7. Small Town Water Supply Plan

Data 7.1 Summary of 82 Candidate Small Towns (1/32)

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	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

Data 7.1 Summary of 82 Candidate Small Towns (2/32)

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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	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
S04	4 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.
SO	6 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	7 Lisana	
1.	Town status & population	Town Administrations / 1,711 persons
2.	Water potential (quantity)	Feasible / Good
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Data 7.1 Summary of 82 Candidate Small Towns (3/32)

implementation for new water supply facilities which is not required more advanced technology. The smal town is on the generally flat terrains, construction work is no difficult. 7. Others particulars Town population is less than 2,000 persons in accordance with list of the candidate small towns. 809 Dosha 1. Town status & population Municipal / 1,881 persons 2. Water potential (quantity) & Water quality 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 difficult. 7. Others particulars Town population is less than 2,000 persons in accordance with list of the candidate small towns. 8.11 Fonko 1. Town status & population Town Administrations / 2,380 persons 2. Water potential (quantity) & Water quality		& Water quality	
5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars 7. Others particulars 7. Town population 8. Water coverage(20lpcd) 9. Existing rights& Disputes 10. Technical specifications& implementation for new water supply facilities 11. Town status & population 12. Water potential (quantity) 13. Water coverage(20lpcd) 14. Accessibility 15. Existing rights& Disputes 16. Technical specifications& implementation for new water supply facilities 17. Others particulars 18. Town population is less than 2,000 persons in accordance with list of the candidate small towns. 19. Water coverage(20lpcd) 10% 10% 10% 10% 10% 10% 10% 10	3.	Water coverage(20lpcd)	200% (water consumption)
6. Technical specifications& implementation for new water supply facilities 7. Others particulars 7. Others particulars 7. Others particulars 7. Others particulars 7. Others population 8. Water potential (quantity) with list of the candidate small towns. 8. Water quality 8. Water coverage(20lpcd) 9. Existing rights& Disputes 10. Others particulars 11. Town status & population 12. Water potential (quantity) with list of the candidate small towns. 13. Water coverage(20lpcd) 14. Accessibility 15. Existing rights& Disputes 16. Technical specifications& implementation for new water supply facilities 17. Others particulars 18. Town population is less than 2,000 persons in accordance with list of the candidate small towns. 18. Town population is less than 2,000 persons in accordance with list of the candidate small towns. 19. Water potential (quantity) with list of the candidate small towns. 10. Town status & population 11. Town status & population 12. Water potential (quantity) with list of the candidate small towns. 13. Water coverage(20lpcd) 14. Accessibility 15. Existing rights& Disputes 16. Technical specifications& implementation for new water supply facilities 18. Water coverage(20lpcd) 19. Water coverage(20lpcd) 19. Water coverage(20lpcd) 19. Water coverage(20lpcd) 19. Water coverage(20lpcd) 10. Town Administrations/2,380 persons 11. Fonko 12. Water potential (quantity) with list of the candidate small towns. 19. Water coverage(20lpcd) 19. Water coverage(20lpcd) 10. Water coverage(20lpcd) 11. Town be designed in an Ethiopian standard which is not required more advanced technology. The small town is on the gentle hills, construction work is not difficult. 17. Others particulars	4.	Accessibility	Paved + Base-course + Sub-grade, 22 km from Bitajira
implementation for new water supply facilities whichis not required more advanced technology. The smal town is on the generally flat terrains, construction work is no difficult. 7. Others particulars Town population is less than 2,000 persons in accordance with list of the candidate small towns. 809 Dosha 1. Town status & population Municipal / 1,881 persons 810 Paved + Base-course + Sub-grade, 28 km from Hosaina 811 Technical specifications& implementation for new water supply facilities with list of the candidate small towns. 811 Fonko 1. Town status & population 812 Water potential (quantity) 83 Water coverage(20lpcd) 84 Accessibility Paved + Base-course + Sub-grade, 28 km from Hosaina 85 Existing rights& Disputes Unidentified of both. 86 Technical specifications& implementation for new water supply facilities 87 Others particulars Town population is less than 2,000 persons in accordance with list of the candidate small towns. 88 Feasible / Good 88 Water potential (quantity) 89 Water potential (quantity) 80 Water potential (quantity) 80 Water coverage(20lpcd) 10% 10% 10% 10% 10% 10% 10% 10	5.	Existing rights& Disputes	Unidentified of both.
with list of the candidate small towns. So9 Dosha 1. Town status & population Municipal / 1,881 persons 2. Water potential (quantity) 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 Town population is less than 2,000 persons in accordance with list of the candidate small towns. Solution Town status & population Town Administrations / 2,380 persons 2. Water potential (quantity) Feasible / Good 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 smal town is on the gentle hills, construction work is not difficult. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult.	6.	implementation for new water	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.
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 7. Town status & population 7. Town status & population 8. Town status & population 9. Town Administrations/2,380 persons 1. Town status & population 2. Water potential (quantity) & Feasible / Good 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. Town status & population 9. Town Administrations/2,380 persons 10. Town Administrations/2,380 persons 11. Town status & population 12. Water potential (quantity) & Feasible / Good 13. Water coverage(20lpcd) 13. Water consumption) 14. Accessibility 15. Existing rights Disputes 16. Technical specifications & Unidentified of both. 17. Technical specifications & Implementation for new water supply facilities 18. Town status & population of new water supply facilities on the gentle hills, 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.
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 1. Town status & population 1. Town status & population 2. Water potential (quantity) & Feasible / Good 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 1. Town status & population 2. Water potential (quantity) & Feasible / Good 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 1. Town Hosaina 2. Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 1. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The small towns. 1. Town status & population 2. Water potential (quantity) & Feasible / Good 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 1. 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	S09	Dosha	
& Water quality 3. Water coverage(20lpcd) 4. Accessibility 5. Existing rights& Disputes 6. Technical specifications& implementation for new water supply facilities 7. Others particulars 8. Town population is less than 2,000 persons in accordance with list of the candidate small towns. 8. Water potential (quantity) & Water quality 9. Water potential (quantity) & Water quality 10. Town Administrations / 2,380 persons 11. Town status & population 12. Water potential (quantity) & Water quality 13. Water coverage(20lpcd) 14. Accessibility 15. Existing rights& Disputes 16. Technical specifications& implementation for new water supply facilities 17. Others particulars 18. Water quality 19. Water coverage(20lpcd) 19. Water coverage(20lpcd) 10. Town Administrations / 2,380 persons 10. Town Administrations / 2,380 persons 11. Town Administrations / 2,380 persons 12. Water potential (quantity) & Water quality 13. Water coverage(20lpcd) 14. Accessibility 15. Disputes 16. Technical specifications& implementation for new water supply facilities 17. Others particulars	1.	Town status & population	Municipal / 1,881 persons
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 7. Others particulars 8. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the generally flat terrains, construction work is no difficult. 7. Others particulars 8. Town population is less than 2,000 persons in accordance with list of the candidate small towns. 8. Town status & population 9. Water potential (quantity) & Water quality 10. Water coverage(20lpcd) 11. Accessibility 12. Accessibility 13. Water coverage(20lpcd) 13. Water coverage(20lpcd) 13. Water coverage(20lpcd) 13. Unidentified of both. 14. Accessibility 15. Existing rights& Disputes 16. Technical specifications& implementation for new water supply facilities 17. Others particulars 18. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 17. Others particulars	2.		Feasible / Good
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 smal town is on the generally flat terrains, construction work is no 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) Feasible / Good & Water quality 3. Water coverage(20lpcd) 139% (water consumption) 4. Accessibility All paved, 28 km from Hosaina 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 7. Others particulars	3.	Water coverage(20lpcd)	10%
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 smal town is on the generally flat terrains, construction work is no 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 Feasible / Good Water potential (quantity) & Water coverage(20lpcd) Accessibility All paved, 28 km from Hosaina 5. Existing rights& Disputes Unidentified of both. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 7. Others particulars	4.	Accessibility	Paved + Base-course + Sub-grade, 28 km from Hosaina
implementation for new water supply facilities whichis not required more advanced technology. The smal town is on the generally flat terrains, construction work is no 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 3. Water coverage(20lpcd) 4. Accessibility All paved, 28 km from Hosaina 5. Existing rights Disputes Unidentified of both. Technical specifications implementation for new water supply facilities The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 7. Others particulars	5.	Existing rights& Disputes	Unidentified of both.
with list of the candidate small towns. S11 Fonko 1. Town status & population	6.	implementation for new water	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.
1. Town status & population 2. Water potential (quantity)	7.	Others particulars	Town population is less than 2,000 persons in accordance with list of the candidate small towns.
 Water potential (quantity) & Water quality Water coverage(20lpcd) Accessibility All paved, 28 km from Hosaina Existing rights& Disputes Technical specifications& implementation for new water supply facilities Others particulars Teasible / Good Water consumption All paved, 28 km from Hosaina Unidentified of both. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. Others particulars	S11	Fonko	
 & Water quality Water coverage(20lpcd) 139% (water consumption) Accessibility All paved, 28 km from Hosaina Existing rights& Disputes Unidentified of both. Technical specifications& implementation for new water supply facilities The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. Others particulars 	1.	Town status & population	Town Administrations / 2,380 persons
 Accessibility All paved, 28 km from Hosaina Existing rights& Disputes Unidentified of both. Technical specifications& implementation for new water supply facilities Others particulars All paved, 28 km from Hosaina Unidentified of both. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult.	2.		Feasible / Good
 5. Existing rights& Disputes Unidentified of both. 6. Technical specifications& implementation for new water supply facilities 7. Others particulars Unidentified of both. The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 	3.	Water coverage(20lpcd)	139% (water consumption)
6. Technical specifications& The facility can be designed in an Ethiopian standard whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 7. Others particulars	4.	Accessibility	All paved, 28 km from Hosaina
implementation for new water supply facilities whichis not required more advanced technology. The smal town is on the gentle hills, construction work is not difficult. 7. Others particulars	5.	Existing rights& Disputes	Unidentified of both.
	6.	implementation for new water	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.
S12 Wada	7.	Others particulars	
	S12	<u> </u>	

Data 7.1 Summary of 82 Candidate Small Towns (4/32)

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

Data 7.1 Summary of 82 Candidate Small Towns (5/32)

	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	5 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	6 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	7 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)

Data 7.1 Summary of 82 Candidate Small Towns (6/32)

4.	Accessibility	David - Pasa gayrea - Sub grada 20 km from Ayyasa
4.	Accessionity	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	
1.	Town status & population	Town Administrations / 4,017 persons

Data 7.1 Summary of 82 Candidate Small Towns (7/32)

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.
6.	Technical specifications& implementation for new water	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small

Data 7.1 Summary of 82 Candidate Small Towns (8/32)

facility ha operating o	of above water coverage is consideredlow. This is 3 wells which are under operation and in good order.
S23 Chuko	
1. Town status & population Municipal	/14,626 persons
2. Water potential (quantity) Low / Good & Water quality	od
3. Water coverage(20lpcd) 58% (wa	ter consumption)
4. Accessibility Paved + B	ase-course + Sub-grade, 24 km from Awasa
5. Existing rights& Disputes This small	town has been sporadic conflicts with residents.
implementation for new water supply facilities some risk developme	ity can be designed in an Ethiopian standard, or required more advanced technology. There are s of troubles, conflicts with neighborhoods for ent of water sources. The small town is on the flat terrains, construction work is not difficult.
	ulation is more than 14,000 persons in accordance f the candidate small towns.
S24 Ela	
1. Town status & population Municipal	/5,259 persons
2. Water potential (quantity) Feasible / Water quality	Unfeasible (Fluoride)
3. Water coverage(20lpcd) 194% (w	rater consumption)
4. Accessibility Paved + B	ase-course + Sub-grade, 22 km from Awasa
5. Existing rights& Disputes This small	town has been sporadic conflicts with residents.
implementation for new water supply facilities some risk developme generally	ity can be designed in an Ethiopian standard, or required more advanced technology. There are is of troubles, conflicts with neighborhoods for ent of water sources. The small town is on the flat terrains, however, construction works is ome ingenuities.
intake faci than half discharged water is en	ng water source (spring) has been convayed by dity and conveyance pipes which is consumed less of full amount of spring and rest of spring is d into the stream. Hence, the capacity of spring mough for expansion. This small town is a priority ity for public safety.
S27 Fisha Genet	

Data 7.1 Summary of 82 Candidate Small Towns (9/32)

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)	i
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.
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

Data 7.1 Summary of 82 Candidate Small Towns (10/32)

		difficult.
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.
S32	Dimtu	
1.	Town status & population	Town Administrations / 1,702 persons
2.	Water potential (quantity) & Water quality	Feasible / Unfeasible (Fluoride)
3.	Water coverage(20lpcd)	51%
4.	Accessibility	Paved + Base-course + Sub-grade, 42 km from Sodo
5.	Existing rights& Disputes	This small town has been sporadic conflicts of the existing water right with residents.
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.
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.
S34	Birbir	
1.	Town status & population	Woreda Capital / 5,831 persons
2.	Water potential (quantity) & Water quality	Low / Good
3.	Water coverage(20lpcd)	229% (water consumption)
4.	Accessibility	Paved + Base-course + Sub-grade, 48 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 flat terrains, construction work is not difficult.
7.	Others particulars	The new well (2 nd .) which was constructed by NGO on 2005 has not yet used for water supply.
S35	Chenicha	
1.	Town status & population	Woreda Capital / 10,223 persons
2.	Water potential (quantity)	Low / Good

Data 7.1 Summary of 82 Candidate Small Towns (11/32)

	& Water quality	
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 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.

Data 7.1 Summary of 82 Candidate Small Towns (12/32)

S38	S38 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.	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)	
4.	Accessibility	Paved + Base-course + Sub-grade, 65 km from Arba Minch	
5.	Existing rights& Disputes	Unidentified of both.	
		:	

Data 7.1 Summary of 82 Candidate Small Towns (13/32)

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	Alkeso	· F
1.	Town status & population	Town Administrations / 1,028 persons
2.	Water potential (quantity) & Water quality	Feasible / Good

Data 7.1 Summary of 82 Candidate Small Towns (14/32)

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	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.
S46	Tora	
1.	Town status & population	Woreda Capital / 9,163 persons
2.	Water potential (quantity) & Water quality	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	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 watersupply facility has been relatively good managed by the Water office and this office collects water fee for public faucets and private water connections. However, acknowredgement of the specifications of the facility of the staff is low.
S47	Mito	
1.	Town status & population	Municipal / 3,277 persons
2.	Water potential (quantity) & Water quality	Feasible / Good
3.	Water coverage(20lpcd)	310% (water consumption)
4.	Accessibility	Paved + Sub-grade + Dry-season-only, 68 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. The small town is on the generally flat terrains, however, construction works is required some ingenuities arround water sources.

Data 7.1 Summary of 82 Candidate Small Towns (15/32)

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	5
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
2.	Water potential (quantity) & Water quality	High / Good
3.	Water coverage(20lpcd)	14% (water consumption)

Data 7.1 Summary of 82 Candidate Small Towns (16/32)

 Accessibility Paved + Base-course + Sub-gra Existing rights& Disputes Unidentified of both. Technical specifications& implementation for new water supply facilities works is required more advitown is on the generally flat to works is required some ingenui Others particulars Wilbareg Town status & population Woreda Capital / 2,197 person 	d in an Ethiopian standard, vanced technology. The small errains, however, construction ities arround water sources.
6. Technical specifications& implementation for new water supply facilities 7. Others particulars The facility can be designed whichis not required more advitown is on the generally flat to works is required some ingenuity. The facility can be designed whichis not required more advitown is on the generally flat to works is required some ingenuity.	vanced technology. The small errains, however, construction ities arround water sources.
implementation for new water supply facilities whichis not required more advitown is on the generally flat to works is required some ingenuity. 7. Others particulars S52 Wilbareg	vanced technology. The small errains, however, construction ities arround water sources.
S52 Wilbareg	
5	
1. Town status & population Woreda Capital \(\sqrt{2,197 person} \)	
	as .
2. Water potential (quantity) Feasible / Good & Water quality	
3. Water coverage(20lpcd) 78% (water consumption)	
4. Accessibility All paved, 53 km from Hosaina	a
5. Existing rights& Disputes Unidentified of both.	
6. Technical specifications& implementation for new water supply facilities The facility can be designed whichis not required more advitown is on the hills, constructing ingenuities.	vanced technology. The small
7. Others particulars	
S53 Hamus Gabeya	
1. Town status & population Kebele Association / 4,152 p	persons
2. Water potential (quantity) Feasible / Good & Water quality	
3. Water coverage(20lpcd) 22%	
4. Accessibility Paved + Base-course + Sub-gra	ade, 18 km from Bitajira
5. Existing rights& Disputes Unidentified of both.	
6. Technical specifications& The facility can be designed which is not required more adviced town is on the generally flat ter difficult.	vanced technology. The small
7. Others particulars	
S54 Hirokofofo	
1. Town status & population Town Administrations / 2,590	persons
2. Water potential (quantity) Feasible	

Data 7.1 Summary of 82 Candidate Small Towns (17/32)

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.
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 1991. This facility has 1 spring as water source

Data 7.1 Summary of 82 Candidate Small Towns (18/32)

	which is not staible by seasonal water product. Hence, this			
		facility can not supply enough amount of water.		
S57	S57 Chrso Mazoria			
1.	Town status & population	Municipal / 8,500 persons		
	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.		
	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		
	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.		
	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 (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			
	Town status & population	Town Administrations / 4,007 persons		

Data 7.1 Summary of 82 Candidate Small Towns (19/32)

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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)
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	The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small

Data 7.1 Summary of 82 Candidate Small Towns (20/32)

	supply facilities	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	i
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.

Data 7.1 Summary of 82 Candidate Small Towns (21/32)

2 Oromia region 30 towns (listed by ID number)

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	

Data 7.1 Summary of 82 Candidate Small Towns (22/32)

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.
O06	5 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

Data 7.1 Summary of 82 Candidate Small Towns (23/32)

		the new facility is high.	
007	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.	
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.	

Data 7.1 Summary of 82 Candidate Small Towns (24/32)

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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, 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.
01	1 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	2 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	0 Abosa	
1.	Town status & population	Town Administration / 3,578 persons
2.	Water potential (quantity)	Low / Unfeasible (Fluoride)

Data 7.1 Summary of 82 Candidate Small Towns (25/32)

	& 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	2 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	8 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	

Data 7.1 Summary of 82 Candidate Small Towns (26/32)

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
5.	Existing rights& Disputes	Unidentified of both.

Data 7.1 Summary of 82 Candidate Small Towns (27/32)

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.
O3	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	
О3	3 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.
O3-	4 Bura	•
1.	Town status & population	Town Administrations / 5,112 persons
2.	Water potential (quantity) & Water quality	Feasible / Permissible
3.	Water coverage(20lpcd)	6%

Data 7.1 Summary of 82 Candidate Small Towns (28/32)

4.	Accessibility	Paved + Base-course + Sub-grade, 20 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 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	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.
036	. Walanciti	:
1.	Town status & population	Municipal / 11,260 persons
2.	Water potential (quantity) & Water quality	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 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.
O37	Doni	

Data 7.1 Summary of 82 Candidate Small Towns (29/32)

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	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 generally gentle hills, construction work is not difficult.

Data 7.1 Summary of 82 Candidate Small Towns (30/32)

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	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)
4.	Accessibility	All paved, 13 km from Sheshemane

Data 7.1 Summary of 82 Candidate Small Towns (31/32)

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	3 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
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.
O45	5 Adulala	

Data 7.1 Summary of 82 Candidate Small Towns (32/32)

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.

Data 7.2 Small Town Profile of Oromia Region

O-01 Iteya

Oromia Region		ltava		1 /:	
Name of small town	:	Iteya		0- 0	
Name of Woreda		Hitosa		OW- 0	
Name of Zone	:	Arsi		OZ- 0	1
	Profile items			Profile	
Population					
Town	male / female / total	by OWRB	7,043	7,196	14,239
Woreda	male / female / total	by Census 2007	62,445	61,734	124,179
percentage of Town in Wor					11.5%
Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	525789	898989	2,159
Town Status			Municipally		
Water Source			G : (171	C TD)	
04-01 Water source 04-02 Well spec.		Type, No.	Spring (17km	from Town)	
04-02 Well spec. 04-03 Method of water draw		Depth., Casing Dia., S.W.L, Yield Pump, Gravity	Gravity		
04-04 Pump Spec.		Type, Yield	nil.		
04-05 Power source for motorized	d numn	Type, Kva	nil.		
04-06 Durartion of water draw (O		daily hours, time	24hrs.		
04-07 Water quality	peration nours)	Iron, Fluorideetc.	good		
04-08 Other technical specimen		non, radriceetc.	g00 u		
o i do diadi tedimida specimen					
Existing Water Supply Facilities					
05-01 Established year		(Gregorian calendar)	1987		
05-02 Financial of implementation	n	Donor's name	Water Aid		
05-03 Name of implementation (I	Project name)		Hitosa Iteya wa	ter project	
05-04 Intake Type			Spring		
05-05 Intake No.			1no.		
05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	Not grasped		
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.		no.	18nos.		
05-12 Water reserver Capacity		m3	100m3*1no., 50	m3*1no., 25	m3*17nos.
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	Not grasped		
05-16 Power to distribute	: (De-blie Ferrer DE)	Pressure, Gravity	Gravity		
05-17 Structure Type of water point (Pul 05-18 Number of water point (Pul	Int (Public Faucet, PF)	RC, Masonry, Pipeetc.	Mansonry 15		
05-19 Number of faucet at a water		no.	6		
05-20 Average of daily water con			Not grasped		
05-20 Average of daily water com		(F1') 1113/day	2,000		
05-22 Average of daily water consur		HC) m3/day	Not grasped		
05-23 Number of Business Conec		110) III3/day	Not grasped		
05-24 Type of Business Connection		chool, Gov. office, Hospitaletc			
05-25 Average of daily water consum			Not grasped		
05-26 Other technical specimen	1				
*					
Operation and Maintenace					
06-01 Organization's name			Town water sup	ply service	
06-02 Type of organization		Regional, Zone, Enterpriceetc			
06-03 Number of thechnical staff					
06-04 Principal works of technica					
06-05 Number of the financial sta					
06-06 Principal works of financia	l staff		14 100 1	zed	T
06-06 Principal works of financia 06-07 Categories of water tariff	l staff	W.Point, House Connectionetc	4 tariff categori		
06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate					
06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet)		Birr/L, 20L	0.15birr/20L		
06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection		Birr/L, 20L Birr/m3	0.15birr/20L 3.25~4.00birr/n		
06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) House connection Business connection		Birr/L, 20L Birr/m3 Birr/m3	0.15birr/20L		
06-06 Principal works of financia 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	y water tariff	Birr/L, 20L Birr/m3 Birr/m3 Birr/month	0.15birr/20L 3.25~4.00birr/n		
06-06 Principal works of financia 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	y water tariff	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Fown, Zonal Cap. Reg. Capetc.	0.15birr/20L 3.25~4.00birr/n ditto		
06-06 Principal works of financia 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	y water tariff at T	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc	0.15birr/20L 3.25~4.00birr/n ditto		
06-06 Principal works of financia 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 06-12 Method in case of serious r	ny water tariff at T repair by Regio	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Fown, Zonal Cap. Reg. Capetc.	0.15birr/20L 3.25~4.00birr/n ditto		
06-06 Principal works of financia 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	y water tariff at T epair by Region by Segion by Segion by Region	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc	0.15birr/20L 3.25~4.00birr/n ditto		

