	9,541	5,53	4 58%
4 SZ-0	4 Sidama	SW-1	3 Dara	S-1	Kebado (BH)	8,3	365	9,839	2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,200	\$205,179	1	\$16,614	2,000	\$129,088	6,000	\$88,014	28	\$22,240	\$934,171	\$1,214,422	20%	80%	9,839	7,87	1 80%
5 SZ-0	Wolayita	SW-2	3 Humbo	S-3	Tabela (Humbo)(SP)	6,2	246	7,347	2	\$25,316	2	\$16,262	2	\$52,079	2	\$29,008	2,100	\$359,063	1	\$12,922	3,500	\$225,903	10,500	\$154,025	21	\$16,607	\$1,336,779	\$1,737,813	36%	64%	7,347	4,70	2 64%
6 SZ-0	Silite	SW-3	3 Lanifaro (Lanfuro)	S-4	Tora (BH)	9,1	163 1	0,778	4	\$75,949	4	\$45,710	4	\$176,752	4	\$58,017	3,360	\$574,501	1	\$16,614	2,800	\$180,723	8,400	\$123,220	31	\$24,363	\$1,913,772	\$2,487,904	30%	70%	10,778	7,54	5 70%
7 SZ-0	Silite	SW-3	5 Sankura	S-5	Mazoria (BH)	2,7	730	3,211	1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	360	\$61,554	1	\$8,307	1,200	\$77,453	3,600	\$52,809	9	\$7,258	\$410,255	\$533,332	14%	86%	3,211	2,76	1 86%
8 SZ-0	1 Gurage	SW-0	2 Meskan	S-5	Hamus-Gabeya(Bamo)	BH) 4,1	152	4,884	2	\$50,633	2	\$16,262	2	\$52,079	2	\$29,008	480	\$82,072	1	\$13,845	800	\$51,635	2,400	\$35,206	14	\$11,040	\$512,669	\$666,470	22%	78%	4,884	3,82	5 78%
9 SZ-0	2 Hadiya	SW-0	5 Shashago	S-5	Hirkofofo (BH)	2,5	590	3,047	2	\$50,633	2	\$22,855	2	\$88,376	2	\$29,008	300	\$51,295	1	\$8,307	500	\$32,272	1,500	\$22,004	9	\$6,887	\$467,455	\$607,692	12%	88%	3,047	2,69	4 88%
10 SZ-0	2 Hadiya	SW-0	6 Misrak Badawoo	cho S-5	Weyira Mazoria (BH)	8,3	346	9,817	2	\$50,633	2	\$32,525	2	\$114,889	2	\$29,008	900	\$153,884	2	\$49,842	1,500	\$96,816	4,500	\$66,011	28	\$22,190	\$923,696	\$1,200,805	0%	100%	9,817	9,81	7 100%
11 SZ-0	Wolayita	SW-3	8 Sodo Zuria	S-5	Dalbo <del>Wegene</del> Atowa (SP	4,7	772	5,613	2	\$25,316	2	\$16,262	2	\$52,079	2	\$29,008	900	\$153,884	1	\$13,845	1,500	\$96,816	4,500	\$66,011	16	\$12,688	\$698,863	\$908,522	6%	94%	5,613	5,270	94%
,	SNNPRS Average							6,525	2	\$39,125	2	\$21,324	2	\$74,187	2	\$27,690	1,064	\$181,863	1	\$18,376	1,709	\$110,311	5,127	\$75,212	19	\$14,748	\$844,256	\$1,097,532	19%	81%	6,525	5,148	81%
		s	NNPRS Tota	al		61,0	015 7	1,770	21	\$430,380	21	\$234,567	21	\$816,057	21	\$304,589	11,700	\$2,000,493	13	\$202,136	18,800	\$1,213,423	56,400	\$827,334	205	\$162,229	\$9,286,811	\$12,072,854	-	-	71,770	56,63	-