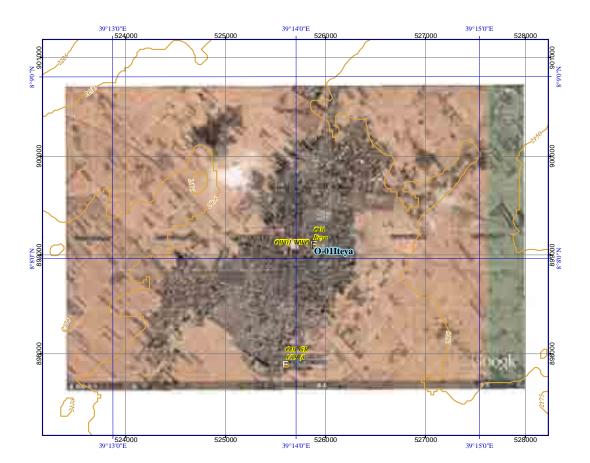
Data 7.2 Small Town Profile of Oromia Region

O-01 Iteya

O7-D Problem of actual town water supply O7-D Technical Water source Water supply facility Decrepit, leakage, design failureetc O7-O2 Finalcial Management	Water source Quantity, Qualityetc Water supply facility Decrepit, leakage, design failureetc O'-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shourtage of budget to execute operation & maintenace O'-03 Other incidential, Special specimen O'-03 Other incidential, Special specimen O'-03 Other incidential, Special specimen O'-04 Other incidential, Special specimen O'-04 Other specimen O'-05 O
Water source Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial Management Rate of water tarrif collection 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 57-04 Other specimen 8 Geographical condition Town is on the flat area. 9 Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) (by data of water source product) (1(4.4L)*3600min*24hrsp=1244160L 1244160L/20L=62208 62208/14239=437% 11 Water Potential (A / B / C / D / E) A=Road Width 5-6m /B= 33-6m / C= 1-3m / D= 21m 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 Derec 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.	Water supply facility Decrepit, leakage, design failureete Water supply facility Decrepit, leakage, design failureete O7-02 Finalcial
Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial Management Rate of water tarrif collection 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 O7-04 Other specimen 88 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area. 99 Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) (by data of water source product)) (114.4L)*3600min*24hrsp=1244160L 1244160L/20L=62208 62208/14239=437% 11 Water Potential (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 > 6 m/B > 3-6 m/C = 1-3 m/D = < lm 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 Dereo 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.	Water supply facility 07-02 Finalcial Management Rate of water tarrif collection 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 Change in industry increase factory, Tradingetc O7-04 Other specimen O8 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on the flat area. O9 Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7" Ourrent Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product)) (Current Water Coverage (%) (by data of water source product) (Current Water Coverage (%) (by data of water source product) (Current Water Coverage (%) (by data of water source product) (Current Water Coverage (%) (by dat
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Data 7.2 Small Town Profile of Oromia Region

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	!
01	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	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	3.9% 501151 888795 1,707	
	Town Status	Lasting / Norting / Art.	Town Administration	
_	Water Source			
	04-01 Water source	Type, No.	Well*1no., Shallow well*2 with HP	
	04-02 Well spec.	Depth., Casing Dia., S.W.L, Yield		
	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	Morotized pump / Hand pump Commercial Elec. , standby generator	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	Not grasped	
	04-07 Water quality	Iron, Fluorideetc.	EC1,410 other item are good	
	04-08 Other technical specimen			*******
L				
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1998	
	05-02 Financial of implementation	Donor's name	OSHO	ļ
	05-03 Name of implementation (Project name) 05-04 Intake Type		Ogolcha water project Well	
	05-05 Intake No.		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	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	ļ
	05-11 Water reserver No.	no.	GR*1no.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	m3 Pipe material, length	GR50m3*1no.	
	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)	no.	7	
	05-19 Number of faucet at a water point (Public Faucet, PF		6	
	05-20 Average of daily water consumption at a water point 05-21 Number of House Connection (HC)	(PF) m3/day	2.3m3/day 301	ļ
	05-22 Average of daily water consumption of House Connection	(HC) m3/day	0.32m3/day	
	05-23 Number of Business Conection (BC)	ms/day	22	
	` /	School, Gov. office, Hospitaletc.	Not grasped	
	05-25 Average of daily water consumption of Business Connection	(BC) m3/day	0.48m3/day	
	05-26 Other technical specimen			
06	Operation and Maintenace 06-01 Organization's name		Town waster supply service	
	06-02 Type of organization	Regional, Zone, Enterpriceetc.	Town warter supply servise Community based organization	
	06-03 Number of thechnical staff	Regional, Zone, Enterpriceetc	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	ļ
	06-07 Categories of water tariff	W.Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate			ļ
	Water point (Public faucet)	Birr/L, 20L	0.2birr/20L	ļ
	House connection Business connection	Birr/m3	3.5birr/m3	
	06-09 Average monthly income by water tariff	Birr/m3 Birr/month	Not grasped 7,100birr/month	
	06-10 Procurement of spare parts at 7	Town, Zonal Cap. Reg. Capetc.		ļ
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc	Water meter, pipefittings	
		ional office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Pumpmotor burned	
		Organization, Gov., Donorsetc.	Region	
	06-15 Other technical specimen			ļ
				1

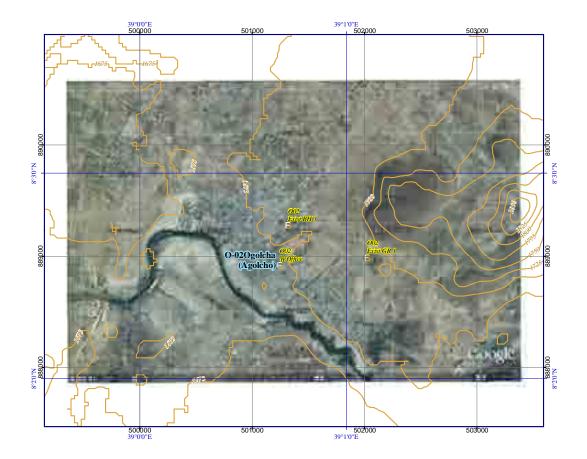
O-02 Ogolcha

Data 7.2 Small Town Profile of Oromia Region

07				
	Problem of actual town water supply			
	07-01 Technical	O	Water	togo
	Water source	Quantity, Qualityetc.	Water shorg	
	Water supply facility	Decrepit, leakage, design failureet	c.Pipe line net	work, Skilled manpower
	07-02 Finalcial			
	Management		Not skilled p	personnel
	Rate of water tarrif collection		nil.	
	Personnel expenses		nil.	
	Shourtage of budget to execute operat	tion & maintenace	Shortage bud	dget for O&M
	07-03 Other incidential, Special specimen			
	Increase in population to consume wa	ater coming from other towns, villageset	c Coming fron	n villagers
	Change in industry	increase factory, Tradingetc	c nil.	
	Human conflict	Ethnic, Administrativeet		
	07-04 Other specimen	Dunie, raministrativeea		
	07-04 Olici specificii			
10	Geographical condition (Slope on	n mountaion, bottom of valley, Top of ridgeetc.	. \	
,0	Town is on the flat area.	i mountaion, bottom of variey, 1 op of flugeetc.	•)	
	Town is on the flat area.			
00	N I CO C C TO MA C I			
19	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
				T
10	Current Water Coverage (%) (by water con-			129%
		C)=123m3/day 123m3/20Lpcd.= 6,150persons 6,	,150persons / 4	·
	Current Water Coverage (%) (by data of wa	ater source product))		%
11	Water Potential (A / B / C / D / E)			C
				•
12	Accessibility (A / B / C / D / E) A=Asphal	ult/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	ot Approached	B / B
	<u> </u>	d Width $> 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$		
	Access road is Asphalt & Base course 45km			
13	Manpower Capability of Water Supply Man			9
J	manpower Capability of Water Supply Wall	agement by water office point)		<u> </u>
	<u></u>			
	D C (A/D/C/D/F)			I
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
6	generally flat terrains, construction work is r Other Donors, NGO's			
	OSHO			
			Cumono Ono	
17	Main Ethnic Group		Gurage, Oro	mo
			Gurage, Oro	mo
	Health conditions			
	Health conditions -1 Medical facilities in Town			mo er, Private clinic, Drug sto
	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	km	Health Cente	er, Private clinic, Drug sto
	Health conditions -1 Medical facilities in Town	km persons / year	Health Cente	er, Private clinic, Drug sto
	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Health Cente	er, Private clinic, Drug sto
	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Health Center 50 Typhoid	er, Private clinic, Drug stor
	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Health Cente 50 Typhoid Malaria	er, Private clinic, Drug stor 1,000 3,000
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Health Center 50 Typhoid Malaria Dysentery others	1,000 3,000 150 150
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases		Health Cente 50 Typhoid Malaria Dysentery	1,000 3,000 150 150
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities		Health Center 50 Typhoid Malaria Dysentery others	1,000 3,000 150 150
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases		Health Center 50 Typhoid Malaria Dysentery others	1,000 3,000 150 150
18	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities		Health Center 50 Typhoid Malaria Dysentery others	1,000 3,000 150 150
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119	Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases Main economic activities		Health Center 50 Typhoid Malaria Dysentery others	1,000 3,000 150 150
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:	persons / year	Health Center 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
.9	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 Mr. Negash Gemechu Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18 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: Remarks:	persons / year	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18 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 Mr. Negash Gemechu Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18	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:	persons / year Mr. Negash Gemechu Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18 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: Remarks:	persons / year Mr. Negash Gemechu Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
.8	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:	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
.8	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
.8	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: 0 (Town sketchetc.):	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
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18 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: Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,000m PVC 1"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
119 220	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
119 220	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
18	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
119 220	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving
.8	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"=	Mr. Negash Gemechu Water Mr. Mohammed Sado Water	Health Cente 50 Typhoid Malaria Dysentery others Farming, Tra	1,000 3,000 150 150 ade, Waving

Data 7.2 Small Town Profile of Oromia Region

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 percentage of Town in Woreda	by Census 2007	43,443 43,284 86,727 5.0%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	520879 888380 2,258	
-	Town Status	Easting / Norting / Tit.	Town administration	
04	Water Source			
	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 04-04 Pump Spec.	Pump, Gravity Type, Yield	Gravity nil.	
	04-04 Pump Spec. 04-05 Power source for motorized 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 specimen			
ე5	Existing Water Supply Facilities	(0 : 1 1)	1000 (N) 1) / 1000 (N) 2)	
	05-01 Established year	(Gregorian calendar)	1998 (Phase-1) / 1999 (Phase-2)	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	Water Aid Gonde Iteya water supply project	
	05-04 Intake Type		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. 05-12 Water reserver Capacity	no. m3	GR*15nos. GR50m3*2nos., 25m3*13nos.	
	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	94km (Incl. rural area)	
	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)	no.	5 (Gonde+Iteya=94) 5	
	05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF)	no.) m3/day	2.23m3/day	
	05-21 Number of House Connection (HC)) 1113/day	201 (Gonde+Iteya=724)	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	1.66m3/day	
	05-23 Number of Business Conection (BC)		6	
	05-25 Average of daily water consumption of Business Connection (BC) m3/day	0.68m3/day (3.3~0.1m3/day)	
	05-26 Other technical specimen			
16	Operation and Maintenace			
υŪ	06-01 Organization's name		Town warter supply enterprise	
	<u> </u>	egional, Zone, Enterpriceetc		
	06-03 Number of thechnical staff	<u></u>	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	
	<u> </u>	Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate Water point (Public forest)	Pier/I 20I	3birr/m3 (Contract system)	!
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	See below memo	- !
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	63,000birr/month	
		n, Zonal Cap. Reg. Capetc.	Addis Ababa	
	06-11 Principal spare parts O		Water meter, Pipes&fittings, Vehicle p	
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Broken pipe anchor (Thrust block)	
		ganization, Gov., Donorsetc.	Enterprise	
	06-15 Other technical specimen			
			i l	

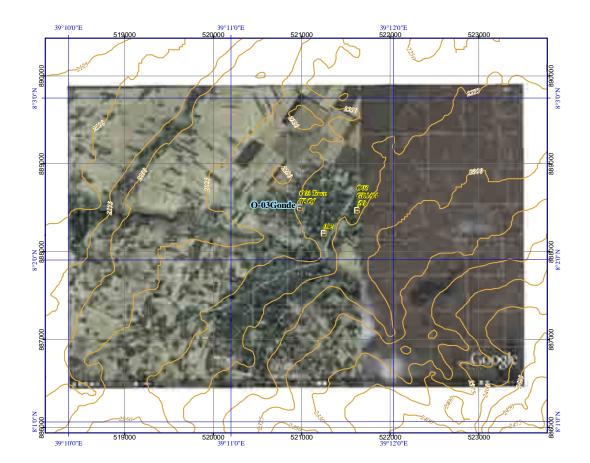
O-03 Gonde

Data 7.2 Small Town Profile of Oromia Region

Problem of actual town water supply 07-01 Technical Water source Ouantity, Ouality ...etc. Shortage water Water supply facility .etc Design fairure, expansion pipe lines Decrepit, leakage, design failure ... 07-02 Finalcial Management Not specified Rate of water tarrif collection Not specified Not specified Personnel expenses Shourtage of budget to execute operation & maintenace Not specified 07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villages ...etc Increase population Change in industry increase factory, Trading ...etc.nil. Human conflict Ethnic, Administrative ...etc nil. 07-04 Other specimen 08 Geographical condition (Slope on mountaion, bottom of valley, Top of ridge ...etc.) Town is on the foot of mountain & flat area. 09 Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7 10 Current Water Coverage (%) (by water consumption at faucets) ! (2.23m3*5PF+1.66m3*201HC+0.68*6BC)=348.9m3/day 348.9m3/20Lpcd.=17,444 persons 17,445persons/4,350 population=17,445persons/4,350 population=17,445 persons/4,350 population=17,445 persons/Current Water Coverage (%) (by data of water source product)) 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 $A=Road Width > 6m /B= >3\sim6m / C= 1\sim3m / D= <1m$ Access road is Asphalt 12km from Asela. * Refer to Chapter 5 "Table 5-7: Categories of accessibility 23 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 Water Aid 17 Main Ethnic Group Amhara, Oromo 18 Health conditions -1 Medical facilities in Town Government clinic, Private clinic, Drug store Nearest other facilities from Town km 11 -3 Main patients of water born diseases persons / year Typhoid 1 000 Dysentery 250 850 others 19 Main economic activities Trade, Farming, Waving 20 Particular comments: Pipe line network (Pipe material DIP, SGP, PVC, PE) Hitosa Water Borad has Award from Oromia Water Bureau on 2002 for efficiency management. ! 21 Remarks 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. Mr. Abe Wabe (Chairman of Water Board) 0920-029-948 Mr. Wodo Khadir (Town water head) 0912-0643-354 Memo (Town sketch ...etc.): 04-02 Well spec. Spring No.1 10L/sec. Spring No.3 ??L/sec. 9L/sec. Spring No.4 ??L/sec. Spring No.2 06-08 Water tariff rate (Buisiness Connection) Water Meter Lease deposit 0~5 m3 =3.25birr/m3 ND-1/2"=5.0birr/month 75.0birr/deposit 5~10 m3 =3.50birr/m3 ND-3/4"=8.0birr/month 100.0birr/deposit 10~20 m3 =3.75birr/m3 ND-1"=10.0birr/month 125.0birr/deposit 20~ m3 =4.00birr/m3 ND-1*1/2"=20.0birr/month 200.0birr/deposit ND-2"=30.0birr/month 250.0birr/deposit

Data 7.2 Small Town Profile of Oromia Region

O-03 Gonde



O-05 Kidame Digelu

Data 7.2 Small Town Profile of Oromia Region

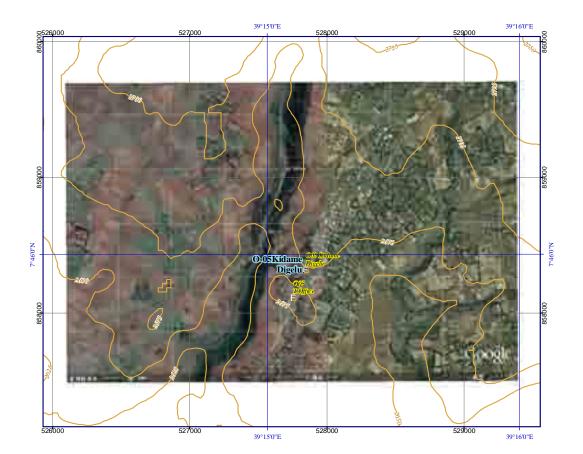
	Oromia Region		4 /30	
	Name of small town :	Kidame Dige	lu O- 05	
	Name of Woreda :	Digaluna Tij		
•••••	Name of Zone :	Arsi	OZ- 01	
	Profile items		Profile	
01	Population			
	Town male / female / total Woreda male / female / total	by OWRB by Census 2007	809 971 69,471 70,942 1	1,780 40,413
	percentage of Town in Woreda	by Celisus 2007	09,471 70,942 1	1.3%
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	527753 858194	2,677
	Town Status		Town administration	
04	Water Source			
	04-01 Water source 04-02 Well spec. Dep	Type, No. oth., Casing Dia., S.W.L, Yield	Spring * 1no. (3km from Town))
	04-02 Well spec. Dep 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	24hrs.	
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen	***************************************	***************************************	
05	Existing Water Supply Facilities			
-	05-01 Established year	(Gregorian calendar)	2007	
	05-02 Financial of implementation	Donor's name	World Vision	
	05-03 Name of implementation (Project name)		Kidame Digelu water project	
	05-04 Intake Type 05-05 Intake No.		Spring 1no.	
	05-05 Intake No. 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.	
	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. ~ Reservoir)	m3 Pipe material, length	100m3 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)	no.	8	
	05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF)	no.) m3/day	5FC*6PF, 2FC*2PF 4.0m3/day	
	05-20 Average of daily water consumption at a water point (FF 05-21 Number of House Connection (HC)) 1113/uay	119	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	1.3m3/day	
	05-23 Number of Business Conection (BC)		11	
			School, Mosque, Hotel, Health	center
	05-25 Average of daily water consumption of Business Connection (BC) m3/day	0.33m3/day	
	05-26 Other technical specimen		***************************************	
06	Operation and Maintenace			
	06-01 Organization's name		Town water supply service	
		egional, 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 W-4	-1-
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.	Point, House Connectionetc.	Water meter read, Bill, Water so W. Point, House connnection	aie
	06-08 Water tariff rate	, 110ase ComiccionClc.	Tom, Touse commected	
	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	
		n, Zonal Cap. Reg. Capetc. il filter, Fuel filter, Pipesetc	Asela Punes & fittings Water meter	
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		nil.	
	<u> </u>	anization, Gov., Donorsetc.		
	06-15 Other technical specimen			

O-05 Kidame Digelu

OF Problem of actual town water supply OF OF Terminal					
Water source Water supply facility Decrepit, leakange, design failureetc per network limitation 07-42 Finalcial Management Rate of water tarrif collection Personal expenses Shourtage of budget to execute operation & maintenace 07-43 Other incentual, Special specimen Increase in population to consume water coming from other towns, villagesetc Orning from villagers, students Huma conduct 07-40 Other specimen Sourgaphical condition (Slope on mountain) Orable of the perinding of the peri					ļ
Water supply facility Decrepit, leskage, design failureeta Ppe network limitation 07:02 Finalcial nil. Rate of water tarif collection Not grasped nil. Rate of water tarif collection Not grasped nil. Not grasped nil. Not grasped nil. Not grasped nil. Shortage budget for O&M Shor					ļ
Graph Finalcial Management Mill Management Mill Management Mill Management Mill Management Mill M					ļ
Management Rate of water surif collection Personnel expenses Shourtage of budget for oxecute operation & maintenance Shourtage of budget for oxemal propulation to execute operation & maintenance Of 30 Other incidential, Special specimen Increase in population to consume water conting from other towns, villageset. Coming from villagers, students Change in industry increase factory, Trading etc. inil. Of 30 Other production to consume water conting from other towns, villages etc. Oming from villagers, students Change in industry increase factory, Trading etc. inil. Of 30 Other specimen Of 30 Other specimen Of Seographical condition Town is on grully slope on mountain. Of Seographical condition Town is on grully slope on mountain. Of Necessary Institution (Facility, Material) Expansion Ground Reservoir Refer to Chapter 4 Table 4.7 Of Current Water Coverage (%) (A On378PF+1.3n3*11PBC+0.33m3*11BC)=190.3m3/day 190.3m3/201.ged9.515persons 9.515persons 7.55population-335% (Current Water Coverage (%) by data of water source product)) (Call St.)**GOthmin*24bns)-185760L 185760L 201-928spersons 7.288persons/7.780population-235% (Current Water Coverage (%) by data of water source product) (Call St.)**GOthmin*24bns)-185760L 185760L 201-928spersons 7.288persons/7.780population-235% (Current Water Coverage (%) by data of water source product) (Call St.)**GOthmin*24bns)-185760L 185760L 201-928spersons 7.288persons/7.780population-235% (Current Water Coverage (%) by data of water source product) (Call St.)**Gothmin*24bns)-185760L 185760L 201-928spersons 7.288persons/7.780population-235% (Current Water Coverage (%) by data of water source product) (Call St.)**Gothmin*24bns)-185760L 185760L 201-928spersons/7.780population-235% (Call St.)**Gothmin*24bns)-185760L 185760L 201-928spersons/7.780population-235% (Call St.)**Gothmin*24bns)-185760L 201-928spersons/7.780population-235% (Call St.)**Gothmin*24bns)-185760L 201-928spersons/7.780population-235% (Call St.)**Gothmin*24bns)-185760L 201-928spersons/7.780population		Water supply facility Decrepit, leakage, design failureetc	Pipe network	k limitation	
Rate of water tarif collection Personnel expenses Shourtage of budget to execute operation & maintenance Personnel expenses Shourtage of budget to execute operation & maintenance Or-03 Other incidental, Special specimen Increase in population to consume water coming from other towns, villages etc. Coming from villagers, students Change in industry Human conflict Debnic, Administrative etc. inl. Human conflict Shortage segmen (Slope on mountain. Security in the students of the stud		07-02 Finalcial			
Ferrounce expenses Shortage budget for O&M		Management	nil.		
Shortrage of badget to execute operation & mointenance 07-03 Other incidentals. Special specimen Increase in population to consume water coming from other towns, villages,etc. Onling from villagers, students Change in industry 1 Ituman conflict 07-04 Other specimen 08 Geographical condition Town is on gently slope on mountain. 09 Necessary Institution (Facility, Material) Expansion Ground Reservoir Refer to Chapter 4 Table 4.7" 10 Current Water Coverage (%) (d. 0m3*RPF4-1.3m3*11PGC-190.3m3*11BC)=190.3m3/day 190.3m3/20Lpcd.=9,515persons 9.515persons/1.780population-535% 1 (d. 0m3*RPF4-1.3m3*19F4-0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.=9,515persons/9.15persons/1.780population-535% 1 (d. 0m3*RPF4-1.3m3*19F6-0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.=9,515persons/9.1780population-535% 1 (d. 0m3*RPF4-1.3m3*19F6-0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.=9,515persons/9.7580population-535% 1 (d. 0m3*RPF4-1.3m3*19F6-0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.=9,515persons/9.7580population-535% 1 (d. 0m3*RPF4-1.3m3*19F6-0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.=9,515persons/9.7580population-535% 1 (d. 0m3*RPF4-1.3m3*19F6-0.33m3*11BC)=190.3m3/day 190.3m3/day 19		Rate of water tarrif collection	Not grasped		
O7-30 Other incidential, Special specimen Increase in population to consume water coming from other towns, villages Level Coming from villagers, students Change in industry increase factory, Trading Level call		Personnel expenses	nil.		
O7-30 Other incidential, Special specimen Increase in population to consume water coming from other towns, villages Level Coming from villagers, students Change in industry increase factory, Trading Level call		Shourtage of budget to execute operation & maintenace	Shortage bud	lget for O&M	
Increase in population to consume water Change in industry Change industry Change in			<u> </u>		†
Change in industry increase factory, Tradingete [nil.] Human conflict Ethnic, Administrativeete [nil.] 07-04 Other specimen 86 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeete.) Town is on gently slope on mountain. 80 Necessary Institution (Facility, Material) Expansion Ground Reservoir Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) (%) data of water source product) (%) (21.51)-3600mm ² -4hrs-185700. 1887601.201_9288persons 92818persons/1780population=535% Current Water Coverage (%) (by data of water source product) (%) (21.51)-3600mm ² -4hrs-185700. 1887601.201_9288persons 9288persons/1780population=243% 11 Water Potential (A / B / C / D / E) 22 Accessibility (A/B / C / D / E) Acces		Increase in population to consume water coming from other towns villages etc	Coming from	n villagers, students	
Human conflict Floring		Change in industry increase factory Trading etc	nil		
05 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is on gently slope on mountain. Occessary Institution (Facility, Material) Expansion Ground Reservoir Refer to Chapter 4 Table 4.7* 10 Current Water Coverage (%) Current Water Coverage (%) Current Water Coverage (%) Cy 15th 25th 25th 25th 25th 25th 25th 25th 2					
Seographical condition (Slope on mountain), bottom of valley, Top of ridgeetc.)			, IIII.		<u> </u>
Town is on gently slope on mountain. Sympanisin Ground Reservoir Refer to Chapter 4 Table 4.7* S55% 1.78* S55%		07-04 Other specimen			ļ
Town is on gently slope on mountain. Sympanisin Ground Reservoir Refer to Chapter 4 Table 4.7* S55% 1.78* S55%	00	C	\		<u> </u>
80 Necessary Institution (Facility, Material) Expansion Ground Reservoir)		ļ
Expansion Ground Reservoir Refer to Chapter 4 "Table 4.7"		Town is on gentry stope on mountain.			
Expansion Ground Reservoir Refer to Chapter 4 "Table 4.7"					ļ
Expansion Ground Reservoir Refer to Chapter 4 "Table 4.7" [10 Current Water Coverage (%) [64.0m3*8PF+1.3m3*119HC+0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd.= 9.515persons 9.515					
Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) 1535%					ļ
Current Water Coverage (%) 535% 1					
4.0m3*8PF+1.3m3*119HC+0.33m3*11BC_D=190.3m3/day_190.3m3/20Lpcd_= 9.515persons_17.89population=535% Current Water Coverage_(%)_0 by_data of water source product)) (2.15L)*3600min*24hs=185760L_185760L20L=9288persons_9288persons_1780population=245% Water Potential_(A/B/C/D/E)		Refer to Chapter 4 "Table 4.7"			
(4.0m3*8PF+1.3m3*119HC+0.33m3*11BC)=190.3m3/day 190.3m3/20Lpcd = 9.515persons 9.515persons 1.780population=535% Current Water Coverage (%) by data of water source product)) (2.15L)*3600min*24ths:=185760L 185760L20L=9288persons 9.288persons 1780population=243% Water Potential (A/B/C/D/E)				T	
Current Water Coverage (%) (by data of water source product)) ((2.15L)*9600min*2*Mns*= 185706L 185706L 20L=9288persons 9288persons/1780population=243% Water Potential (A / B / C / D / E) Accessibility (A / B / C / D / E) Accessibility (A / B / C / D / E) Accessibility (A / B / C / D / E) Accessibility (A / B / C / D / E) Accessibility (A / B / C / D / E) Access road is Sub Grade 15km from Sague.* Refer to Chapter 5 Table 5-7; Categories of accessibility* 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 hills, construction works is required some ingenuities arround water sources. 16 Other Donons, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km 42 -3 Main patients of water born diseases persons / year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 4"=500m PVC 2"12"=2,000m Total L=5,500m		<u> </u>			!
C2_15Ly=3600min*24lrs)=185760L_185760L_70L=9288persons 9288persons/1780population=243% C3_12_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_185760L_70L= C4_15_15_1600min*24lrs)=185760L_70L= C4_15_15_1600min*24lrs)=185		$(4.0m3*8PF+1.3m3*119HC+0.33m3*11BC) = \overline{190.3m3/day} 190.3m3/20Lpcd. = 9,515 person (4.0m3*8PF+1.3m3*119HC+0.33m3*11BC) = \overline{190.3m3/day} 190.3m3/20Lpcd. = 9,515 person (4.0m3*8PF+1.3m3*119HC+0.33m3*11BC) = \overline{190.3m3/day} 190.3m3/20Lpcd. = 9,515 person (4.0m3*8PF+1.3m3*119HC+0.33m3*11BC) = \overline{190.3m3/day} 190.3m3/20Lpcd. = 9,515 person (4.0m3*8PF+1.3m3*11BC) = \overline{190.3m3/day} 190.3m3/day$	s 9,515persor	ns/1,780population=535%	
Water Potential (A/B/C/D/E) A-Assphalt/B-Base CourseC-Sub Grade-D-Only Dry Season/E-Not Approached B / B				522%	
Water Potential (A/B/C/D/E) A-Assphalt/B-Base CourseC-Sub Grade-D-Only Dry Season/E-Not Approached B / B		((2.15L)*3600min*24hrs)=185760L 185760L/20L=9288persons 9288persons/1780population	on=243%		
12 Accessibility (A/B/C/D/E) A=Asphalt/B=Base CourseC=Sub Grade:D=Only Dry Season(E=Not Approached B/B A=Road Width > 6m /B=>3-6m /C=1-3m /D=<1m /	11	Water Potential (A/B/C/D/E)		С	
Access road is Sub Grade 15km from Sague. * Refer to Chapter 5 "Table 5-7: Categories of accessibility" 13 Manpower Capability of Water Supply Management by Water Office point) 14 Degree 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 hills, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions - 1. Medical facilities in Town - 2. Nearest other facilities from Town - 3. Main patients of water born diseases Persons/year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (Town sketchetc.): Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (Town sketchetc.): O5-15 Distribution Type (Spring No.1) PVC 4"=500m PVC 2"=2,000m Total L=5,500m	_				
Access road is Sub Grade 15km from Sague. * Refer to Chapter 5 "Table 5-7: Categories of accessibility" 13 Manpower Capability of Water Supply Management by Water Office point) 14 Degree 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 hills, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions - 1. Medical facilities in Town - 2. Nearest other facilities from Town - 3. Main patients of water born diseases Persons/year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (Town sketchetc.): Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (Town sketchetc.): O5-15 Distribution Type (Spring No.1) PVC 4"=500m PVC 2"=2,000m Total L=5,500m	12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B / B	
Access road is Sub Grade 15km from Sague. * Refer to Chapter 5 "Table 5-7: Categories of accessibility" Manpower Capability of Water Supply Management by Water Office point) 12			rr	/ 2	1
Manpower Capability of Water Supply Management by Water Office point) 12			ccessibility"		
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 hills, construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions -1 Medical facilities in Town Health Center, Private clinic, Drug store -2 Nearest other facilities from Town Amin advanced technology. The small town is on the hills, construction works is required some ingenuities arround water sources. 18 Health conditions -1 Medical facilities in Town Prefaction Town Prefac			eccssionity	12	
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 hills, construction works is required some ingenuities arround water sources. 16	13	water office points		12	
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 hills, construction works is required some ingenuities arround water sources. 16					
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 hills, construction works is required some ingenuities arround water sources. 16	1.4			ı	-
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. 16 Other Donors, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (Town sketchetc.): 05-15 Distribution Type (Spring No.1) PVC 4"=500m PVC 2*=1,000m Total L=5,500m					
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. 16 Other Donors, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km 42 -3 Main patients of water born diseases persons / year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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		Refer to Chapter 5 & 7			
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. 16 Other Donors, NGO's World Vision 17 Main Ethnic Group Amhara, Oromo 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km 42 -3 Main patients of water born diseases persons / year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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					
construction works is required some ingenuities arround water sources. Construction works is required some ingenuities arround water sources.	15	New Water Supply Plan			
construction works is required some ingenuities arround water sources. Construction works is required some ingenuities arround water sources.		The facility can be designed in an Ethiopian standard, which is not required more advanced tec	chnology The	semall town is on the hills	
Other Donors, NGO's World Vision			illiology. The	sman town is on the inns,	
World Vision 17 Main Ethnic Group		construction works is required some nigenuities arround water sources.			
Main Ethnic Group	16	Other Donors, NGO's			
Health conditions		World Vision			
Health conditions					l
Health conditions	17	Main Ethnic Group	Amhara, Oro	omo	
-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 economic activities -4 Trade, Farming -5 Particular comments: -6 Particular comments: -7 P					
-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 economic activities -4 Trade, Farming -5 Particular comments: -6 Particular comments: -7 P	18	Health conditions			
-2 Nearest other facilities from Town km 42 -3 Main patients of water born diseases persons / year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments: 21 Remarks: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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	10		Health Cente	er Private clinic Drug stor	
-3 Main patients of water born diseases persons / year Typhoid 264 19 Main economic activities Trade, Farming 20 Particular comments : 21 Remarks : Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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					T
19 Main economic activities Trade, Farming 20 Particular comments: In the second of					
20 Particular comments: 21 Remarks: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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		-3 Main patients of water born diseases persons / year	Турпоіц	204	ļ
20 Particular comments: 21 Remarks: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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	10	NA 1 2 22	m 1 F		
21 Remarks: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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	19	Main economic activities	Trade, Farm	ıng	ļ
21 Remarks: Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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					—
Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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	20	Particular comments :			
Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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					ļ
Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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					ļ
Mr. Girma Teshome Former Water committee member and town dewellor Mob. 0912258158 Memo (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					
Memo (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 PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m PVC 3"=1,000m PVC 3"=1,0000m PVC 3"=1,00000m PVC 3"=1,	21	Remarks:			
Memo (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 PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m PVC 3"=1,000m PVC 3"=1,0000m PVC 3"=1,00000m PVC 3"=1,					<u> </u>
Memo (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 PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m PVC 3"=1,000m PVC 3"=1,0000m PVC 3"=1,00000m PVC 3"=1,					
Memo (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 PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m PVC 3"=1,000m PVC 3"=1,0000m PVC 3"=1,00000m PVC 3"=1,		Mr. Girma Teshome Former Water committee member ar	d town dewel	lor Mob. 0912258158	
05-15 Distribution Type (Spring No.1) PVC 4"=500m	Men				
PVC 4"=500m PVC 2*1/2"=2,000m PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m			1	1	·
PVC 4"=500m PVC 2*1/2"=2,000m PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m		05-15 Distribution Type (Spring No.1)			
PVC 3"=1,000m PVC 2"=2,000m Total L=5,500m				***************************************	†
		1 1 C 2 -2,000m 1 Utal L-3,000m			J

Data 7.2 Small Town Profile of Oromia Region

O-05 Kidame Digelu



O-06 Sague

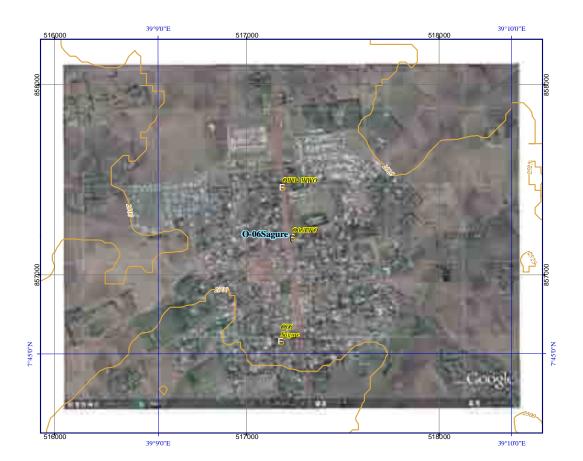
	Oromia Region				5 /30	1
	Name of small town	•	Sague		O- 06	
	Name of Woreda	:	Digaluna Tij	jo	OW- 04	
	Name of Zone	:	Arsi		OZ- 01	
		Profile items		Pr	ofile	!
01	Population	1 (6 1 ()	1 OWDD	5.044	5,000 10,000	
	Town Woreda	male / female / total male / female / total	by OWRB by Census 2007	5,044 69,471	5,882 10,926 70,942 140,413	
	percentage of Town in Wore		by Census 2007	09,471	7.8%	
02		UTM (Adindan)	Easting / Northig / Alt.	517142	857073 2,521	
	Town Status			Municipally	,-	
04	Water Source					
	04-01 Water source		Type, No.	Spring*2nos. 22km		
	04-02 Well spec.	Dep	th., Casing Dia., S.W.L, Yield			
	04-03 Method of water draw		Pump, Gravity Type, Yield	No.1 Pump / No.2 No.1 Morotized pu		ļ
	04-04 Pump Spec. 04-05 Power source for motorized p	nimn	Type, Kva		Mith standby Generator	
	04-06 Durartion of water draw (Ope		daily hours, time		08:00 /No.2 24hrs.	
	04-07 Water quality	oranion nours)	Iron, Fluorideetc.	good		
	04-08 Other technical specimen					
			the state of the s			
05	Existing Water Supply Facilities					ļ
	05-01 Established year		(Gregorian calendar)	2004		
	05-02 Financial of implementation		Donor's name	OWRB		ļ
	05-03 Name of implementation (Pro 05-04 Intake Type	oject name)		Gugesa water proje Spring	ect	
	05-05 Intake No.			2nos.		-
	05-06 Conveyance Type (Water sou	urce ~ Reservoir)	Pipe material, length		No.2 PVC 3" 6,000m	
	05-07 Power to convey	aree reservoir)	Pressure, Gravity	No.1 Pressure / No		†
	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.		
	05-12 Water reserver Capacity		m3		*1no. / GR25m2*2nos.	ļ
	05-13 Transmission Type (Booster 05-14 Power to transmit	pump Stn. ~ Reservoir)	Programs Crevity	nil. nil.		
	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	see below memo		!
	05-16 Power to distribute		Pressure, Gravity	Gravity		+
	05-17 Structure Type of water poin	t (Public Faucet, PF)	RC, Masonry, Pipeetc.			·
	05-18 Number of water point (Publ		no.	25 (Town 9 / Rura	l 16)	†
	05-19 Number of faucet at a water p		no.	6		1
	05-20 Average of daily water consu		m3/day	4.3m3./day		
	05-21 Number of House Connection			834		ļ
	05-22 Average of daily water consump		m3/day	0.166m3/day		<u> </u>
	05-23 Number of Business Conection		ol, Gov. office, Hospitaletc.	72	l Hospital	
	05-24 Type of Business Connection 05-25 Average of daily water consumpt			0.166m3/day	і, поѕрітаі	
	05-26 Other technical specimen	ion of Business Connection (BC)	morady	0.100III3/day		ļ
	03 20 Guer teenmeur speermen					†
06	Operation and Maintenace					
	06-01 Organization's name			Town warter suppl	y servise	
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc	OWRB		
	06-03 Number of thechnical staff			5		ļ
	06-04 Principal works of technical			Pump Operation, F	lumbin	
	06-05 Number of the financial staff 06-06 Principal works of financial staff			Water meter read,	D:II	
	06-07 Categories of water tariff		Point, House Connectionetc.		ion (Incl. B.Connection)	ļ
	06-08 Water tariff rate	1. W	om, mouse connectionetc.		(men 2.connection)	
	Water point (Public faucet)		Birr/L, 20L	0.05 birr / 20L		1
	House connection		Birr/m3	see below memo		1
	Business connection		Birr/m3	ditto		
	06-09 Average monthly income by		Birr/month	20,000birr/month		
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.	Asela, Addis Abab		<u> </u>
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc		meter, Filters	<u> </u>
	06-12 Method in case of serious rep		office, Private companyetc			-
	06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.	Generator broken NGO (Ethio-Italy)		
	06-15 Other technical specimen	by Orga	anzation, Gov., Donoisetc.	(Luno-nary)		
	22 23 Other technical specimen					
	I .			i .		

O-06 Sague

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87%
pulation = 87%
85%
ulation=185%
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1

Data 7.2 Small Town Profile of Oromia Region

O-06 Sague



O-07 Kersa

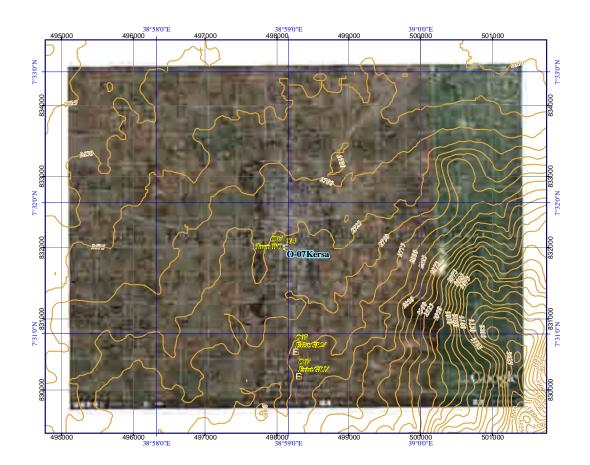
	Oromia Region		6 /30	
	Name of small town :	Kersa	O- 07	
	Name of Woreda :	Munesa	OW- 05	
	Name of Zone :	Arsi	OZ- 01	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by OWRB	4,803 5,113 9,916	
	Woreda male / female / total	by Census 2007	82,497 83,917 166,414	
	percentage of Town in Woreda		6.0%	
	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	498043 831878 2,728	
	Town Status		Municipality	
04	Water Source 04-01 Water source	Type, No.	Spring*1no. 6km from Town	
		oth., 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	24hrs.	•
	04-07 Water quality	Iron, Fluorideetc.	good	
	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	OWRB	
	05-03 Name of implementation (Project name)		Kersa water project	
	05-04 Intake Type		Spring	
	05-05 Intake No.	Diagram de dial la code	Ino.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	GIP 4" 10,000m (10km) Gravity	
	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	GR	
	05-11 Water reserver No.	no.	GR*2nos.	·
	05-12 Water reserver Capacity	m3	GR100m3*1no., GR25m2*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	GIP 3"~3/4" see below memo 12,500n	
	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)	no.	16	
	05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF	no.	2faucet*7WP/4Faucet*4WP/5Faucet*5WP	
	05-20 Average of daily water consumption at a water point (PF 05-21 Number of House Connection (HC)) m3/day	1.9m3/day (57.6m3/month) 1,003	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.41m3/day	
	05-23 Number of Business Conection (BC)	ms/day	50	
		ol, Gov. office, Hospitaletc.	Gov., School, Hospital, Hotel	
	05-25 Average of daily water consumption of Business Connection (BC		1.12m3/day	
	05-26 Other technical specimen			
	<u> </u>			
06	Operation and Maintenace			
	06-01 Organization's name		Town water supply servise	
		egional, Zone, Enterpriceetc.	Zone	
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff		Plumbing, Pipe repair	
	06-05 Number of the financial staff		10	
	06-06 Principal works of financial staff	D : II G :	Water meter count, Bill	
	06-07 Categories of water tariff W 06-08 Water tariff rate	Point, House Connectionetc.	W. Point, House Connecti	
	Water point (Public faucet)	Birr/L, 20L	2.0birr/m3	
	House connection	Birr/m3	see below memo	L
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	26,000birr/month	!
			Asela, Addis Ababa	
		il filter, Fuel filter, Pipesetc	· · · · · · · · · · · · · · · · · · ·	
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	.,	nil.	·
l	06-14 Fund for above 6-09, 6-10 by Org	anization, Gov., Donorsetc.		·
l	06-15 Other technical specimen			

O-07 Kersa

		ı		
07	Problem of actual town water supply			
	07-01 Technical Water source Ouantity, Oualityetc.	XV-4		
	Water source Quantity, Qualityetc. Water supply facility Decrepit, leakage, design failureetc	Water shorta	ge	
	07-02 Finalcial	1		
	Management	Demand peri	nanent office	
	Rate of water tarrif collection	Beniana peri	indicine diffice	
	Personnel expenses	Shortage staf	f number	
	Shourtage of budget to execute operation & maintenace	Bhortage star	1 Humber	
	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	1		
	or or other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
	Town is alomost Flat area with gentle slope	<u>/</u>		
	8			
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,	881 persons /9 0		+ •
	Current Water Coverage (%) (by water product at wells and/or springs)	001pc150H8 / 7,9	22%	
		60nersons/901	6population=22%	
11	Water Potential (A / B / C / D / E)	- JP-100110/ J71	В	1
. 1	macriocental (III DICI DI L)		ъ	┪
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	C/C	1
	A=Road Width > $6m /B$ = >3~ $6m / C$ = 1~ $3m / D$ = <1 m	11		1
	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	
	g			
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 to	hnology Tho	small town is on the	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tea generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's	chnology. The	small town is on the	
16		chnology. The	small town is on the	
16	generally flat terrains, however, construction works is required some ingenuities.	chnology. The	small town is on the	
	generally flat terrains, however, construction works is required some ingenuities.	Chnology. The	small town is on the	
	generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's		small town is on the	
17	generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's		small town is on the	
17	generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group	Oromo	small town is on the	ore
17	generally flat terrains, however, construction works is required some ingenuities. Other Donors, NGO's Main Ethnic Group Health conditions	Oromo		ore
17	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		ore
17	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	r, Private clinic, Drug sto	ore
17	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	r, Private clinic, Drug sto 1,200 607 415	ore
17	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 clinic, Drug sto 1,200 607 415 950	Dore
117	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 others	r, Private clinic, Drug sto 1,200 607 415	ore
17 18 19	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	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	pore
17 18 19	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 clinic, Drug sto 1,200 607 415 950	ore
17 18 19	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	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dire
17 18 19	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	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dire
117 118 119 220	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 clinic, Drug sto 1,200 607 415 950	Distriction
117 118 119 220	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 clinic, Drug sto 1,200 607 415 950	Distriction
17 18 19 20	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 clinic, Drug sto 1,200 607 415 950	Property
117 118 119 220	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 clinic, Drug sto 1,200 607 415 950	pore
117 118 119 220	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)	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dre
117 118 119 20	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 clinic, Drug sto 1,200 607 415 950	ore
17 18 19 20	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)	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dire
117 118 119 220	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)	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Pre
117 118 119 220	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) no (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dre
17 18 19 20	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) no (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m 2*1/2" = 1,000m 1" = 1,000m	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dore
117 118 119 220	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) no (Town sketchetc.): O5-15 Distribution Type (GIP) 3" = 1,500m 1*1/2" = 2,500m	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dore
17 18 19 20	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) no (Town sketchetc.): 05-15 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	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dre
17 18 19 20	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) no (Town sketchetc.): 05-15 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 06-05 Water tariff Water meter lease;	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	ore .
17 18 19 20	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) no (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 clinic, Drug sto 1,200 607 415 950	Distriction
17 18 19 20	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) no (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 = 5.30birr/m3 Dia. 1/2" = 2.0birr/month 3~5m3 = 4.20birr/m3 11m3~ = 5.90birr/m3 Dia. 3/4" = 3.0birr/month	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Pre
17 18 19 20	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) no (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 clinic, Drug sto 1,200 607 415 950	Dire
17 18 19 20	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) no (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 = 5.30birr/m3 Dia. 1/2" = 2.0birr/month 3~5m3 = 4.20birr/m3 11m3~ = 5.90birr/m3 Dia. 3/4" = 3.0birr/month	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dre
17 18 19 20	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) no (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 = 5.30birr/m3 Dia. 1/2" = 2.0birr/month 3~5m3 = 4.20birr/m3 11m3~ = 5.90birr/m3 Dia. 3/4" = 3.0birr/month	Oromo Health Cente 57 Diarrhea Dysentery Typhoid others	r, Private clinic, Drug sto 1,200 607 415 950	Dore