			(High prio			Town po	pulation	Tub	e well	Pui	mp	G	enerator	Genera	ator House	Convaya	nce pipe line	Water F	Reservoir tank	Transmis	ssion pipe line	Distribu	ution pipe line	Publ	ic faucets	Implementation	Project cost (Incl.	Water coverage (2010)	coverage	Population	Beneficiary population (2015)	Beneficiary ratio (2015)
	* Selected by Water potential, water quality, Water coverage and Beneficial efffect (except population, Existing rights & Disputes and Accesibilityetc.)							Q'ty Cost Q'ty		ty	Cost		Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Q'ty Cost		ā†	Q'ty	Cost	cost	service)	20lpcd	100 Water coverage	2015		
No	Zone		Woreda		Small Town	2010	2015	,	ren75,84/\$	Ye	en75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	1	2	3	4	(5)	6	7
No.	Zone				Smail Town		Persons		\$ nos.		\$	nos.	\$	nos.	\$	m	\$	nos.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③		= <b>4</b> × <b>5</b>	=6÷5
1 OZ-	West Arsi	OW-0	8 Kofele	O-10	Kofele (BH)	14,401	16,939	5	\$94,937	5	\$81,312	5	\$287,222	5	\$72,521	7,500	\$1,282,367	2	\$83,070	5,000	\$322,719	15,000	\$220,036	48	\$38,289	¥3,723,707	¥4,840,820	3	8% 62%	16,939	9 10,502	2 62%
2 OZ-	1 Arsi	OW-0	3 Tiyo	0-11	Kulumsa (nil)	3,472	4,084	1	\$18,987	1	\$6,593	1	\$26,039	1	\$14,504	600	\$102,589	1	\$7,384	2,000	\$129,088	6,000	\$88,014	12	\$9,231	¥603,646	¥784,739	1.	2% 88%	4,084	4 3,594	4 88%
3 OZ-	1 Arsi	OW-0	1 Hitosa	0-12	Boru Jawi (SP)	4,446	5,230	2	\$37,975	2	\$26,014	2	\$68,649	2	\$29,008	1,200	\$205,179	1	\$9,230	2,000	\$129,088	6,000	\$88,014	15	\$11,822	¥907,468	¥1,179,708	3	7% 63%	5,230	0 3,295	63%
4 OZ-	1 Arsi	OW-0	3 Tiyo	O-29	Katar Genet (nil.)	3,953	4,650	1	\$25,316	1	\$11,428	1	\$44,188	1	\$14,504	960	\$164,143	1	\$11,076	3,200	\$206,540	9,600	\$140,823	13	\$10,511	¥942,793	¥1,225,631		0% 100%	4,650	0 4,650	100%
5 OZ-	1 Arsi	OW-2	Limana Bilbilo	O-30	Lemo Sirba (SP)	5,590	6,575	2	\$50,633	2	\$22,855	2	\$88,376	2	\$29,008	1,500	\$256,473	1	\$11,076	2,500	\$161,359	7,500	\$110,018	19	\$14,862	¥1,116,992	¥1,452,089	3	2% 68%	6,575	5 4,471	1 68%
6 OZ-	West Arsi	OW-2	2 Wondo	0-34	Bura (Busa) (BH)	5,112	6,013	2	\$37,975	2	\$13,186	2	\$52,079	2	\$29,008	1,500	\$256,473	1	\$9,230	2,500	\$161,359	7,500	\$110,018	17	\$13,592	¥1,024,380	¥1,331,694		6% 94%	6,013	3 5,660	94%
7 OZ-	West Arsi	OW-0	B Kofele	O-40	Kabate (BH)	4,146	4,877	2	\$37,975	2	\$13,186	2	\$52,079	2	\$29,008	1,080	\$184,661	1	\$13,845	1,800	\$116,179	5,400	\$79,213	14	\$11,024	¥805,753	¥1,047,479		7% 93%	4,877	7 4,524	93%
8 OZ-	West Arsi	OW-1	4 Sheshemane	0-41	Awasho-Dhanku (BH)	7,040	8,281	4	\$75,949	4	\$26,371	4	\$104,157	4	\$58,017	2,880	\$492,429	1	\$19,383	2,400	\$154,905	7,200	\$105,617	24	\$18,718	¥1,583,321	¥2,058,317	0.	0% 100%	8,281	1 8,281	1 100%
9 OZ-	West Arsi	OW-1	4 Sheshemane	0-42	Hursa (BH&SP)	5,700	6,705	4	\$75,949	4	\$26,371	4	\$104,157	4	\$58,017	2,400	\$410,358	1	\$16,614	2,000	\$129,088	6,000	\$88,014	19	\$15,156	¥1,385,586	¥1,801,262	3.	5% 97%	6,705	5 6,470	97%
	Oromia Region Average							3	\$50,633	3	\$25,257	3	\$91,883	3	\$37,066	2,180	\$372,741	1	\$20,101	2,600	\$167,814	7,800	\$114,419	20	\$15,912	\$1,343,739	\$1,746,860	1	5% 85%	7,039	5,716	85%
	Oromia Region Total 53,860 63,								\$455,696	23	\$227,315	23	\$826,946	23	\$333,597	19,620	\$3,354,673	10	\$180,907	23,400	\$1,510,324	70,200	\$1,029,767	181	\$143,205	\$12,093,647	\$15,721,740	-	-	63,354	4 51,448	-

19 \$15,330

\$1,093,997

\$1,422,196

\$27,794,595

6,782

108,079

1 \$19,238 2,155 \$139,063 6,464 \$94,815

23 \$383,043 42,200 \$2,723,747 126,600 \$1,857,100