Data 7.2 Small Town Profile of Oromia Region

O-07 Kersa



O-09 Merano

	Oromia Region		7 /30	
	Name of small town :	Merano	O- 09	
	Name of Woreda :	Limana Bilbi	lo OW- 20	
	Name of Zone :	West Arsi	OZ- 04	
	Profile items		Profile	!
01	Population Town male / female / total	by OWRB	2,234 2,491	4,725
	Woreda male / female / total	by Census 2007	· · · · · · · · · · · · · · · · · · ·	81,789
	percentage of Town in Woreda	by Consus 2007	0,,000 ,1,,00 1	2.6%
_	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	526870 818549	2,979
	Town Status		Municipality	
04	Water Source 04-01 Water source	Type, No.	Spring * 1no. (During Rainy sea	eon)
		pth., Casing Dia., S.W.L, Yield		13011)
	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) 04-07 Water quality	daily hours, time Iron, Fluorideetc.	07:30-09:00 (1.5hrs./day) food	
	04-08 Other technical specimen	non, Puorideetc.	1000	

05	Existing Water Supply Facilities	-		
	05-01 Established year	(Gregorian calendar)	1989	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	Not grasped Merano water project	
	05-04 Intake Type		Spring	
	05-05 Intake No.		Ino.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 3", 1,000m	
	05-07 Power to convey	Pressure, Gravity	Gravity	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity 05-10 Water reserver type	m3/day	nil. GR	
	05-10 Water reserver No.	Type no.	lno.	
	05-12 Water reserver Capacity	m3	25m3	
	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	See below memo Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)		Mansonry	
	05-18 Number of water point (Public Faucet, PF)	no.	6 (3 function)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6FC*5PF, 1FC*2PF	
	05-20 Average of daily water consumption at a water point (PF	m3/day	2.0m3/day	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC	2/1	63 0.1m3/day	
	05-23 Number of Business Conection (BC)) m3/day	0.11113/day 8	
		ool, Gov. office, Hospitaletc.	Mosque, School, Gov.	
	05-25 Average of daily water consumption of Business Connection (BC		0.47m3/day	
	05-26 Other technical specimen			
06	Operation and Maintanage			
06	Operation and Maintenace 06-01 Organization's name		Town water office	
	<u> </u>	egional, Zone, Enterpriceetc.	Community based organization	
	06-03 Number of thechnical staff	<u> </u>	nil.	
	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		2	,
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.	Point, House Connectionetc.	Water meter read, Bill, Water sa W. Point, House connection	ıle
	06-08 Water tariff rate	1 OIII, 110use Connectionetc.	11. 1 OHR, HOUSE COMECUOII	
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L	
	House connection	Birr/m3	1.5birr/m3	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	350birr/m3	
			Addis Ababa	
	06-12 Method in case of serious repair by Regiona	Oil filter, Fuel filter, Pipesetc l office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	i office, i fivate companyetc	Pipe leakage	
		ganization, Gov., Donorsetc.	Water committee	
	06-15 Other technical specimen			

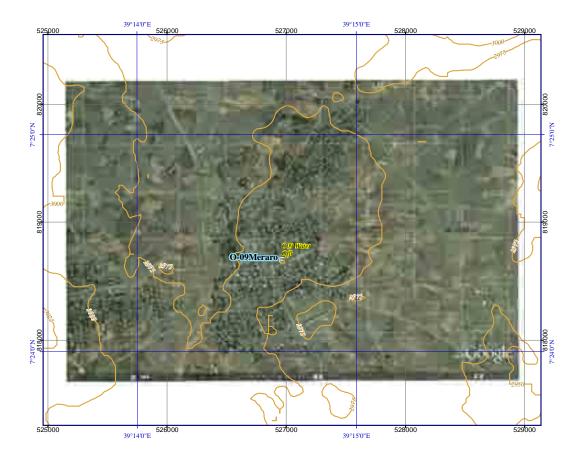
O-09 Merano

Data 7.2 Small Town Profile of Oromia Region

07	Problem of actual town water supply			
07	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage water	st.	
	Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial	ivot suppry wa	ater arround make area	
	Management	Shortage budg	rot	
	Rate of water tarrif collection	Not grasped	301	
	Personnel expenses	low		
	Shourtage of budget to execute operation & maintenace	Shortage budg	ret for O&M	
	07-03 Other incidential, Special specimen	Shortage budg	get for Ocean	
	Increase in population to consume water coming from other towns, villagesetc	Coming from	other towns & villagers	
	Change in industry increase factory, Tradingetc		other towns & vinagers	
	Human conflict Ethnic, Administrativeetc			ļ
	07-04 Other specimen			
	07-04 Other specifical			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.			
00	Town is on the slope of mountain & flat area.)		ļ
	Town is on the stope of mountain & riat area.			
09	Necessary Institution (Facility, Material)			
09	Refer to Chapter 4 "Table 4.7"			
	Refer to Chapter 4 Table 4.7	***************************************		
10	Current Water Coverage (94) (by vieter consumption at fort-)	Г	170/	!
10	Current Water Coverage (%) (by water consumption at faucets))5====== / 4 =	17%	
	(2.0m3*3PF+0.10m3*63HC+0.47m3*8BC)=16.1m3/day 16.1m3/20Lpcd.= 805 persons 80	Dersons / 4, /	23 population = 1 /%	
	Current Water Coverage (%) (by data of water source product))	L		ļ
11	W. D. C. L. (A./D./G/D./E)	Т	C	-
11	Water Potential (A / B / C / D / E)		С	
12	A TITL (A/P/G/P/P) A ANDROP C COLOUR CONTROL CONTROL	A	D / C	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	B/C	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
10	Access road is Base cource and Sub grade 75km from Asela		9	
13	Manpower Capability of Water Supply Management by Water Office (point)		9	
14	Dgree of urgency (A / B / C / D / E)	L		
	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	Oromo		
18	Health conditions			
			c, Drug store, Health pos	<u> </u>
	-2 Nearest other facilities from Town km	71		
	-3 Main patients of water born diseases persons / year	Typhoid	1,500	
		Dysentery	300	
		Diarrhea	17	
		others	1,300	
19	Main economic activities	Trade, Farmin	ıg, Waving	
20	Particular comments :		0 1	
	The existing water source (spring) is not staible by seasonal water product. Therefore, benefic	al effect of the	new facility is high.	
				ļ
21	Remarks:			
	Mr. Wondimu Jote Mayor of the town administration Mob			
	Mr. Gebissa Haile Water Committee chairman Mob. 0913		51	
	Mr. Challa Dechassa Finance head of water committee 09	10831709		
Men	no (Town sketchetc.):			
				,
	05-15 Distribution Type			
	GIP 3"=4,000m GIP 2"=840m			
	GIP 2*1/2"=350m PVC 1*1/2"=1,190m	Total L=6,380)m	<u> </u>
	•		"	
	_		·	
	_		-	
	•		•	
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	-		•	
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Data 7.2 Small Town Profile of Oromia Region

O-09 Merano



O-10 Kofele

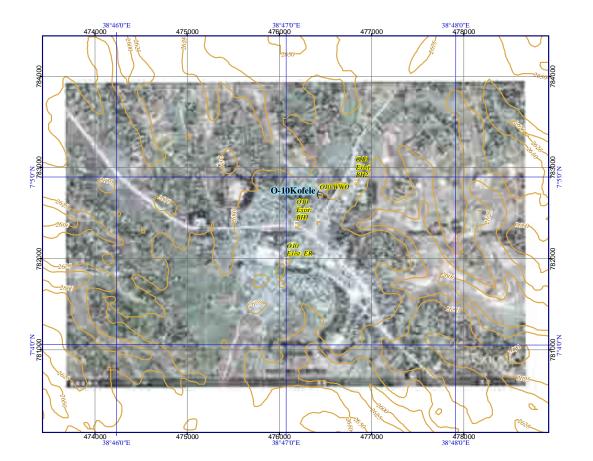
Name of Small town	14,401 179,508 8.0% 2,648 0or (Brokeen) 2hrs./day)
Name of Zone	14,401 179,508 8.0% 2,648 2,648
Profile Population	14,401 179,508 8.0% 2,648 0r (Brokeen) 2hrs./day)
Profile Population	14,401 179,508 8.0% 2,648 0r (Brokeen) 2hrs./day)
Town male / female / total by OWRB 7,340 7,061 Woreda male / female / total by Census 2007 90,000 89,508	179,508 8.0% 2,648 2,648 or (Brokeen) 2hrs./day)
Woreda	179,508 8.0% 2,648 2,648 or (Brokeen) 2hrs./day)
Deprecentage of Town in Woreda Comment C	8.0% 2,648 2,648 or (Brokeen) 2hrs./day)
Town Coordination	2,648 or (Brokeen) 2hrs./day)
Town Status	or (Brokeen) 2hrs./day)
Water Source O4-01 Water source Type, No. BH Well * 2nos.	2hrs./day)
04-01 Water source	2hrs./day)
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 05-01 Existing Water Supply Facilities 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) 05-09 Water treatment 05-09 Water treatment capacity 05-01 Water reserver type 05-01 Water reserver Capacity 05-01 Type, Kva 06-01 Comparison of Motorized pump 15kw 07-02 Financial of implementation (Project name) 08-03 Name of implementation (Project name) 09-04 Intake Type 09-05-05 Intake No. 09-06 Conveyance Type (Water source ~ Reservoir) 09-09 Water treatment 09-09 Water treatment 09-09 Water reserver type 09-01 Water reserver No. 09-01 Water reserver No. 09-02 Name of implementation (Project name) 09-09 Water reserver Specific Material (Project name) 09-09 Water reserver No. 09-11 Water reserver No. 09-12 Water reserver Capacity 09-09 Mater reserver Capacity 09-09-09-09-09-09-09-09-09-09-09-09-09-0	2hrs./day)
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 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) 05-09 Water treatment 05-09 Water treatment 05-09 Water reserver type 05-11 Water reserver type 05-11 Water reserver Capacity 05-12 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit 06-06 Conveys one Oscora (Gregorian calendar) 07-09 Pressure, Gravity 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 1975 08:00-12:00, 1975 08:00-12:00, 1975 08:00-12:00, 1975 08:00-12:00, 1975 08:00-12:00, 1975 09:0	2hrs./day)
04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours) 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. 05-05 Conveyance Type (Water source ~ Reservoir) 05-08 Water treatment 05-09 Water treatment 05-09 Water treatment capacity 05-09 Water reserver type 05-10 Water reserver Capacity 05-11 Transmission Type (Booster pump Stn. ~ Reservoir) 05-12 Water reserver to transmit 05-14 Power to transmit 05-14 Power to transmit Pressure, Gravity Pressure, Gravity 05-14 Power to transmit Pressure, Gravity 05-11 Pipe material, length 05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length 05-14 Power to transmit Pressure, Gravity 05-14 Power to transmit 05-14 Power to transmit Pressure, Gravity 08:00-12:00, 14:00-22:00 (12) 08:00-12:00, 14:00-22:00 (12) 09:00-12:00, 14:00-22	2hrs./day)
04-06 Durartion of water draw (Operation hours) 04-07 Water quality 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) 05-08 Water treatment 05-09 Water treatment 05-09 Water treatment 05-09 Water treatment 05-09 Water reserver type 05-11 Water reserver Type 05-11 Water reserver Capacity 05-12 Water to consey 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit 05-14 Power to transmit 05-14 Power to transmit 05-16 Power to transmit 08:00-12:00, 14:00-22:00 (12) 09 08-07-12:00, 14:00-22:00 (12) 09 09 09 09 09 09 09 09 09 09 09 09 09	2hrs./day)
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 05-09 Water treatment 05-09 Water treatment capacity 05-01 Water reserver type 05-01 Water reserver No. 05-10 Water reserver Capacity 05-11 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit 05-14 Power to transmit Disinfection, Iron 05-10 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit 05-16 Possure 05-17 Power to transmit 05-18 Pressure 05-19 Water reserver Capacity 05-19 Water reserver Capacity 05-19 Pipe material, length 05-11 Pressure, Gravity 05-14 Pressure, Gravity 05-16 Pressure, Gravity 05-17 Pressure, Gravity 05-18 Pressure, Gravity 05-19 Pressure, Gravity 05-19 Pressure, Gravity 05-10 Pressure, Gravity 0	-
04-08 Other technical specimen Discription Content Content	pment Unit
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 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) Pipe material, length Disinfection, Ironetc. nil. no. 2nos. 10m3*2nos. (Roto tanks) nil. 05-14 Power to transmit Pressure, Gravity nil.	pment Unit
05-01 Established year (Gregorian calendar) 1975 05-02 Financial of implementation Donor's name Chilallo Agriculture Develop (Sofeletown water project (Sofeletown water proje	pment Unit
05-01 Established year (Gregorian calendar) 1975 05-02 Financial of implementation Donor's name Chilallo Agriculture Develop (Sofeletown water project (Sofeletown water proje	pment Unit
05-02 Financial of implementation Donor's name Chilallo Agriculture Develop Sofeletown water project Most Sofeletown water project O5-04 Intake Type O5-05 Intake No. D5-06 Conveyance Type (Water source ~ Reservoir) O5-07 Power to convey Pressure, Gravity O5-08 Water treatment Disinfection, Ironetc. nil. O5-09 Water treatment capacity Most Type Type ER O5-10 Water reserver type O5-12 Water reserver Capacity Most Sofeletown water project Well GIP, 2", 2,000m Pressure, Gravity Pressure Disinfection, Ironetc. nil. O5-09 Water treatment capacity Most Type ER O5-10 Water reserver type Type D5-10 Water reserver No. No. D6-12 Water reserver Capacity Most Sofeletown water project Well GIP, 2", 2,000m Pressure Pressure Disinfection, Ironetc. No. 10. 210.	pment Unit
05-04 Intake Type 05-05 Intake No. 1no. 05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey 05-08 Water treatment 05-09 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 Well 1no. 1no. 1no. 0FIP, 2", 2,000m Pressure 0FIP, 2", 2,00	
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 Pipe material, length OII. OII. OII. OII. OIII. OIIII. OIII. OIIII. OIIIIIIII	
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.	
05-07 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.	
05-08 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.	
05-09 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.	
05-10 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.	
05-12 Water reserver Capacity m3 10m3*2nos. (Roto tanks) 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length nil. nil. 05-14 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.	
05-14 Power to transmit Pressure, Gravity nil.	
US-13 DISTIBUTION Type Pine material, length lisee 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. 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) m3/day nil.	
05-21 Number of House Connection (HC) 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, 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	
06-01 Organization's name Town water supply service	
06-02 Type of organization Regional, Zone, Enterpriceetc Woreda	
06-03 Number of thechnical staff 3	
06-04 Principal works of technical staff Pump operation, Plumbing& 06-05 Number of the financial staff 3	repair
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	
Water point (Public faucet) Birr/L, 20L Not function	
House connection Birr/m3 See below memo	
Business connection Birr/m3 ditto	
06-09 Average monthly income by water tariff Birr/month 7,000birr/month	
06-10 Procurement of spare parts at Town, Zonal Cap. Reg. Capetc. Sheshemane	
06-11 Principal spare parts Oil filter, Fuel filter, Pipesetc Pipes&fittings 06-12 Method in case of serious repair by Regional office, Private companyetc Zone, Region	
06-12 Method in case of serious repair by Regional office, Private companyetc Zone, Region 06-13 Principal serious repair with 5-10 years Pumpmotor burned	
06-13 Frincipal serious repair with 3-10 years 06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donors etc. Region, Municipality	

O-10 Kofele

	D 11 C 4 14 4 1	1			
07	11.7				
	07-01 Technical				
	Water source Quantity, Quality		Water shortag		
	Water supply facility Decrepit, leakage, design	failureetc.	Superannuation	on	
	07-02 Finalcial				
	Management		Not grasped		
	Rate of water tarrif collection		low		
	Personnel expenses		nil.		
	Shourtage of budget to execute operation & maintenace		Shortage budg	get for O&M	
	07-03 Other incidential, Special specimen			<u> </u>	
	Increase in population to consume water coming from other towns, vi	illages etc	nil.		
	Change in industry increase factory, Tr				
	Human conflict Ethnic, Administration				
	07-04 Other specimen	manveetc.	1111.		
	07-04 Other specimen				
00	Communication (Standard between facility Tourist				_
υδ	Geographical condition (Slope on mountaion, bottom of valley, Top of	nageetc.)			
	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)			38%	
	(0m3*3PF+0.167m3*650HC+0.167*0BC)=108.6m3/day 108.6m3/20Lpcd.= 5,4	27 persons	5,427persons	/ 14,401 population =	= 389
	Current Water Coverage (%) (by data of water source product))	•	1	%	
	((??L+4.4L)*3600min*8hrs)=???L ???L/20L=???persons ???persons/11260po	pulation=???	%	**	
11	Water Potential $(A/B/C/D/E)$	<u> </u>	- · ·	В	-
. 1				ь	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry	Season/E-Not	Annroached	A/B	+
14	Accessibility $(A/B/C/D/E)$ A=Aspiali/B=Base Course/C=Sub Grade/D=Only Dry $A=Road Width > 6m/B = >3~6m/C = 1~3m/C$		2 spproached	A / D	
			C :1:1:4 !	"	
	Access is asphalt road 26km from Sheshemane * Refer to Chapter 5 "Table 5-7:	Categories of	accessibility"		
13	Manpower Capability of Water Supply Management by Water Office point)	***************************************		13	
14	Dgree of urgency (A / B / C / D / E)				
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				
14					
	Refer to Chapter 5 & 7 New Water Supply Plan	advanced took	anology The s	omall 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 required more a generally flat terrains, however, construction works is required some ingenuitiesar			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 required more a			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 required more a generally flat terrains, however, construction works is required some ingenuitiesar			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, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's	rround water	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 a generally flat terrains, however, construction works is required some ingenuitiesar	rround 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 a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group	rround water	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 a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions	rround water	Sources. Oromo, Gurag	ge	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	rround water	Oromo, Gurag		pos
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rround water	Oromo, Gurag Gealth Center, 41	ge Private clinic, Health	pos
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	rround water	Oromo, Guraş Lealth Center, 41 Typhoid	ge Private clinic, Health 1,500	pos
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rround water	Oromo, Guraş Jealth Center, 41 Typhoid Dysentery	Private clinic, Health 1,500 300	pos
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	H	Oromo, Guraş Iealth Center, 41 Typhoid Dysentery Diarrhea	Private clinic, Health 1,500 300 97	pos
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	pos
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	H	Oromo, Guraş Iealth Center, 41 Typhoid Dysentery Diarrhea	Private clinic, Health 1,500 300 97 800	post
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	pos
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 a generally flat terrains, however, construction works is required some ingenuitiesar 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	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	pos
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 a generally flat terrains, however, construction works is required some ingenuitiesar 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	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	pos
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 a generally flat terrains, however, construction works is required some ingenuitiesar 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:	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	pos
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 a generally flat terrains, however, construction works is required some ingenuitiesar 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:	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	post
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not a supply methor of the property of the prope	H	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others	Private clinic, Health 1,500 300 97 800	post
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not remarks:	H operated.	Oromo, Gurag Iealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin,	Private clinic, Health 1,500 300 97 800 g, Livestock	pos
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not seemed. Some persons of the private in the privat	H operated.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methors.	operated.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is supply methord is by private connections and public faucets are not supply methord is supply methord in supply methord is supply methord in supply methord is supply methord in supply methord in supply methord in supply methord in supply method in supply method in sup	operated.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methord is by private connections and public faucets are not supply methors.	operated.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not of the control o	operated.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections an	operated. ati Committee atu Chaiman od Casher Mo	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not facilities from Town sketchetc.): Mr. Gobena Bera Mr. Yesma Nega Mr. Seid Aheme mo (Town sketchetc.): [04-02 Well spec.] Well No.1; Estbsh on 1975 GL-??m / Casing dia.??" / SWL GL-??m ??L	operated. ati Committee atu Chaiman obd Casher Mo	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections and public faucets are not supply method is by private connections an	operated. ati Committee atu Chaiman obd Casher Mo	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not facilities from Town sketchetc.): Mr. Gobena Bera Mr. Yesma Nega Mr. Seid Aheme mo (Town sketchetc.): [04-02 Well spec.] Well No.1; Estbsh on 1975 GL-??m / Casing dia.??" / SWL GL-??m ??L	operated. ati Committee atu Chaiman obd Casher Mo	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, 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 standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not water supply methord is by private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private c	operated. ati Committee atu Chaiman obd Casher Mo	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not facilities from Town sketchetc.): Mr. Gobena Berr Mr. Yesma Nega Mr. Seid Aheme mo (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1975 GL-??m / Casing dia.??" / SWL GL-??m ??L Well No.2; Estbsh on ???? GL-200m / Casing dia. 8" / SWL GL-115m / 4 05-15 Distribution Type GIP 2"=3,000m PVC 1*1/2"=3,000m	operated. ati Committee atu Chaiman atd Casher Mo //sec. 4.4L/sec.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not water supply methord is by private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private connections and public faucets are not water supply methor of its private c	operated. ati Committee atu Chaiman atd Casher Mo //sec. 4.4L/sec.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	
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 not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not of the most of the	operated. ati Committee atu Chaiman atd Casher Mo //sec. 4.4L/sec.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, 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 standard, whichis not required more a generally flat terrains, however, construction works is required some ingenuitiesar 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: Current water supply methord is by private connections and public faucets are not of the most of the	operated. ati Committee atu Chaiman atd Casher Mo //sec. 4.4L/sec.	Oromo, Guraş Gealth Center, 41 Typhoid Dysentery Diarrhea others Trade, farmin	Private clinic, Health 1,500 300 97 800 g, Livestock	

Data 7.2 Small Town Profile of Oromia Region

O-10 Kofele



O-11 Kulumsa

	Oromia Region		9 /30	
	Name of small town :	Kurumusa	O- 11	
	Name of Woreda :	Tiyo	OW- 03	
	Name of Zone :	Arsi	OZ- 01	İ
	Profile items		Profile	!
01	Population			
	Town male / female / total Woreda male / female / total	by OWRB by Census 2007	1,596 1,876 3,472 43,443 43,284 86,727	
	percentage of Town in Woreda	by Census 2007	45,445 45,264 80,727 4.0%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	517670 886130 2,215	
	Town Status		Town administration	
04	Water Source			
	04-01 Water source	Type, No.	nil. Distributed from Asela nil Town & Gonde Town	!
	04-02 Well spec. 04-03 Method of water draw	Depth., Casing Dia., S.W.L, Yield 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	ļ
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			
03	05-01 Established year	(Gregorian calendar)	1989	l
	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.	Di cill d	lno.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	Not grasped (from Asela) Gravity	ļ
	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	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 05-15 Distribution Type	Pressure, Gravity Pipe material, length	nil. GIP, 3"*1,000m, 1"*70m Total 1,070m	ļ
	05-16 Power to distribute	Pressure, Gravity	Gravity	ļ
	05-17 Structure Type of water point (Public Faucet, PF)		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)	116)	nil.	
	05-22 Average of daily water consumption of House Connection() 05-23 Number of Business Conection (BC)	HC) m3/day	nil.	
		chool, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection		nil.	
	05-26 Other technical specimen			
06	Operation and Maintenace		Kulumsa Kebele water committee	
	06-01 Organization's name 06-02 Type of organization	Regional, Zone, Enterpriceetc.		ļ
	06-02 Type of organization 06-03 Number of thechnical staff	regional, Zone, Enterpriceetc.	nil.	ļ
	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	D:/I 20I	1.01:/	
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	1.0birr/month/household nil.	
	Business connection	Birr/m3	nii.	ļ
	06-09 Average monthly income by water tariff	Birr/month	800birr/month	l
		own, Zonal Cap. Reg. Capetc.	Asela	·
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		
		onal office, Private companyetc	Lulumsa agricultural research center	
	06-13 Principal serious repair with 5-10 years		Water Leakage from pipes	<u> </u>
		Organization, Gov., Donorsetc.	Town administration	
	06-15 Other technical specimen			ļ
	T. Control of the Con		İ	

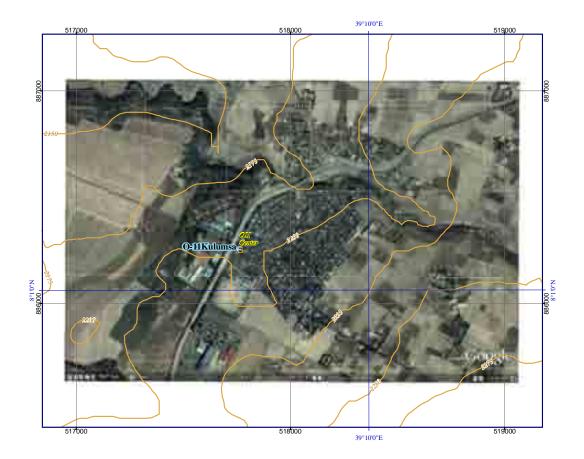
O-11 Kulumsa

	Problem of actual town water supply				
	07-01 Technical				
	Water source Quantity, Qua				
	Water supply facility Decrepit, leakage, design fai	ilureetc	There are not	own water supply facility.	!
	07-02 Finalcial				
	Management		low		
	Rate of water tarrif collection		low		ļ
	Personnel expenses		low		
	Shourtage of budget to execute operation & maintenace		Shortage bud	get for O&M	ļ
	07-03 Other incidential, Special specimen		<u> </u>		
	Increase in population to consume water coming from other towns, villa				ļ
	Change in industry increase factory, Trad			itude center	
	Human conflict Ethnic, Administra	itiveetc	nıl.		ļ
	07-04 Other specimen				
00		1			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ric	igeetc.,)		ļ
	Town is on the flat area.				
00	NI I COLO OF THE MEETING				
	Necessary Institution (Facility, Material)				ļ
	Refer to Chapter 4 "Table 4.7"				
					<u> </u>
10	Current Water Coverage (94)			120/	!
10	Current Water Coverage (%) (4.0m3*2PF+0m3*0HC+0m3*0BC)=8.0m3/day 8.0m3/20Lpcd.= 400persons 40	Mna======	2 1721	12%	٠.
	(4.0m3*2PF+0m3*0HC+0m3*0HC)=8.0m3/day 8.0m3/20Lpcd.= 400persons 40 Current Water Coverage (%) (by data of water source product))	opersons /	ع,41∠ popula		
				%	<u> </u>
11	(((??L)*??min*??hrs)=??L ??L/20L=??persons ??persons/3472population=??% Water Potential (A / B / C / D / E)			В	
11	water fotential (A/D/C/D/E)			D	+
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Se	ason/E-N-	Approached	A/A	\vdash
12	Accessibility $(A/B/C/D/E)$ A=AspnaivB=Base Course/C=Sub Grade/D=Only Dry Se $A=Road Width > 6m/B = 33-6m/C = 1-3m/D$, thiroaciica	A / A	┼
	Access road is Asphalt road 8km from Asela. * Refer to Chapter 5 "Table 5-7: Cate		oooossihility"		
12	Manpower Capability of Water Supply Management by Water Office point)	egories or	accessionity	8	-
13	Manpower Capability of Water Suppry Management by Water Office point)			0	
1/1	Dgree of urgency (A / B / C / D / E)				
14	Refer to Chapter 5 & 7				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
13	Refer to the Chapter 6				
	Refer to the enapter o				·

16	Other Donors, NGO's				
10	Refer to the Chapter 6				
	refer to the chapter o				
17	Main Ethnic Group		Amhara, Oro	mo	
.,					
18	Health conditions				
	-1 Medical facilities in Town		Private clinic	·	1
	-2 Nearest other facilities from Town km		7		
	-3 Main patients of water born diseases persons / year		Typhoid	200	
			-JF		
19	Main economic activities		Waving, Trac	de	
			ی,		1
20	Particular comments :				
	Town has not own water supply facility. Existing water facility (distribution) is supp	olied from	Asela town.		!
	Water supply of this town is transmission pipe line from adjacent town which is inst	~~~~		nis facility is liited an	1
	amount of water and decrepit. The new water supply facility for own of this town to			-	
21	Remarks:		-		
	Mr. Tsegaye Tolla town Resedant Mob. 09200397096 Mr. Girma Bekele	o1 Kebele	chairman. M	ob. 0910418924, 0223314	1886
	Mr. Tibesa Tese Kebele Cabine member Mob.0922030568Mr. Getachew Taff				
Men	no (Town sketchetc.):				
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Data 7.2 Small Town Profile of Oromia Region

O-11 Kulumsa



O-12 Boru Jawi

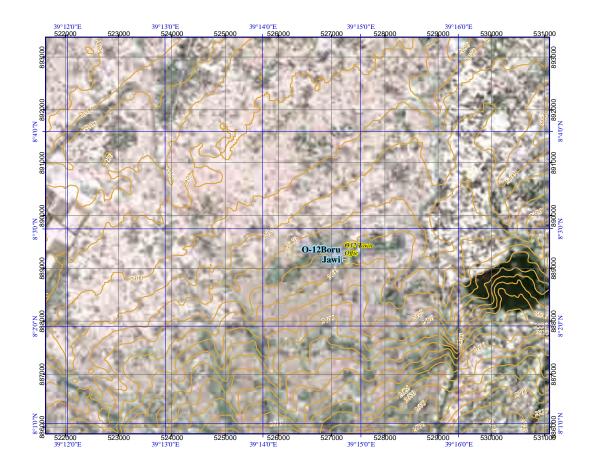
	Oromia Region			10 /	30
	Name of small town :		Boru Jawi	O- 1	12
	Name of Woreda :		Hitosa	OW- ()1
	Name of Zone :		Arsi	OZ- ()1
	Prof	file items		Profile	!
01	Population				
		female / total	by OWRB	2,090 2,356	4,446
		female / total	by Census 2007	62,445 61,734	124,179
00	percentage of Town in Woreda	(A.1'. 1)	E C /N d: /Ak	507151 00046	3.6%
	Town Coordination UTM	(Adindan)	Easting / Northig / Alt.	527151 89046 Town administration	2,370
	Water Source			Town administration	
٠.	04-01 Water source		Type, No.	Spring*1no.	
	04-02 Well spec.	De	epth., 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	1	Type, Kva	nil.	
	04-06 Durartion of water draw (Operation	hours)	daily hours, time Iron, Fluorideetc.	24hrs. good	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	good	
	07-00 Outer technical specifien				
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 (Project na	ame)		Hitosa water project	
	05-04 Intake Type			Spring	
	05-05 Intake No.			1	
	05-06 Conveyance Type (Water source ~ I	Reservoir)	Pipe material, length	nil.	
	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	GR	
	05-11 Water reserver No.		no.	1no.	
	05-12 Water reserver Capacity		m3	25m3	
	05-13 Transmission Type (Booster pump S	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	:- E+ DE)	Pressure, Gravity	Gravity	
	05-17 Structure Type of water point (Publi 05-18 Number of water point (Public Fauc		RC, Masonry, Pipeetc.	Mansonry 7	
	05-18 Number of water point (Fubic Fauc		no.	4	
	05-20 Average of daily water consumption			2.0m3/day	
	05-21 Number of House Connection (HC)			37	
	05-22 Average of daily water consumption of	House Connection(HO	C) m3/day	0.5m3/day	
	05-23 Number of Business Conection (BC			nil.	
	05-24 Type of Business Connection (BC)		ool, Gov. office, Hospitaletc		
	05-25 Average of daily water consumption of B	usiness Connection (Bo	C) m3/day	nil.	
	05-26 Other technical specimen				
06	Operation and Maintenace				
00	06-01 Organization's name			Town water supply servise	
	06-02 Type of organization	I	Regional, Zone, Enterpriceetc		!
	06-03 Number of thechnical staff		S / / /	1	
	06-04 Principal works of technical staff			Plumbing	
	06-05 Number of the financial staff			2	
	06-06 Principal works of financial staff			Water sale, Water meter rea	
	06-07 Categories of water tariff	W	Point, House Connectionetc.	W. Point, House connection	1
	06-08 Water tariff rate		р. и оот	0.11; /20	
	Water point (Public faucet)		Birr/L, 20L	0.1 birr/20L	
	House connection Business connection		Birr/m3 Birr/m3	See below memo nil.	
	06-09 Average monthly income by water t	ariff	Birr/m3 Birr/month	4,100birr/month	
	06-10 Procurement of spare parts		wn, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair		al office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	ears		Spring source was replaced	
	06-14 Fund for above 6-09, 6-10	by Oı	ganization, Gov., Donorsetc.	Enterprise	
	06-15 Other technical specimen				
				1	

O-12 Boru Jawi

Data 7.2 Small Town Profile of Oromia Region

07	Problem of actual town water supply			
07	07-01 Technical			
	Water source Quantity, Qualityetc.	Water shorta	ige	
	Water supply facility Decrepit, leakage, design failuree			
	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			
	Increase in population to consume water coming from other towns, villagese		n other villages	
	Change in industry increase factory, Tradinget			
	Human conflict Ethnic, Administrativee	tc nil.		
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc	.)		
00	Town is on the slope of mountain and flat area.)		
				·
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
			T	
10	Current Water Coverage (%) (by water consumption at faucets)		37%	
	(2m3*7PF+0.5m3*37HC+0m3*0BC)=32.5m3/day 32.5m3/20Lpcd.= 1625persons 1625p	ersons / 4,446 j	population = 129% 58%	
	Current Water Coverage (%) (by data of water source product)) (0.6L.sec.*3600sec.*24hrs)=51840L/day 51840/20Lcd=2592 persos 2592persons/4	116manulation		
11	Water Potential $(A/B/C/D/E)$	+40p0pulation	=36% B	
11	water folicitian (A/B/C/D/L)		В	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	ot Approached	B / A	
1.2	A=Road Width > 6 m $/$ B= $>3\sim6$ m $/$ C= $1\sim3$ m $/$ D= <1 m	11		
	Access road is Asphalt & Base course 20km from Asela. (=16+4km)			
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	N. W., G. I. Di			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced to	echnology. The	small town is on the	
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
10	Water Aid			
				·
17	Main Ethnic Group	Amhara, Oro	omo	
18	Health conditions			
	-1 Medical facilities in Town		r, Private clinic, Drug store	
	-2 Nearest other facilities from Town km	23		
	-3 Main patients of water born diseases persons / year	Typhoid	15	
10	Main and a single	Trade, Farm		
19	Main economic activities	Trade, Farin	ing	·
20	Particular comments :			
20	Resident buy water from water saler who caming from Gonde Town (6km from Boni Jawi).			
1	The existing water source (spring) is not staible by seasonal water product. It is not enough	to supply.		
1		****		
21	Remarks : Mr. Tassew Zeleke Plan & prog			
Ī	Mr. Musa Geleta Boru Jwv			
	Mr. Husen Mohamed Engi			
	Mr. Zenebe Abetew Water	system technic	ian, Mob. 0912115094	لــــــــا
Men	no (Town sketchetc.):			
	OF LED' CO. C.			,
ļ	05-15 Distribution Type (Spring No.1)			ļ
	PVC 4"=350m PVC 1"=1,550m PVC 2"=100m Total I = 2,050m			
	PVC 2"=1,550m PVC 3/4"=100m Total L=3,050m			
ļ	06-05 Water tariff			7
l	$0^{\circ}-0^{\circ}$ water tall 1° $0^{\circ}-5^{\circ}$ 3° 3° 1°			†
	6~10m3 = 3.50birr/m3			t
	. ,			4
1	-			
	-			
	-			
	- -			

O-12 Boru Jawi



O-20 Abosa

	Oromia Region				11 /30)
	Name of small town :		Abosa		O- 20	
	Name of Woreda :		لا dami Tulu & Jido K	ombolch	OW- 16	
	Name of Zone :		East Shewa	a	OZ- 03	
	Profile ite	ms			Profile	
01	Population					
	Town male / female		by OWRB	1,786	1,792	3,578
	Woreda male / female	e / total	by Census 2007	71,883	70,978	142,861
<u>02</u>	percentage of Town in Woreda Town Coordination UTM (Adino	dan)	Easting / Northig / Alt.	469693	886574	2.5% 1,677
-	Town Status	Jan)	Easting / Northing / Art.	Town administr		1,077
	Water Source					
	04-01 Water source		Type, No.	Well * 1no.		
	04-02 Well spec.	Dept	h., Casing Dia., S.W.L, Yield		?m, 4.7L/sec.	
	04-03 Method of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.		Type, Yield	Motorized pum		
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation hours	,	Type, Kva daily hours, time	Commercial Ele 06:00~, 10:45~, 14:0		Total 2hre
	04-06 Duration of water draw (Operation hours))	Iron, Fluorideetc.	Fluoride ?	0~, 18.00~ 45IIIII.ea	i Totai Siiis.
	04-08 Other technical specimen		non, ruonaeee.	Truoride :		
	o i do duel tecimien specimen					
05	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 pr	oject	
	05-04 Intake Type			Well		
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reserv	·oin)	Dina matarial lanath	1no. GIP, 3", 200m		
	05-06 Conveyance Type (water source ~ Reserv	(OII)	Pipe material, length 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 05-15 Distribution Type		Pressure, Gravity	nil. GIP, 2", 400m,	DVC 2" 900	
	05-15 Distribution Type 05-16 Power to distribute		Pipe material, length Pressure, Gravity	Gravity	PVC 2 , 800m	l .
	05-17 Structure Type of water point (Public Fau	cet PF)	RC, Masonry, Pipeetc.			
	05-18 Number of water point (Public Faucet, PF		no.	4		
	05-19 Number of faucet at a water point (Public		no.	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)			19		
	05-22 Average of daily water consumption of House	Connection(HC)	m3/day	0.317m3/day		
	05-23 Number of Business Conection (BC)	E	1.C. CC H :: 1	2		
	05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business		l, Gov. office, Hospitaletc m3/day	School, Health 0.317m3/day	center	
	05-26 Other technical specimen	Connection (BC)	III3/day	0.517III5/day		
	20 Suici technicai specimen					
)6	Operation and Maintenace					
	06-01 Organization's name			Water committe		
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc	Community bas	sed organizatio	n
	06-03 Number of thechnical staff			1		
	06-04 Principal works of technical staff			Pump operation, P	lumbing, Water m	neter read
	06-05 Number of the financial staff			5 Water sale, Bill		
	06-06 Principal works of financial staff 06-07 Categories of water tariff	W/ D	oint, House Connectionetc			
	06-07 Categories of water tariff 06-08 Water tariff rate	w.P	om, mouse Connectionetc	1 Omit, 1100S	c 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/montl	n	
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.			
	06-11 Principal spare parts		filter, Fuel filter, Pipesetc			
	06-12 Method in case of serious repair	by Regional	office, Private companyetc		m a d	
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10	by O	nization, Gov., Donorsetc	Pumpmotor but Water committee		
	06-15 Other technical specimen	by Orga	anzadon, Gov., Donoisetc	, ,, atc. committe		
	July Comment opening					

O-20 Abosa

Data 7.2 Small Town Profile of Oromia Region

07	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.		age, Fluoride	
	Water supply facility	Decrepit, leakage, design failureet	Pipe network	k is limited.	
	07-02 Finalcial		N-4 J		
	Management Rate of water tarrif collection		Not grasped nil.		
	Personnel expenses		nil.		
	Shourtage of budget to execute operation &	maintenace		dget for O&M	
	07-03 Other incidential, Special specimen	maniciaec	Bilorage ou	agot for Occili	
	Increase in population to consume water	coming from other towns, villagesetc	nil.		
	Change in industry	increase factory, Tradingetc			
	Human conflict	Ethnic, Administrativeetc	nil.		
	07-04 Other specimen				
8		taion, bottom of valley, Top of ridgeetc.)		
	Town is on the flat area. (bordering Lake Zeway in	the east at about 200m.)			

19	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
	Tuoto III				
0	Current Water Coverage (%) (by water consumption	on at faucets)		32%	
	(4m3*4PF+0.317m3*19HC+0.317*2BC)=22.7m3	/day 22.7m3/20Lpcd.= 1,135 persons 1,	135persons / 3		
	Current Water Coverage (%) (by data of water sou			189%	
	((4.7L)*3600min*8hrs)=135360L 135360L/20L=	=6768persons 6768persons/3578populatio	n=185%	T	_ _
1	Water Potential (A / B / C / D / E)			C	
_	Association (A/D/C/D/D) A A LLC C	se Course/C=Sub Grade/D=Only Dry Season/E=No	4 A mag1 1	A / A	\dashv
2		se Course/C=Sub Grade/D=Only Dry Season/E=No n > 6m /B= >3~6m / C= 1~3m / D= <1m	t Approached	A/A	
	Access is asphalt road 10km from Zway * Refer to		ocibility"		
3	Manpower Capability of Water Supply Manageme		ssibility	10	-
5	wanpower Capability of Water Supply Manageme	in by water office points		10	_
					-
4	Dgree of urgency (A / B / C / D / E)				
4	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				_
			ology water tr	reatment facility to remo	ove
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa		ology water ti	L reatment facility to remo	ove
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te		ology water tr	reatment facility to remo	ove
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's		ology water tr	reatment facility to remo	ove
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te			reatment facility to remo	ove
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's			reatment facility to remo	ove
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. Other Donors, NGO's Main Ethnic Group		Oromo	reatment facility to remo	ove
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Oromo Health Cente	er, Drug store	ove
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	rrains, construction work is not difficult.	Oromo Health Center 100 Mararia	er, Drug store	ve
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rrains, construction work is not difficult.	Oromo Health Cente 100 Mararia Typhoid	er, Drug store 3,500 505	ve
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rrains, construction work is not difficult.	Oromo Health Center 100 Mararia Typhoid Dysentery	er, Drug store 3,500 505 260	ove
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rrains, construction work is not difficult.	Oromo Health Centrology 100 Mararia Typhoid Dysentery Cholera	er, Drug store 3,500 505 260 50	ove
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rrains, construction work is not difficult.	Oromo Health Central 100 Mararia Typhoid Dysentery Cholera Diarrhea	er, Drug store 3,500 505 260 50 25	ve
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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	rrains, construction work is not difficult.	Oromo Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others	er, Drug store 3,500 505 260 50	ove
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	rrains, construction work is not difficult.	Oromo Health Central 100 Mararia Typhoid Dysentery Cholera Diarrhea	er, Drug store 3,500 505 260 50 25	ve
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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	rrains, construction work is not difficult.	Oromo Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others	er, Drug store 3,500 505 260 50 25	ve
15 16 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te 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 Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
5 6 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te 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: In accordance with the result of water quality survees	km persons / year	Oromo Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
.5 .6 .7 .8 .9 .9	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality survey water quality around this area.	km persons / year	Oromo Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te 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: In accordance with the result of water quality survees	km persons / year	Oromo Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming	3,500 505 260 50 25 2,000	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality survey water quality around this area.	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Center 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is described.	er, Drug store 3,500 505 260 50 25 2,000	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality survey water quality around this area.	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality survey water quality around this area.	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
.5 .6 .7 .8 .8 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
.5 .6 .7 .8 .8 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
.5 .6 .7 .8 .8 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is do	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
.5 .6 .7 .8 .8 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is down. Chairman	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
15 16 17 18 20 21	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is down. Chairman	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
.5 .6 .7 .8 .9 .20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is down. Chairman	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is down. Chairman	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is down. Chairman	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the generally flat te. 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: In accordance with the result of water quality surve water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. Th	Oromo Health Cente 100 Mararia Typhoid Dysentery Cholera Diarrhea others Farming erefore, it is down. Chairman	er, Drug store 3,500 505 260 50 25 2,000 difficult to develop good Mob 0913565610	

Data 7.2 Small Town Profile of Oromia Region

O-20 Abosa



O-22 Adami Tulu

	Oromia Region				12 /30)	
	Name of small town	:	Adami 1		O- 22		ì
	Name of Woreda	:	\dami Tulu & Jid	o Kombolch	OW- 16		i
	Name of Zone	:	East Sh	ewa	OZ- 03		i
		Profile items			Profile		
L	Population						i
	Town	male / female / total	by OWRB	4,006	4,160	8,166	ı
	Woreda percentage of Town in Wo	male / female / total	by Census 2007	71,883	70,978	142,861 5.7%	ı
,	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	467669	869137	1,665	
	Town Status	C TW (Admidan)	Easting / Horting / 7th.	Municipality	007137	1,003	
1	Water Source						
	04-01 Water source	***************************************	Type, No.	Well*2nos.	****		
	04-02 Well spec.	Depth.	, Casing Dia., S.W.L, Yield				
- 1	04-03 Method of water draw		Pump, Gravity	Pump			
	04-04 Pump Spec. 04-05 Power source for motorize	od auma	Type, Yield Type, Kva	Motorized Commercial Elec.			
- 1	04-05 Power source for motorize 04-06 Durartion of water draw (daily hours, time	Not grasped			
	04-07 Water quality	Operation nours)	Iron, Fluorideetc.	high Floride Well No.1	8.01mg/l . Well	No.2 3.5mg/	
	04-08 Other technical specimen		11011, 1 1401140				
Ì					***************************************		
	Existing Water Supply Facilities	3					_
	05-01 Established year		(Gregorian calendar)	2008			
- 3	05-02 Financial of implementati		Donor's name	OWRB &LVIA			
- 1	05-03 Name of implementation	(Project name)		Adami Tulu water proj	ject		
- 1	05-04 Intake Type 05-05 Intake No.			Well 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	source ~ Reservoir)	Pressure, Gravity	Pressure	700m (10tai 1,7.	72111)	
- 1	05-08 Water treatment		Disinfection, Ironetc				
	05-09 Water treatment capacity		m3/day	nil.	***************************************		
	05-10 Water reserver type		Туре	GR			_
	05-11 Water reserver No.		no.	1no.			
- 3-	05-12 Water reserver Capacity		m3	50m3			_
- 1	05-13 Transmission Type (Boos	ter pump Stn. ~ Reservo		nil.			
	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	nil. See below memo			
- 3	05-16 Power to distribute		Pressure, Gravity	Gravity			
- 1	05-17 Structure Type of water p	oint (Public Faucet PF)					_
	05-18 Number of water point (P		no.	11 (1PF is not function	n)		
	05-19 Number of faucet at a wat		PF no.	6	***************************************		
ĺ	05-20 Average of daily water co	onsumption at a water po	int m3/day	8.0m3/day			
	05-21 Number of House Connec			701			
ŀ	05-22 Average of daily water consump) m3/day	0.26m3/day			
	05-23 Number of Business Cone		C CC II '- I	13			
	05-24 Type of Business Connec 05-25 Average of daily water consumpti			12m3/day			
ķ	05-26 Other technical specimen) III3/day	12m3/day			
ŀ	25 Care technical specificil						_
ı	Operation and Maintenace						_
	06-01 Organization's name			Town water office			
	06-02 Type of organization		onal, Zone, Enterpriceetc	Zone			
- 3	06-03 Number of thechnical stat			4	1 .		
ŀ	06-04 Principal works of technic			Pump operation, Plum	oing		_
- 1	06-05 Number of the financial s 06-06 Principal works of financi			Water meter read, Bill	***************************************		
	06-07 Categories of water tariff		nt, House Connectionetc.	W. Point, H. connection		n	
	06-08 Water tariff rate	,,, <u>,</u> , ,	,	2, 21. Comisetto	,		
Ì	Water point (Public fauce	t)	Birr/L, 20L	0.5birr/20L			
Ì	House connection		Birr/m3	See below memo			
	Business connection		Birr/m3	ditto			
ŀ	06-09 Average monthly income		Birr/month	29,400birr/month			
	06-10 Procurement of spare part		onal Cap. Reg. Capetc.				_
	06-11 Principal spare parts		lter, Fuel filter, Pipesetc				_
- 1	06-12 Method in case of serious		ice, Private companyetc				
	06-13 Principal serious repair w 06-14 Fund for above 6-09, 6-10		zation, Gov., Donorsetc.	Pump failure Water supply service			
- 1	06-15 Other technical specimen		zanon, Gov., Donoisetc.	rraici suppiy service			
- 11	oo 15 outer teeminear specificin			L			

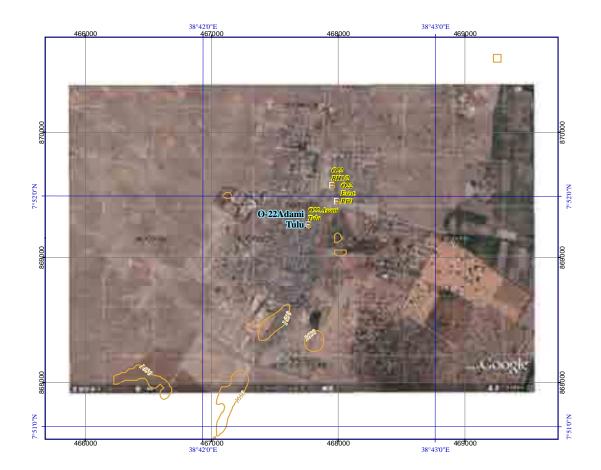
O-22 Adami Tulu

Data 7.2 Small Town Profile of Oromia Region

07 F	Problem of actual town water supply		1		
	07-01 Technical				
F		ntity, Qualityetc.	Water shortage		
r	Water supply facility Decrepit, leakage,				
C	07-02 Finalcial				
	Management		Not grasped		
	Rate of water tarrif collection		Not grasped		
	Personnel expenses		Not grasped		
L	Shourtage of budget to execute operation & maintenace		Shortage budge	et for O&M	
0	07-03 Other incidential, Special specimen				
<u> </u>	Increase in population to consume waterning from other to				
L.		tory, Tradingetc.	<u> </u>	er & Wine farm	
L		dministrativeetc	nil.		
0	07-04 Other specimen				
	Geographical condition (Slope on mountaion, bottom of valley,	Top of ridgeetc.)		
μ.	Town is on the flat area.				
ļ					
20.	N I Cold OF The Mark 10				
	Necessary Institution (Facility, Material)				
ŀ	Refer to Chapter 4 "Table 4.7"				
-					
10 4	Current Water Coverage (%) (by water consumption at faucets)			258%	!
	(8.3m3*10PF+0.26m3*701HC+12.0m3*13BC)=421.3m3/day	421 3m3/201 pod –	21065 parsons		
	(8.3m3*10PP+0.26m3*701HC+12.0m3*13BC)=421.3m3/day Current Water Coverage (%) (by data of water source product))		21005 persons	21065persons / 8,166 population 106%	ıı — ∠.
	((3.5L+2.5L)*3600min*8hrs)=172800L 172800L/20L=8640pe		ıs/8166nonulatio		
	Water Potential $(A/B/C/D/E)$	visous on-oberson	, o roopopuialio	C	-
. 1 1	macriotenda (A/D/C/D/E)				
12 4	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Gra	ade/D=Only Dry Season	/E=Not Approached	d A/A	
1	A=Road Width > 6 m /B= > 3 ~6				
7	Access road is asphalt road 8km from Zway. * Refer to Chapter			ihility"	
	Manpower Capability of Water Supply Management by Water C		gorres or access.	14	
13	manpower capacities of water supply management by water c	rifice point)			
<u> </u>					
14 Г	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
	AT WILL GO I DI				
]	New Water Supply Plan The facility can be designed in an Ethiopian standard, however, if the facility can be designed in an Ethiopian standard, however, if the facility can be generally flat terrains, constru			water treatment facility to remo	ove
16 C				water treatment facility to remo	ove
16 C	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's				ove
16 C V	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group		ifficult.		ove
16 C V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions		Oromo, Gurago		ove
16 C V	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town		ifficult.	e	ove
16 C V	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	action work is not d	Oromo, Gurago	e 7	ove
16 C V	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town		Oromo, Gurage Drug store Mararia	7 1,000	ove
16 C V	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	action work is not d	Oromo, Gurage Drug store Mararia Dysentery	7 1,000 100	ove
16 C V	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid	7 1,000 100 80	ove
116 C N 117 M 118 H	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases person	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea	7 1,000 100 80 20	ove
116 C N 117 M 118 H	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid	7 1,000 100 80 20	ove
116 C V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the proo	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea	7 1,000 100 80 20	ove
116 C N 117 M 118 F 118 F 119 M 119 M 120 F 120	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the proo	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea	7 1,000 100 80 20	ove
116 C N 117 M 118 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the proo	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea	7 1,000 100 80 20	ove
116 C N 117 M 118 F 118 F 119 M 119 M 120 F 120	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the proo	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea	7 1,000 100 80 20	ove
116 C N 117 M 118 H 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, in Fluoride. The small town is on the generally flat terrains, construction of the property of	action work is not d	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea	7 1,000 100 80 20	ove
116 C N 117 M 118 H 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction	ons / year Wondimu Jote May Gebissa Haile Wate	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 CV V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction	ons / year Wondimu Jote May Gebissa Haile Wate	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction. Other Donors, NGO's World bank, LVIA Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases personal main patients of water born diseases. Main economic activities Particular comments: New implementation will be done by other donors. Remarks: Mr. 4 Mr. 4 Other Town sketchetc.):	ons / year Wondimu Jote May Gebissa Haile Wate	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the construction of the construct	ons / year Wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the proo	ons / year Wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the construction of the construct	ons / year Wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 C V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction of the	ons / year Wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 C V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction of the	wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 airman Mob. 091322392712260	1
116 C V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction of the	ons / year Wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade or of the town as ar Committee channe head of whee. / 7.5kw	7 1,000 100 80 20 e administration Mob. 091226045 tairman Mob. 091322392712260 //ater committee 0910831709	1
116 C V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction of the	wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e administration Mob. 091226045 tairman Mob. 091322392712260 //ater committee 0910831709	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the conditions of the generally flat terrains, construction of the conditions of the conditio	wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade or of the town as ar Committee channe head of whee. / 7.5kw	7 1,000 100 80 20 e administration Mob. 091226045 tairman Mob. 091322392712260 //ater committee 0910831709	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the property of th	wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin GL-14m / 3.5L/seGL-7?m / 2.5L/se "=350m	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade or of the town as ar Committee channe head of whee. / 7.5kw	7 1,000 100 80 20 e administration Mob. 091226045 tairman Mob. 091322392712260 //ater committee 0910831709	1
116 C N 117 M 118 H 119 M 119	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the conditions of the generally flat terrains, construction of the conditions of the conditio	wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin GL-14m / 3.5L/seGL-7?m / 2.5L/se "=350m	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade or of the town as ar Committee channe head of whee. / 7.5kw	7 1,000 100 80 20 e administration Mob. 091226045 tairman Mob. 091322392712260 //ater committee 0910831709	1
116 C V V V V V V V V V V V V V V V V V V	The facility can be designed in an Ethiopian standard, however, Fluoride. The small town is on the generally flat terrains, construction of the proof of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small town is on the generally flat terrains, construction of the small terrains, construction of the	ons / year Wondimu Jote May Gebissa Haile Wate Challa Dechassa Fin	Oromo, Gurage Drug store Mararia Dysentery Typhoid Diarrhea Farming, Trade	7 1,000 100 80 20 e	15

Data 7.2 Small Town Profile of Oromia Region

O-22 Adami Tulu



O-28 Jido

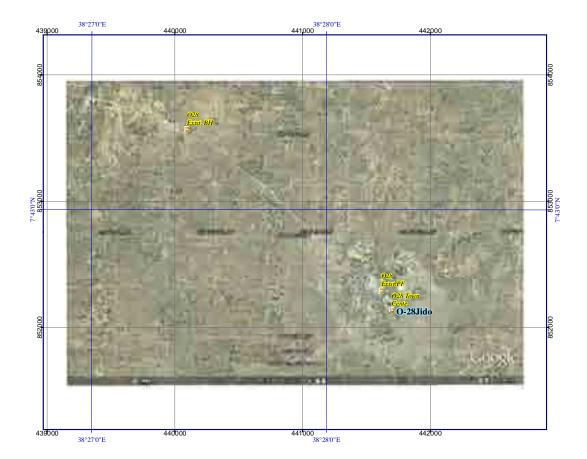
	Oromia Region		13 /30)
	Name of small town :	Jido	O- 28	,
	Name of Woreda :	لا dami Tulu & Jido K	ombolch OW- 16	
	Name of Zone :	East Shewa	OZ- 03	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by OWRB	1,307 1,352	2,659
	Woreda male / female / total	by Census 2007	71,883 70,978	142,861
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	441606 852012	1.9% 1,642
_	Town Status	Easting / Norting / Titt.	Town administration	1,042
	Water Source			
	04-01 Water source	Type, No.	Well * 1no.	
		oth., Casing Dia., S.W.L, Yield		/sec.
	04-03 Method of water draw	Pump, Gravity	Pump Motorized pump	
	04-04 Pump Spec. 04-05 Power source for motorized pump	Type, Yield Type, Kva	Commercial Elec., Stand by C	Canarator
	04-06 Durartion of water draw (Operation hours)	daily hours, time	09:00-02:00 (17hrs./day)	Jenerator
	04-07 Water quality	Iron, Fluorideetc.	good	
	04-08 Other technical specimen		·····	
05	Existing Water Supply Facilities		2007	
	05-01 Established year	(Gregorian calendar)	2005	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	Ethiopia Delopment Fund Leliso denbe water supply pro	viect
	05-04 Intake Type		Well	geci
	05-05 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.	
	05-10 Water reserver type	Type	ER 2nos.	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	2nos. 10m3*2nos.	
	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, 3", 2,312m, 2" 20m	
	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)	no.	6	
	05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF)	no.) m3/day	16m3/day	
	05-21 Number of House Connection (HC)) mis/day	8	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	1.56m3/day	
	05-23 Number of Business Conection (BC)		3	
		ol, Gov. office, Hospitaletc.	Mosque, School, Restrant	
	05-25 Average of daily water consumption of Business Connection (BC) m3/day	0.8m3/day	
	05-26 Other technical specimen			
06	Operation and Maintenace			
00	06-01 Organization's name		Water committee	
	<u> </u>	egional, Zone, Enterpriceetc.		n
	06-03 Number of thechnical staff		2	
	06-04 Principal works of technical staff		Pump operation, Plumbing	
	06-05 Number of the financial staff		7	D'II
	06-06 Principal works of financial staff	Doint House Comment	Water meter read, Water sale, W. Point, House connection	Bill
	06-07 Categories of water tariff W. 06-08 Water tariff rate	Point, House Connectionetc.	w. roint, nouse connection	
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L	
	House connection	Birr/m3	see below memo	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	8,000birr/month	
		n, Zonal Cap. Reg. Capetc.	· · · · · · · · · · · · · · · · · · ·	
		il filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair by Regional 06-13 Principal serious repair with 5-10 years	office, Private companyetc	Woreda Pumpmotor burned	
		ganization, Gov., Donorsetc.		
	06-15 Other technical specimen			

O-28 Jido

-		T		
07	Problem of actual town water supply			
	07-01 Technical			ļ
	Water source Quantity, Qualityetc.	Water shortage		<u> </u>
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		!
	07-02 Finalcial			<u> </u>
	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			:
				i
		Not grasped		
	07-04 Other specimen			
_				
)8	Geographical condition (Slope on mountaion, 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 (%)		148%	!
	(16m3*4PF+1.56m3*8HC+0.8*3BC)=78.9m3/day 78.9/20Lpcd.= 3,945persons 3,945person	ons / 2,659 population =	= 148%	L
	Current Water Coverage (%) (by data of water source product))		298%	
	((5.5L)*3600min*8hrs)=158400L 158400L/20L=7920persons 7920persons/2659population	n=298%		<u> </u>
1	Water Potential $(A/B/C/D/E)$		В	
				i
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	Approached	B/B	
-	A=Road Width > 6 m /B= >3 ~6m / C= 1 ~3m / D= <1 m		-, -	l
	Access is Sub grade road 46km from Zway. * Refer to Chapter 5 "Table 5-7: Categories of ac	cessibility"		ļ
2	Manpower Capability of Water Supply Management by Water Office point)	Costonity	13	\vdash
3	Manpower Capability of water Supply Management by water Office point)		15	
				ļ
_				
4	Dgree of urgency (A / B / C / D / E)	***		ļ
	Refer to Chapter 5 & 7			ļ
	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, however, it may be required high technology	ology water treatment f	acility to remove	
6	The facility can be designed in an Ethiopian standard, however, it may be required high technical Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's	ology water treatment f	acility to remove	
6	Fluoride. The small town is on the generally flat terrains, construction work is not difficult.	ology water treatment f	acility to remove	
	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's		acility to remove	
	Fluoride. The small town is on the generally flat terrains, construction work is not difficult.	Oromo, Silte	acility to remove	
7	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group		acility to remove	
.7	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions	Oromo, Silte		
.7	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo, Silte Health Center, Private		e
.7	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86	clinic, Drug stor	e
.7	Fluoride. The small town is on the generally flat terrains, construction work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo, Silte Health Center, Private 86 Mararia 5,400	clinic, Drug stor	e
.7	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500	clinic, Drug stor	e
.7	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480	clinic, Drug stor	e
.7	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15	clinic, Drug stor	e
7	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15	clinic, Drug stor	e
7 8	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8	Fluoride. The small town is on the 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	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 9 0	Fluoride. The small town is on the 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 Main economic activities Particular comments: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 9 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 9 0	Fluoride. The small town is on the 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 Main economic activities Particular comments: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 9 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 0	Fluoride. The small town is on the 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 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)	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	ee
7 8 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 0	Fluoride. The small town is on the 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 Main economic activities 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)	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	ee
7 8 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season)	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) 10 (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	ee
7 8 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) 10 (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 0	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 9 0 1	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
7 8 9 0 1	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	ee
7 8 9 20	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	ee
.7 .8 .9 .20	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
17 18 19 20	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e
17 18 19 20	Fluoride. The small town is on the 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: Water fee of cattle trough is 0.15birr/cattle/day. 33,000bir/year Remarks: Access is un pavement road. (Muddy during rainy season) no (Town sketchetc.): 06-08 Water tariff rate 0~5m3 = 3.00birr/m3 31m3~ = 5.00birr/m3 6~10m3 = 3.50birr/m3 11m3~ = 5.90birr/m3	Oromo, Silte Health Center, Private 86 Mararia 5,400 Typhoid 500 Dysentery 480 Cholera 15 others 1,500	clinic, Drug stor	e

Data 7.2 Small Town Profile of Oromia Region

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O-29 Katar Genet

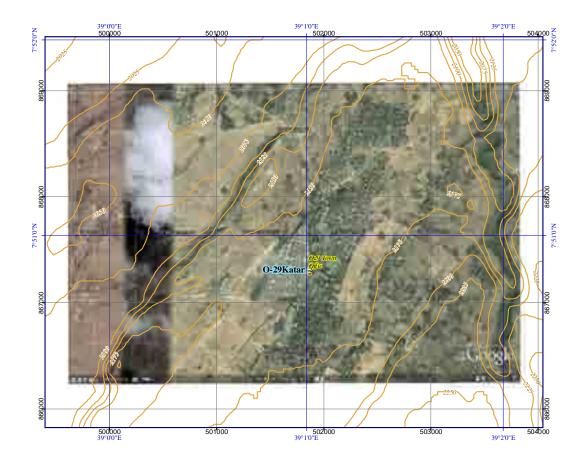
	Oromia Region			14 /3	0	
	Name of small town :	Katar gene	t	O- 29		
	Name of Woreda :	Tiyo		OW- 03	3	
	Name of Zone :	Arsi		OZ- 01		
	Profile items	7(101		Profile		,
01	Population					•
	Town male / female / total	by OWRB	1,943	2,010	3,953	
	Woreda male / female / total	by Census 2007	43,443	43,284	86,727	
	percentage of Town in Woreda				4.6%	
	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	501766 Town administr	867164	2,195	
	Town Status Water Source		Town administr	ation		
04	04-01 Water source	Type, No.	nil. (Stream Wa	ater)		
		th., 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	nil. nil.			
	04-07 Water quality 04-08 Other technical specimen	Iron, Fluorideetc.	n11.			
	04-00 Other reclinical specificin					
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.		nil.			
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.			
	05-07 Power to convey 05-08 Water treatment	Pressure, Gravity Disinfection, Ironetc.	nil. 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	Pipe material, length	nil.			
	05-16 Power to distribute	Pressure, Gravity	nil. nil.			
	05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	nil.			
	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)		nil.			
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.			
	05-23 Number of Business Conection (BC)		nil.			
		ol, 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					
00	06-01 Organization's name		nil.			
		gional, 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.			
	06-06 Principal works of financial staff	· · · II	nil.			
	06-07 Categories of water tariff W.P	oint, House Connectionetc.	nıl.			
	06-08 Water tariff rate Water point (Public faucet)	Rirr/I 20I	nil.			
	House connection	Birr/L, 20L Birr/m3	nil.			
	Business connection	Birr/m3	nil.			
	06-09 Average monthly income by water tariff	Birr/month	nil.			
		, Zonal Cap. Reg. Capetc.	nil.			
	06-11 Principal spare parts Oi	l filter, Fuel filter, Pipesetc	nil.			
		office, Private companyetc				
	06-13 Principal serious repair with 5-10 years		nil.			
		nization, Gov., Donorsetc.	nıl.			
	06-15 Other technical specimen					
I						

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		OWITT TOILE OF OTOIL			
07	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.	nil.		
		ecrepit, leakage, design failureet	cnil.		
	07-02 Finalcial				
	Management		nil.		
	Rate of water tarrif collection		nil.		
	Personnel expenses		nil.		
	Shourtage of budget to execute operation & mainte	nace	nil.		
	07-03 Other incidential, Special specimen		ļ.,		
		ning from other towns, villageset			
	Change in industry	increase factory, Tradingetc			<u> </u>
	Human conflict	Ethnic, Administrativeet	nil.		
	07-04 Other specimen				
00	Clilliti (Cl		1		
00	Geographical condition (Slope on mountaion, b Town is on the flat area.	oottom of valley, Top of ridgeetc	.)		
	Town is on the mat area.				
00	Necessary Institution (Facility, Material)				_
09	Refer to Chapter 4 "Table 4.7"				
	to Campor - Turio III				
10	Current Water Coverage (%)			%	
-				, , , ,	
	Current Water Coverage (%) (by data of water source pro			%	
	((??L)*??min*??hrs)=??L ??L/20L=??persons ??persons				
11	Water Potential (A / B / C / D / E)	• •		В	
				,	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Cours	se/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B / B	
		/B= >3~6m / C= 1~3m / D= <1m		•	
	Access road is Asphalt & Sub grade 33km from Asela. (=	13+20km from Asela)			
13	Manpower Capability of Water Supply Management by V	Vater Office point)		10	
14	Dgree of urgency (A/B/C/D/E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
15		ichie not raquirad more advanced te	chnology The	emall town is on the	
15	The facility can be designed in an Ethiopian standard, wh	ichis not required more advanced te	chnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult.	ichis not required more advanced te	chnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult. Other Donors, NGO's	ichis not required more advanced te	chnology. The	small town is on the	
	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult.	ichis not required more advanced te	chnology. The	small town is on the	
16	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6	ichis not required more advanced te			
16	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult. Other Donors, NGO's	ichis not required more advanced te	chnology. The		
16 17	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group	ichis not required more advanced te			
16 17	The facility can be designed in an Ethiopian standard, wh generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	ichis not required more advanced te	Amhara, Oro	omo	
16 17	The facility can be designed in an Ethiopian standard, wh 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		Amhara, Oro	omo er, Private clinic, Drug	store
16 17	The facility can be designed in an Ethiopian standard, wh 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	Amhara, Oro	omo er, Private clinic, Drug	store
16 17	The facility can be designed in an Ethiopian standard, wh 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		Amhara, Oro Health Cente 35 Typhoid	omo er, Private clinic, Drug 8,000	store
16 17	The facility can be designed in an Ethiopian standard, wh 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	Amhara, Oro Health Cente 35 Typhoid Diarrhea	omo er, Private clinic, Drug 8,000 7,200	store
16 17	The facility can be designed in an Ethiopian standard, wh 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	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera	omo er, Private clinic, Drug 8,000 7,200 600	, store
16 17	The facility can be designed in an Ethiopian standard, wh 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	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria	omo er, Private clinic, Drug 8,000 7,200 600 50	; store
16 17 18	The facility can be designed in an Ethiopian standard, wh 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	km	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria Others	er, Private clinic, Drug 8,000 7,200 600 50 2,900	s store
16 17 18	The facility can be designed in an Ethiopian standard, wh 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	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria	er, Private clinic, Drug 8,000 7,200 600 50 2,900	store
16 17 18	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities	km	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria Others	er, Private clinic, Drug 8,000 7,200 600 50 2,900	store
16 17 18	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments:	km persons / year	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900	
16 17 18	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking	km persons / year g drinking water from irrigation cana	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	omo er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese	km persons / year g drinking water from irrigation cana	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	omo er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund	km persons / year g drinking water from irrigation cana	Amhara, Orc Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	omo er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks:	km persons / year g drinking water from irrigation cana	Amhara, Oro Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking the resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc	km persons / year g drinking water from irrigation cana irrigation project around this town, of	Amhara, Oro Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation cana irrigation project around this town, of	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	!
16 17 18 19 20	The facility can be designed in an Ethiopian standard, wh 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 Main economic activities Particular comments: Town is JICA Irrigation project area. Residents are taking The resident of this town, where is executed the Japanese fund Remarks: Mr. Gossa Girma Acc Mr. Aubuna Butta Re Mr. Genesa Negassa I	km persons / year g drinking water from irrigation canairrigation project around this town, of the countant of town water supply system Collected 0913316919	Amhara, Ord Health Cente 35 Typhoid Diarrhea Cholera Malaria Others Farming, Tra	er, Private clinic, Drug 8,000 7,200 600 50 2,900 ade	

Data 7.2 Small Town Profile of Oromia Region

O-29 Katar Genet



O-30 Lemo Sirba

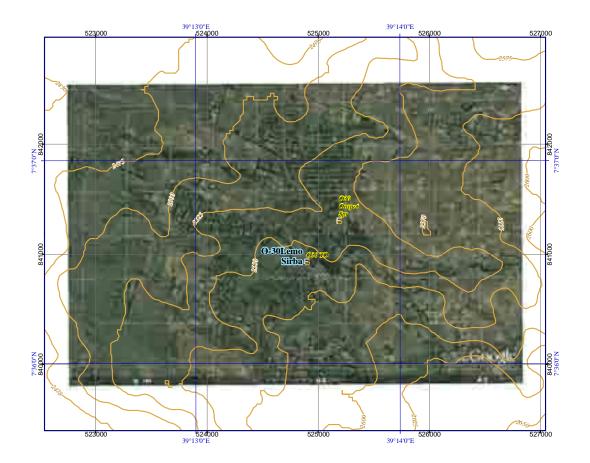
C	Promia Region				15 /30	
	me of small town	:	Lemo Sirba	1	O- 30	
Nar	me of Woreda	:	Limana Bilbi	lo	OW- 20	-
Nar	me of Zone	:	Arsi		OZ- 01	
		Profile items			Profile	
1 Popu						
	Town	male / female / total	by OWRB	2,774	2,816 5,590	
	Woreda	male / female / total	by Census 2007	not listed	not listed not listed	
)2 Town	percentage of Town in Worn n Coordination	UTM (Adindan)	Easting / Northig / Alt.	524802	#VALUE! 84006 2,554	_
03 Town		O I W (Adilidali)	Easting / Norting / Ait.	Town adminis		+
	er Source			10 1111 441111111		
04-01	1 Water source		Type, No.	Spring*2nos.		
	2 Well spec.	D	Pepth., Casing Dia., S.W.L, Yield			
ļ	3 Method of water draw		Pump, Gravity	Gravity, On-sp	oot	
	4 Pump Spec.		Type, Yield	nil.		_
	5 Power source for motorized 6 Durartion of water draw (O		Type, Kva daily hours, time	nil.	rs./day as actual use)	+
	7 Water quality	peration nours)	Iron, Fluorideetc.	good	is./day as actual use)	
	8 Other technical specimen		non, radrideetc.	good		
	· · · · · · · · · · · · · · · · · · ·					_
5 Exist	ting Water Supply Facilities					I
	1 Established year		(Gregorian calendar)	1998		I
	2 Financial of implementation		Donor's name	Red cross	_	1
ļ	Name of implementation (P	roject name)		Lemo sirba wa	ater project	↓
	4 Intake Type			Spring		_
	5 Intake No.	Dogowysia)	Ding material length	nil.		+
	6 Conveyance Type (Water so 7 Power to convey	ource ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.		
***************************************	8 Water treatment		Disinfection, Ironetc.	nil.		-
	9 Water treatment capacity		m3/day	nil.		+
	0 Water reserver type		Type	nil.		†
05-1	1 Water reserver No.		no.	nil.		
	2 Water reserver Capacity		m3	nil.		
	3 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil.		
·	4 Power to transmit		Pressure, Gravity	nil.		_
	5 Distribution Type		Pipe material, length	nil. nil.		
	6 Power to distribute 7 Structure Type of water poi	nt (Public Faucat PF)	Pressure, Gravity RC, Masonry, Pipeetc.			_
	8 Number of water point (Pub		no.	1 place by On-	-Snot	-
	9 Number of faucet at a water		no.	1	Spor	T
	O Average of daily water cons			Not grasped		_
	1 Number of House Connection			nil.		Ì
	2 Average of daily water consure		C) m3/day	nil.		
	3 Number of Business Conect			nil.		_
	4 Type of Business Connection		hool, Gov. office, Hospitaletc			
L	5 Average of daily water consump	otion of Business Connection (E	3C) m3/day	nil.		
03-20	6 Other technical specimen					_
6 Oper	ration and Maintenace					$^{+}$
	1 Organization's name			Water Commit	ttee	Ť
06-02	2 Type of organization		Regional, Zone, Enterpriceetc	Town		1
06-03	3 Number of thechnical staff			0		
*************************************	4 Principal works of technical			nil.		
	5 Number of the financial stat			1		4
	6 Principal works of financial		V.D.:t. H C	nil.		+
	7 Categories of water tariff 8 Water tariff rate	V	V.Point, House Connectionetc.	1111.		+
00-0	Water point (Public faucet)		Birr/L, 20L	Free		-
	House connection		Birr/m3	nil.		+
	Business connection		Birr/m3	nil.		\dagger
06-09	9 Average monthly income by	water tariff	Birr/month	nil.		1
	O Procurement of spare parts			nil.		T
06-1	1 Principal spare parts		Oil filter, Fuel filter, Pipesetc			
	2 Method in case of serious re	*	nal office, Private companyetc			\prod
	3 Principal serious repair with			nil.		ļ
	4 Fund for above 6-09, 6-10	by O	organization, Gov., Donorsetc.			\downarrow
06-15	5 Other technical specimen			nil.		4
						1

O-30 Lemo Sirba

07	Problem of actual town water supply	l		
07	07-01 Technical			
	Water source Quantity, Qualityetc.	No response		1
	Water supply facility Decrepit, leakage, design failureetc			
	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	Not arramed		
	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 or other specimen	T 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"			
10	Current Water Coverage (%) (by data of consumption at faucet)		32%	
10	(0.5L.sec.*3600sec.*10hrs)*2=36000L/day 36000/20Lcd=1800persos 1800persons/5	590population		
	Current Water Coverage (%) (by water product at wells and/or springs)	ээорорининог	77%	
	(0.5L.sec.*3600sec.*24hrs)*2=86400L/day 86400/20Lcd=4320persos 4320persons/5:	590population		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=Not	Approached	B / B	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
- 10	Access road is Sub grade & Retour road 45km from Asela where is under construction.		10	
13	Manpower Capability of Water Supply Management by Water Office point)		10	
14	Dgree of urgency (A / B / C / D / E)			
17	Refer to the Chapter 6			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology Tho	small town is on the hills	
	construction works is required some ingenuities arround water sources.	illiology. The	sman town is on the mins,	,
	construction works is required some ingentatives arround water sources.			
L				
16	Other Donors, NGO's	.		
16	Other Donors, NGO's nil.			
	nil.	Oromo Amb	nara	
		Oromo, Amh	nara	
17	nil.	Oromo, Amh	nara	
17	nil. Main Ethnic Group	Oromo, Amb		
17	nil. Main Ethnic Group Health conditions			
17	nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	Private clinic		
17	nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Private clinic 46 Typhoid Dysentery	250 100	
17	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	Private clinic 46 Typhoid Dysentery others	e, Drug store	
17	nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Private clinic 46 Typhoid Dysentery	250 100	
17 18	nil. 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	Private clinic 46 Typhoid Dysentery others	250 100	
17 18	nil. 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:	Private clinic 46 Typhoid Dysentery others Farming	250 100 201	
17 18	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 Particular comments: Town office submitted proposal of a water supply project to Arsi Zone Office with the Proj	Private clinic 46 Typhoid Dysentery others Farming	250 100 201 Document on June 2010.	!
17 18	nil. 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:	Private clinic 46 Typhoid Dysentery others Farming	250 100 201 Document on June 2010.	!
17 18 19 20	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 Particular comments: Town office submitted proposal of a water supply project to Arsi Zone Office with the Proj (Project budget 2,290,000birr / Target beneficiary is 3,100persons. / 15Lcpd. / Spring source /	Private clinic 46 Typhoid Dysentery others Farming	250 100 201 Document on June 2010.	!
17 18 19 20	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 Particular comments: Town office submitted proposal of a water supply project to Arsi Zone Office with the Proj (Project budget 2,290,000birr / Target beneficiary is 3,100persons. / 15Lcpd. / Spring source / Remarks:	Private clinic 46 Typhoid Dysentery others Farming	250 100 201 Document on June 2010.	!
17 18 19 20	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 Particular comments: Town office submitted proposal of a water supply project to Arsi Zone Office with the Proj (Project budget 2,290,000birr / Target beneficiary is 3,100persons. / 15Lcpd. / Spring source /	Private clinic 46 Typhoid Dysentery others Farming ect Proposal Total Pipe len	250 100 201 Document on June 2010.	!
17 18 19 20	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 Particular comments: Town office submitted proposal of a water supply project to Arsi Zone Office with the Proj (Project budget 2,290,000birr / Target beneficiary is 3,100persons. / 15Lcpd. / Spring source / Remarks: Town water supply office submitted proposal of new water supply project "	Private clinic 46 Typhoid Dysentery others Farming ect Proposal Total Pipe len	250 100 201 Document on June 2010.	!
17 18 19 20	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 Particular comments: Town office submitted proposal of a water supply project to Arsi Zone Office with the Proj (Project budget 2,290,000birr / Target beneficiary is 3,100persons. / 15Lcpd. / Spring source / Remarks: Town water supply office submitted proposal of new water supply project " The existing water supply facility was constructed by NGO on 1998, which is decrepit at the resisting water supply facility was constructed by NGO on 1998, which is decrepit at the resisting water supply facility was constructed by NGO on 1998, which is decrepit at the resisting water supply facility was constructed by NGO on 1998, which is decrepit at the resisting water supply facility was constructed by NGO on 1998, which is decrepit at the resisting water supply facility was constructed by NGO on 1998, which is decrepit at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply facility was constructed by NGO on 1998, which is decrepted at the resisting water supply fac	Private clinic 46 Typhoid Dysentery others Farming ect Proposal Total Pipe len	250 100 201 Document on June 2010.	!
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Data 7.2 Small Town Profile of Oromia Region

O-30 Lemo Sirba



O-31 Milami

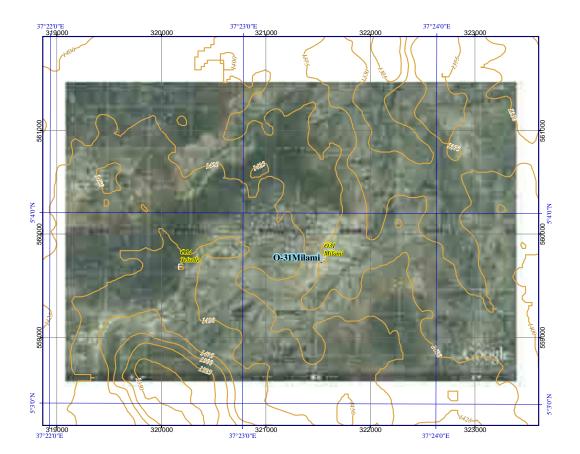
	Oromia Region					16 /3	_
	Name of small town			lilami		O- 3	
	Name of Woreda	:		eltele		OW- 09	9
	Name of Zone	:	B	orena		OZ- 02	2
		Profile items				Profile	
)1	Population						
	Town	male / female / total	by OWRB		2,220	2,290	4,510
	Woreda percentage of Town in Wor	male / female / total	by Census 2007		35,854	33,845	69,699 6.5%
)2	Town Coordination	UTM (Adindan)	Easting / Northig	/ Alt	321466	559600	1,401
	Town Status	C 1 W (Admidan)	Lasting / Horting /	7111.	Municipality	337000	1,401
	Water Source				1		
	04-01 Water source		Type, No.		Well * 1no.		
	04-02 Well spec.		Depth., Casing Dia., S.	W.L, Yield		L-??m, 4.8L/s	sec.
	04-03 Method of water draw		Pump, Gravity		Pump		
	04-04 Pump Spec.		Type, Yield		Mono-pump an		pump
	04-05 Power source for motorized 04-06 Durartion of water draw (O		Type, Kva		Commercial El 06:00-6:20 (20		
	04-06 Durartion of water draw (O)	peration nours)	daily hours, time Iron, Fluoridee	to	good	mm/day)	
	04-07 Water quanty 04-08 Other technical specimen		non, ruondee	ic.	good		
	2. 2.5 Galet common specificit						
)5	Existing Water Supply Facilities						
	05-01 Established year		(Gregorian calend	ar)	1996		
	05-02 Financial of implementation		Donor's name		OWRB		
	05-03 Name of implementation (P	roject name)			Milami water p	roject	
	05-04 Intake Type				Well		
	05-05 Intake No.		D' 1 1	.1	lno.		
	05-06 Conveyance Type (Water so 05-07 Power to convey	ource ~ Reservoir)	Pipe material, leng	gth	GIP, 2", 60m Pressure		
	05-08 Water treatment		Pressure, Gravity Disinfection, Iron	etc	nil.		
	05-09 Water treatment capacity	t to the state of	m3/day		nil.		
	05-10 Water reserver type		Type		GR, ER		
	05-11 Water reserver No.		no.		GR*1no., ER*	lno.	
	05-12 Water reserver Capacity		m3		GR*50m3, ER		
	05-13 Transmission Type (Booste	r pump Stn. ~ Reservoi		gth	GIP, 2*1/2", 1,	200m	
	05-14 Power to transmit		Pressure, Gravity		Pressure		
	05-15 Distribution Type		Pipe material, leng	gth	See below men	10	
	05-16 Power to distribute	ort (Doddie E-mark DE)	Pressure, Gravity	D:	Gravity		
	05-17 Structure Type of water point (Pub 05-18 Number of water point (Pub		RC, Masonry, I	ripeetc.	Mansonry		
	05-19 Number of faucet at a water				4FC*4PF, 2FC	*1 P F	
	05-20 Average of daily water cons			,	2.0m3/day		
	05-21 Number of House Connection				23		
	05-22 Average of daily water consum	nption of House Connection	on(HC) m3/day	'	0.7m3/day		
	05-23 Number of Business Conect				1		
	05-24 Type of Business Connection		, School, Gov. office, Hos	pitaletc			
	05-25 Average of daily water consump	otion of Business Connecti	on (BC) m3/day	·	1.3m3/day		
	05-26 Other technical specimen						
16	Operation and Maintenace						
,0	06-01 Organization's name				Water committe	ee.	-
	06-02 Type of organization		Regional, Zone, Enter	priceetc			on
	06-03 Number of thechnical staff		, 2010, 21101	1	1	<i>G</i>	
	06-04 Principal works of technical	l staff			Pump operation	1	
	06-05 Number of the financial stat	ff			4		
	06-06 Principal works of financial	staff			Water meter rea		r sale
	06-07 Categories of water tariff		W.Point, House Conne	ctionetc.	W. Point, Hous	e connection	
	06-08 Water tariff rate		D: // 201		0.251-:- /201		
	Water point (Public faucet)		Birr/L, 20L		0.35birr/20L		
	House connection		Birr/m3 Birr/m3		15birr/m3 ditto		
	Business connection 06-09 Average monthly income by	v water tariff	Birr/m3 Birr/month		Not grasped		
	06-10 Procurement of spare parts		t Town, Zonal Cap. Reg. 0	an etc	Yabello, Dilla,	Sheshemane	
	06-10 Procurement of spare parts 06-11 Principal spare parts	ä	Oil filter, Fuel filter, F				
	06-12 Method in case of serious re	epair hv Re	egional office, Private com	panv etc	Woreda. Zone	11.13	
	06-13 Principal serious repair with		G SILICO, I II vace com		Mono-pump tro	ouble (Mechai	nical)
	06-14 Fund for above 6-09, 6-10		by Organization, Gov., Do	norsetc.			
	06-15 Other technical specimen						

O-31 Milami

)7	Problem of actual town water sup	nlv				
	07-01 Technical	E-4				
	Water source		Quantity, Qualityetc.	Shortage wat		
	Water supply facility		Decrepit, leakage, design failureetc	See below pa	articular commnents	
	07-02 Finalcial					
	Management			Cash manage	ement (no recording)
	Rate of water tarrif collection	on		Appropiate		
	Personnel expenses			low		
	Shourtage of budget to exec	cute operation & main	itenace	Shortage bud	lget for O&M	
	07-03 Other incidential, Special sp					
	Increase in population to co	onsume water co	oming from other towns, villagesetc	Coming from	n villagers (Students)
	Change in industry		increase factory, Tradingetc			
	Human conflict		Ethnic, Administrativeetc	nil.		
	07-04 Other specimen					
3	Geographical condition	(Slope on mountaion	, bottom of valley, Top of ridgeetc.)		
	Town is on the flat area.					
9	Necessary Institution (Facility, M	aterial)				
	Refer to Chapter 4 "Table 4.7"					
n	Comment West C (2/) 2		ft-)		2001	
J	Current Water Coverage (%) (by			205	29%	100/
			26.1m3/20Lpcd.= 1,305 persons 1,	303persons / 4	,	9%
	Current Water Coverage (%) (by			-1520/	153%	
1			persons 6912persons/4510population	1=135%	-	+
1	Water Potential (A/B/C/D/E	E)			С	
<u> </u>	Approxibility (A/B/C/D/E)	A=Acpholt/D-Desc C-	urse/C=Sub Grade/D=Only Dry Season/E=No	t Annrogaliad	C/D	
_	Accessibility (A/B/C/D/E)		$m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$	т Арргоаспец	C/D	
	It is difficult for operation & main					
2				1	9	
	Manpower Capability of Water Su	appry Management by	water Office point)	***************************************	9	
•						
3						
	Damas of urganay (A / B / C / D /	E)				
	Dgree of urgency (A/B/C/D/	E)				
1	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an	Ethiopian standard, v	whichis not required more advanced tea	chnology. The	small town is on the	e ~
4	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction	Ethiopian standard, v		chnology. The	small town is on the	e
5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an	Ethiopian standard, v		chnology. The	small town is on the	e
5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction Other Donors, NGO's	Ethiopian standard, v			small town is on the	e
5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction	Ethiopian standard, v		chnology. The	small town is on the	е
4 5 7	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction Other Donors, NGO's Main Ethnic Group	Ethiopian standard, v			small town is on the	e
4 5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction of the Donors, NGO's Main Ethnic Group Health conditions	Ethiopian standard, v		Oromo		e
4 5	Refer to Chapter 5 & 7 New Water Supply Plan 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, v n work is not difficult		Oromo Health Cente	r, Private clinic	е
1 5	Refer to Chapter 5 & 7 New Water Supply Plan 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, vn work is not difficult	km	Oromo Health Cente 200	r, Private clinic	e
4 5	Refer to Chapter 5 & 7 New Water Supply Plan 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, vn work is not difficult		Oromo Health Cente 200 Typhoid	r, Private clinic	e
4 5	Refer to Chapter 5 & 7 New Water Supply Plan 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, vn work is not difficult	km	Oromo Health Cente 200 Typhoid Dysentery	r, Private clinic 6,000 3,000	9
4 5	Refer to Chapter 5 & 7 New Water Supply Plan 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, vn work is not difficult	km	Oromo Health Cente 200 Typhoid Dysentery Diarrhea	6,000 3,000 2,500	е -
4 5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction of their 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, vn work is not difficult	km	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria	5r, Private clinic 6,000 3,000 2,500 10,400	е -
4 5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan 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, vn work is not difficult	km	Oromo Health Cente 200 Typhoid Dysentery Diarrhea	5r, Private clinic 6,000 3,000 2,500 10,400	е -
4 5 6 8 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an generally flat terrains, construction of their 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, vn work is not difficult	km	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria	5r, Private clinic 6,000 3,000 2,500 10,400	8
4 5 6 8	Refer to Chapter 5 & 7 New Water Supply Plan 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 a Main patients of water born Main economic activities Particular comments:	Ethiopian standard, v n work is not difficult n Town n diseases	km	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace	6,000 3,000 2,500 10,400 de	е -
4 5 7 3	Refer to Chapter 5 & 7 New Water Supply Plan 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: Collection reservoir is 10m3 where	Ethiopian standard, v n work is not difficult n Town n diseases	km persons / year	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace	6,000 3,000 2,500 10,400 de	
4 5 6 8 8	Refer to Chapter 5 & 7 New Water Supply Plan 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: Collection reservoir is 10m3 where	Ethiopian standard, v n work is not difficult n Town n diseases	km persons / year 50m3 reservoir, where the booster pun	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace	6,000 3,000 2,500 10,400 de	
44 55 66 88	Refer to Chapter 5 & 7 New Water Supply Plan 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: Collection reservoir is 10m3 wher Borehole casing dia. Is small for the sacilities of	Ethiopian standard, v n work is not difficult n Town n diseases	km persons / year 50m3 reservoir, where the booster pun	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace	6,000 3,000 2,500 10,400 de	
44 55 66 88	Refer to Chapter 5 & 7 New Water Supply Plan 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: Collection reservoir is 10m3 wher Borehole casing dia. Is small for the cost and less water production	Ethiopian standard, v n work is not difficult n Town n diseases	km persons / year 50m3 reservoir, where the booster pun	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace	6,000 3,000 2,500 10,400 de within 20minutes	
44 55 66 88	Refer to Chapter 5 & 7 New Water Supply Plan 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: Collection reservoir is 10m3 wher Borehole casing dia. Is small for the cost and less water production	Ethiopian standard, v n work is not difficult n Town n diseases re water is boosted to oig discharge pumps h Mr. Abdi Mamo he	km persons / year 50m3 reservoir, where the booster punence monolift pump is installed and be	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace mp depelets it to posted to main	er, Private clinic 6,000 3,000 2,500 10,400 de within 20minutes reservoir resulted i	
7 3	Refer to Chapter 5 & 7 New Water Supply Plan 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: Collection reservoir is 10m3 where Borehole casing dia. Is small for becost and less water production Remarks:	Ethiopian standard, vn work is not difficult work is not difficult in Town a diseases The water is boosted to big discharge pumps how the Mr. Abdi Mamo he Mr. Sultan Burka el	km persons / year 50m3 reservoir, where the booster punence monolift pump is installed and beat was a water office Mob. 0910874	Oromo Health Cente 200 Typhoid Dysentery Diarrhea Malaria farming, Trace mp depelets it v oosted to main 1999 Off. 0981	er, Private clinic 6,000 3,000 2,500 10,400 de within 20minutes reservoir resulted	
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Data 7.2 Small Town Profile of Oromia Region

O-31 Milami



O-32 Gerada

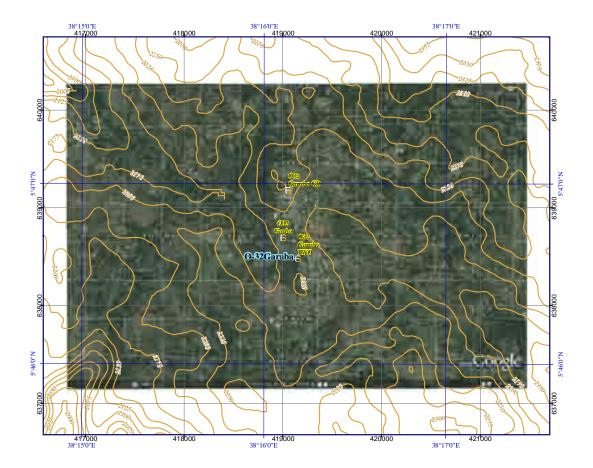
	Oromia Region			17	/30
	Name of small town :		Gerada	0-	
	Name of Woreda :		Bure Hara		
	Name of Zone :		Borena	OZ-	
		le items		Profile	!
01	Population				
		emale / total	by OWRB	3,725 3,775	7,500
	Woreda male / for percentage of Town in Woreda	emale / total	by Census 2007	not listed not listed	not listed #VALUE!
02	•	Adindan)	Easting / Northig / Alt.	419060 638333	2,224
	Town Status	Tumuun)	Eusung / Horung / Hu	Municipality	2,22.
04	Water Source				
	04-01 Water source		Type, No.	Well*2nos. (1 well is not	function)
	04-02 Well spec. 04-03 Method of water draw	Dep	th., Casing Dia., S.W.L, Yield Pump, Gravity	See below memo Pump	
	04-03 Method of Water draw 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 h	iours)	daily hours, time	4hours/day	
	04-07 Water quality		Iron, Fluorideetc.	good	
	04-08 Other technical specimen			1/2 New BH Function, 2/2 Old	BH Shielded
05	Existing Water Supply Facilities				
03	05-01 Established year		(Gregorian calendar)	Not grasped	!
	05-02 Financial of implementation		Donor's name	SIDA, OWRB	
	05-03 Name of implementation (Project nar	ne)		Gerba water supply project	t .
	05-04 Intake Type			Well	
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Ro	acarvoir)	Pipe material, length	2nos. (1 well is not functio GIP, 4"*585m+2*1/2"*95m (
	05-07 Power to convey	eservoir)	Pressure, Gravity	Pressue	Total (dolli)
	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. m3	1no. 100m3	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump St	n ~ Reservoir)	Pipe material, length	nil.	
	05-14 Power to transmit	iii. 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		RC, Masonry, Pipeetc.		
	05-18 Number of water point (Public Fauce 05-19 Number of faucet at a water point (Public Fauce)		no.	11 4FC*4PF, 6FC*6PF	
	05-20 Average of daily water consumption			3.0m3/day	
	05-21 Number of House Connection (HC)	r (/		210	
	05-22 Average of daily water consumption of H	louse Connection(HC)	m3/day	0.92m3/day	
	05-23 Number of Business Conection (BC)			Not grasped	
	05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Business		ol, Gov. office, Hospitaletc. m3/day	Not grasped Not grasped	
	05-26 Other technical specimen	siness Connection (BC)	morady	rvot grasped	
06	Operation and Maintenace		-		
	06-01 Organization's name			Town warter supply servise	e
	06-02 Type of organization 06-03 Number of thechnical staff	Re	gional, Zone, Enterpriceetc	Woreda	
	06-04 Principal works of technical staff			Pump operation, Plumbing	
	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	W.F	Point, House Connectionetc.	W. Point, House connection	n
	06-08 Water tariff rate		Dim/I 201	0.2 hirr / 201	
	Water point (Public faucet) House connection		Birr/L, 20L Birr/m3	0.2 birr / 20L See below memo	
	Business connection		Birr/m3	ditto	
	06-09 Average monthly income by water ta	riff	Birr/month	15,000birr/month	
	06-10 Procurement of spare parts	at Town	, Zonal Cap. Reg. Capetc.	Hagremariam	
	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 year 06-14 Fund for above 6-09, 6-10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	anization, Gov., Donorsetc.	Pump motor burned Town water supply servise	
ı	06-15 Other technical specimen	by Oigo			

O-32 Gerada

0.7		1	
07	Problem of actual town water supply		
	07-01 Technical Water source Ouantity, Oualityetc.	Chart	ton for business
			ter for business connection
	Water supply facility Decrepit, leakage, design failureetc	Design failu	ге
	07-02 Finalcial	a:1	
	Management	nil.	
	Rate of water tarrif collection	revised	
	Personnel expenses	nil.	
	Shourtage of budget to execute operation & maintenace	Shortage for	expansin of pipe line
	07-03 Other incidential, Special specimen		
	Increase in population to consume water coming from other towns, villagesetc	Coming from	n villagers
	Change in industry increase factory, Tradingetc	nil.	
	Human conflict Ethnic, Administrativeetc	nil.	
	07-04 Other specimen		
8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))	
	Town is on the flat area.		
19	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
0	Current Water Coverage (%) (by water consumption at faucets)		149%
,	(3m3*10PF+0.92m3*210HC+0m3*0BC)=223.2m3/day 223.2m3/20Lpcd.=11,160persons 11	160nersons /	
	Current Water Coverage (%) (by data of water source product))	,/	161%
	(8.4L.sec.*3600sec.*8hrs)=241920L/day 241920/20Lcd=12096persos 12096persons/7	500populatio	<u> </u>
1	Water Potential (A / B / C / D / E)	-оороринано	C C
1	Water rotellidi (A/D/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/C
2	(Арргоаспеа	D/C
	A=Road Width > 6 m $/$ B= $>3~6$ m $/$ C= $1~3$ m $/$ D= <1 m		
1.0	Access road is asphalt road 16km from Hagremariam, 89km from Dila.		17
3	Manpower Capability of Water Supply Management by Water Office point)		16
			_
14	Dgree of urgency (A/B/C/D/E)		
4	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7		
		hnology. The	e small town is on the gentle
.5	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 gentl
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, however, construction work is not difficult.	hnology. The	e small town is on the gentle
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15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, however, construction work is not difficult. Other Donors, NGO's		
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 tecridge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6		
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 tecridge, however, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	Oromo, Ged	leo
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, 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	Oromo, Ged	leo er, Private clinic, Drug stor
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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 not required more advanced tecridge, 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	Oromo, Ged Health Center 15 Diarrhea	er, Private clinic, Drug stor
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, 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	Oromo, Ged Health Cente 15 Diarrhea Typhoid	er, Private clinic, Drug stor
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, 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	Oromo, Ged Health Cente 15 Diarrhea Typhoid Malaria	er, Private clinic, Drug stor 392 329 30
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, 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	Oromo, Ged Health Cente 15 Diarrhea Typhoid	er, Private clinic, Drug stor 392 329 30
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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 standard, whichis not required more advanced tecridge, 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 :	Oromo, Ged Health Cente 15 Diarrhea Typhoid Malaria	er, Private clinic, Drug stor 392 329 30
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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 not required more advanced tecridge, 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: Inside of G. Reservoir has been disinfected occasionally by Town water office. Water demand has been increasing due to establishing school, clinicetc.	Oromo, Ged Health Cente 15 Diarrhea Typhoid Malaria	er, Private clinic, Drug stor 392 329 30
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5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, 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: Inside of G. Reservoir has been disinfected occasionally by Town water office. Water demand has been increasing due to establishing school, clinicetc. Remarks: Access road is asphalt road. Mr. Legesse Zewedie Water no (Town sketchetc.): O4-02 Well spec. Well No.1; Estbsh on ???? GL-??m / ??" / SWL GL-??m / 8.4L/sec. Well No.2; Estbsh on ???? GL-??m / ??" / SWL GL-??m / ??L/sec. O5-15 Distribution Type GIP 4"=550m GIP 1*1/2"=1,058m	Oromo, Ged Health Centte 15 Diarrhea Typhoid Malaria Trade, Farm	leo er, Private clinic, Drug stor 392 329 30 ing
15 16 17 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 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Inside of G. Reservoir has been disinfected occasionally by Town water office. Water demand has been increasing due to establishing school, clinicetc. Remarks: Access road is asphalt road. Mr. Legesse Zewedie Water no (Town sketchetc.): O4-02 Well spec. Well No.1; Estbsh on ???? GL-??m / ??" / SWL GL-??m / 8.4L/sec. Well No.2; Estbsh on ???? GL-??m / ??" / SWL GL-??m / ??L/sec. O5-15 Distribution Type GIP 1*1/2"=1,058m GIP 2*1/2"=1,048m GIP 1"=275m GIP 3/4"=1,024m Total L=4,215m GIP 2"=260m GIP 3/4"=1,024m Total L=4,215m	Oromo, Ged Health Centte 15 Diarrhea Typhoid Malaria Trade, Farm	leo er, Private clinic, Drug stor 392 329 30 ing
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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 not required more advanced tecridge, 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: Inside of G. Reservoir has been disinfected occasionally by Town water office. Water demand has been increasing due to establishing school, clinicetc. Remarks: Access road is asphalt road. Mr. Legesse Zewedie Water no (Town sketchetc.): O4-02 Well spec. Well No.1; Estbsh on ???? GL-??m / ??" / SWL GL-??m / 8.4L/sec. Well No.2; Estbsh on ???? GL-??m / ??" / SWL GL-??m / ??L/sec. O5-15 Distribution Type GIP 1*1/2"=1,058m GIP 2*1/2"=1,048m GIP 1"=275m GIP 2*1/2"=1,048m GIP 3/4"=1,024m Total L=4,215m Total L=4,215m O6-08 Water Tariff (House and Business Connection) 0 ~ 3 m3 = 2.35birr/m3 11 ~ 15 m3 = 6.00birr/m3	Oromo, Ged Health Centte 15 Diarrhea Typhoid Malaria Trade, Farm	leo er, Private clinic, Drug stor 392 329 30 ing
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecridge, 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: Inside of G. Reservoir has been disinfected occasionally by Town water office. Water demand has been increasing due to establishing school, clinicetc. Remarks: Access road is asphalt road. Mr. Legesse Zewedie Water no (Town sketchetc.): O4-02 Well spec. Well No.1; Estbsh on ???? GL-??m / ??" / SWL GL-??m / 8.4L/sec. Well No.2; Estbsh on ???? GL-??m / ??" / SWL GL-??m / ??L/sec. O5-15 Distribution Type GIP 4"=550m GIP 1*1/2"=1,058m GIP 2*1/2"=1,048m GIP 1"=275m GIP 2"=260m GIP 3/4"=1,024m Total L=4,215m O6-08 Water Tariff (House and Business Connection)	Oromo, Ged Health Centte 15 Diarrhea Typhoid Malaria Trade, Farm	leo er, Private clinic, Drug stor 392 329 30 ing

Data 7.2 Small Town Profile of Oromia Region

O-32 Gerada



O-33 El Wayya

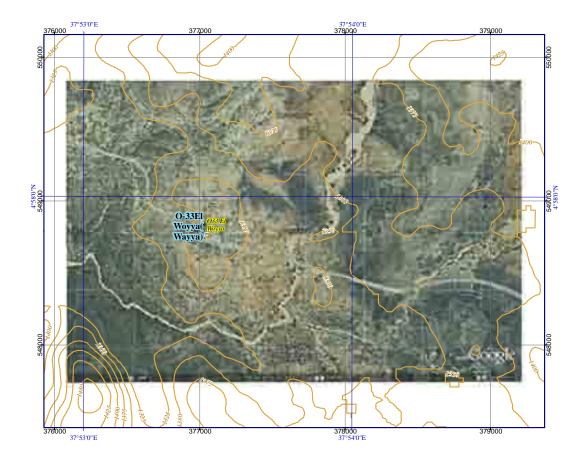
	Oromia Region				18 /3	30	
	Name of small town :		El Woyya		O- 3	3	
	Name of Woreda :		Yabelo		OW- 1	0	
	Name of Zone :		Borena		OZ- 0	2	
		ile items		P	rofile		!
1		female / total female / total	by OWRB by Census 2007	2,015 51,537	2,075 50,848	4,090 102,385 4.0%	
2		(Adindan)	Easting / Northig / Alt.	376956	548609	1,381	
_	Town Status	()		Town administra	tion	-,001	
Ļ	Water Source						
	04-01 Water source		Type, No.	Well * 1no.	U 00	C OI /	
,	04-02 Well spec. 04-03 Method of water draw	Dep	oth., Casing Dia., S.W.L, Yield Pump, Gravity	Pump	, GL-??m,	6.9L/sec.	
	04-04 Pump Spec.		Type, Yield	Motorized pump			
	04-05 Power source for motorized pump		Type, Kva	Commercial Elec	. Line, Gen	nerator	
ı	04-06 Durartion of water draw (Operation	hours)	daily hours, time	02:00-06:00 (4hi	rs./day)		!
	04-07 Water quality		Iron, Fluorideetc.	good			
ļ	04-08 Other technical specimen						
5	Existing Water Supply Facilities			 			-
	05-01 Established year		(Gregorian calendar)	2006			
	05-02 Financial of implementation		Donor's name	US Aid			
	05-03 Name of implementation (Project na	ıme)		El Wayya water j	project		
	05-04 Intake Type			Well			
	05-05 Intake No.	2	D:	1no. GIP, 2", 2,000m		***************************************	
	05-06 Conveyance Type (Water source ~ I 05-07 Power to convey	Reservoir)	Pipe material, length Pressure, Gravity	Pressure			
	05-07 Fower to convey 05-08 Water treatment		Disinfection, Ironetc.	nil.			ļ
	05-09 Water treatment capacity		m3/day	nil.			
	05-10 Water reserver type		Type	GR			
Ì	05-11 Water reserver No.		no.	1no.			
	05-12 Water reserver Capacity		m3	15m3			
	05-13 Transmission Type (Booster pump S	Stn. ~ Reservoir)	Pipe material, length	nil.			
	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	nil. GIP, 2", 600m			ļ
	05-16 Power to distribute		Pressure, Gravity	Gravity			
	05-17 Structure Type of water point (Publi	c Faucet, PF)	RC, Masonry, Pipeetc	Mansonry			
	05-18 Number of water point (Public Fauc	et, PF)	no.	2			
3	05-19 Number of faucet at a water point (F		no.	6			
	05-20 Average of daily water consumption	at a water point (PF)	m3/day	3.0m3/day			
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of	House Connection(UC)	m2/day	nil. nil.			
	05-22 Average of daily water Consumption of 05-23 Number of Business Conection (BC		m3/day	nil.			
	05-24 Type of Business Connection (BC)		ol, Gov. office, Hospitaletc				
	05-25 Average of daily water consumption of B	usiness Connection (BC)	m3/day	nil.			ļ
	05-26 Other technical specimen						
	0						
	Operation and Maintenace			Water committee			
3	06-01 Organization's name 06-02 Type of organization	D,	egional, Zone, Enterpriceetc	Community base		ion	
	06-03 Number of thechnical staff	NO.	egional, Zone, Enterpriceetc	1	u Organizat	1011	
	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			
Ì	06-07 Categories of water tariff	W.I	Point, House Connectionetc	W. Point			ļ
	06-08 Water tariff rate		Dire/I 201	0.3birr/20L			
	Water point (Dublic f)		Birr/L, 20L	nil.			
	Water point (Public faucet) House connection		Birr/m3				i .
	House connection		Birr/m3 Birr/m3				
		ariff	Birr/m3 Birr/m3 Birr/month	nil. 4,000birr/month			
	House connection Business connection		Birr/m3	nil.			
	House connection Business connection 06-09 Average monthly income by water t 06-10 Procurement of spare parts 06-11 Principal spare parts	at Town	Birr/m3 Birr/month n, Zonal Cap. Reg. Capetc il filter, Fuel filter, Pipesetc	nil. 4,000birr/month Yabello Pipefittings			
	House connection Business connection 06-09 Average monthly income by water t 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious repair	at Town Oi by Regional	Birr/m3 Birr/month n, Zonal Cap. Reg. Capetc	nil. 4,000birr/month Yabello Pipefittings Woreda, Zone			
	House connection Business connection 06-09 Average monthly income by water t 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 ye	at Towi Oi by Regional ars	Birr/m3 Birr/month n, Zonal Cap. Reg. Capetc il filter, Fuel filter, Pipesetc office, Private companyetc	nil. 4,000birr/month Yabello Pipefittings Woreda, Zone Generator broker			
	House connection Business connection 06-09 Average monthly income by water t 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious repair	at Towi Oi by Regional ars	Birr/m3 Birr/month n, Zonal Cap. Reg. Capetc il filter, Fuel filter, Pipesetc	nil. 4,000birr/month Yabello Pipefittings Woreda, Zone			

O-33 El Wayya

07	Problem of actual town water supply			
07	07-01 Technical			·
			ge due to operation hours.	
	Water supply facility Decrepit, leakage, design failureetc	Pipe network	is limited.	
	07-02 Finalcial			
		Not grasped		
		Not grasped Not grasped		
			lget for O&M	
	07-03 Other incidential, Special specimen	Difortage out	get for Galli	
	Increase in population to consume water coming from other towns, villagesetc	nil.		
	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.)			
00	Town is on the flat area.			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
				ļ
10	Current Water Coverage (%)		7%	!
1	(3.0m3*2PF+0m3*0HC+0m3*0BC)=6.0m3/day 6.0m3/20Lpcd.= 300persons 300persons /	4,090 popula		İ
1	Current Water Coverage (%) (by data of water source product))		243%	
<u> </u>	((6.9L)*3600min*8hrs)=198720L 198720L/20L=9936persons 9936persons/4090population=	=243%		
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	1
12	A=Road Width $> 6m / B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$. ipprouence	E/ E	
	Access road is Sub Grade 30km from Yabelo, 224km from Dila.			
13	Manpower Capability of Water Supply Management by Water Office point)		6	
1.4	D_{env} of m_{env} (A/B/C/D/E)			
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7			1
	Refer to Chapter 3 & 7		***************************************	
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tech	nnology The	small town is on the	
	generally flat terrains, construction work is not difficult.	mology. The	sman town is on the	
1.0				
10	Other Donors, NGO's			
				·
17	Main Ethnic Group	Borena		
18	Health conditions	H M C +	D: . 1: :	
	-1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente	er, Private clinic	
		Mararia	300	
		Dysentery	250	
		Typhoid		
19		i ypiioiu	50	
	Main economic activities		50 arming, Trade	
20				
20	Particular comments :			
20				
20	Particular comments :			
	Particular comments :			
	Particular comments : Out of the study area. Remarks :	Livestock, F	arming, Trade	
	Particular comments: Out of the study area. Remarks: Mr. Husen Ayano Water committee Audit & inspection here	Livestock, F	arming, Trade	
21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
21	Particular comments: Out of the study area. Remarks: Mr. Husen Ayano Water committee Audit & inspection here	Livestock, F	arming, Trade	
21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
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21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
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21	Particular comments : Out of the study area. Remarks : Mr. Husen Ayano Water committee Audit & inspection her Mr. Hassen Feleke, Town Resedent Mob. 0911092345	Livestock, F	arming, Trade	
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Data 7.2 Small Town Profile of Oromia Region

O-33 El Wayya



O-34 Busa

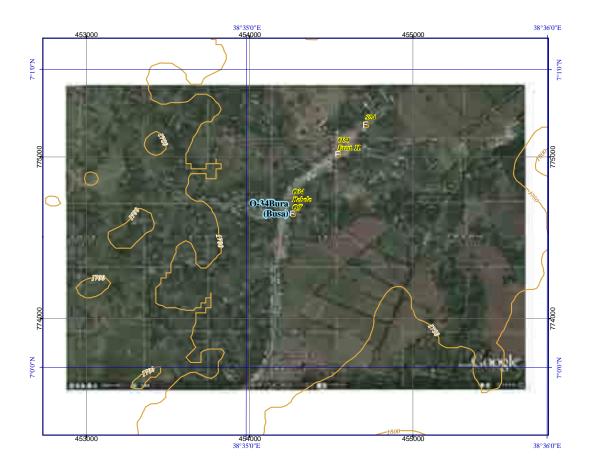
	Oromia Region			19 /30	
	Name of small town :	Busa (Bura)	O- 34	
	Name of Woreda :	Wond		OW- 22	
	Name of Zone :	West Arsi		OZ- 04	
	Profile items			Profile	!
01	Population				
	Town male / female / total	by OWRB	2,500	,-	,112
	Woreda male / female / total	by Census 2007	not listed	not listed not l	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	454170	#VALU 774515 1.	,721
	Town Status	Easting / Northing / Art.	Town administ		,721
	Water Source				
	04-01 Water source	Type, No.	Well*1no.		
		th., Casing Dia., S.W.L, Yield			
	04-03 Method of water draw 04-04 Pump Spec.	Pump, Gravity Type, Yield	Hand pump Manual		
	04-05 Power source for motorized pump	Type, Kva	nil.		
	04-06 Durartion of water draw (Operation hours)	daily hours, time	Not grasped		
	04-07 Water quality	Iron, Fluorideetc.	Not grasped		
	04-08 Other technical specimen				
-					
05	Existing Water Supply Facilities 05-01 Established year	(Gregorian calendar)			
	05-02 Financial of implementation	Donor's name	Goal Ethiopia		
	05-03 Name of implementation (Project name)	Donor's name	Busa water sup	ply project	
	05-04 Intake Type		Well		
	05-05 Intake No.		1no.		
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.		
	05-07 Power to convey	Pressure, Gravity	nil.		
	05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc.	nil. 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	nil.		
	05-14 Power to transmit	Pressure, Gravity	nil.		
	05-15 Distribution Type	Pipe material, length	nil. nil.		
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc.			
	05-18 Number of water point (Public Faucet, PF)	no.	nil.		
	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)		nil.		
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.		
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, School	ol, Gov. office, Hospitaletc.	nil.		
	05-25 Average of daily water consumption of Business Connection (BC)		nil.		
	05-26 Other technical specimen	no, day			
06	Operation and Maintenace		.,		
	06-01 Organization's name 06-02 Type of organization Re	gional Zono Entermises	nil.		
	06-03 Number of thechnical staff	gional, 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.	nil.		
	06-08 Water tariff rate Water point (Public forest)	Di/I 20I	m:1		
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	nil. 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			
İ	06-13 Principal serious repair with 5-10 years	onigation Cay Danser	nil.		
	06-14 Fund for above 6-09, 6-10 by Orga 06-15 Other technical specimen	anization, Gov., Donorsetc.	1111.		
İ	55 15 Other recinited specificit				
	L. Control of the Con				

O-34 Busa

	12			-
07	- LL-C			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Not grasped		
	Water supply facility Decrepit, leakage, design failureetc	nil.		
	07-02 Finalcial			
	Management	nil.		
	Rate of water tarrif collection	nil.		
	Personnel expenses	nil.		
	Shourtage of budget to execute operation & maintenace	nil.		
	07-03 Other incidential, Special specimen	<u> </u>		
	Increase in population to consume water coming from other towns, villagesetc	Coming fron	n villagers	1
	Change in industry increase factory, Tradingetc			
	Human conflict Ethnic, Administrativeetc		ict	!
	07-04 Other specimen	Edillic Collin		- ·
	07-04 Other specimen			
ΛQ	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.	\		+
00	Town is on the flat area.	,		
	10Wil is oil tile flat alea.			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		6 %	
	(6.0m3*1PF+0m3*0HC+0m3*0BC)=6.0m3/day 6.0m3/20Lpcd.=300 persons 300 persons	/ 5,112 popula	ation = 6%	
	Current Water Coverage (%) (by data of water source product))		%	
				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=No	t Approached	B / A	1
	A=Road Width > 6 m $/$ 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	
13	Manpower Capability of Water Supply Management by Water Office point)		2	
1.4	D ((A / D / O / D / D)		1	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec			
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is on			
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16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or construction works is required some ingenuities arround water sources. Other Donors, NGO's			
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or construction works is required some ingenuities arround water sources. Other Donors, NGO's nil.	n the generally		
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16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or 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 Private clinic	y flat terrains, however,	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or 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 Private clinic 30	y flat terrains, however,	
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16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or 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 Private clinic 30 Dysentery Typhoid Diarrhea	c, Drug store, Health post 4,500 3,000 2,200	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or 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 Private clinic 30 Dysentery Typhoid Diarrhea Malaria	c, Drug store, Health post 4,500 3,000 2,200 1,500	
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or 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 Private clinic 30 Dysentery Typhoid Diarrhea Malaria Cholera	y flat terrains, however, c, Drug store, Health post 4,500 3,000 2,200 1,500 500	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tectroubles, conflicts with neighborhoods for development of water sources. The small town is or 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 Private clinic 30 Dysentery Typhoid Diarrhea Malaria Cholera others	y flat terrains, however, c, Drug store, Health post 4,500 3,000 2,200 1,500 500 2,500	
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Data 7.2 Small Town Profile of Oromia Region

O-34 Busa



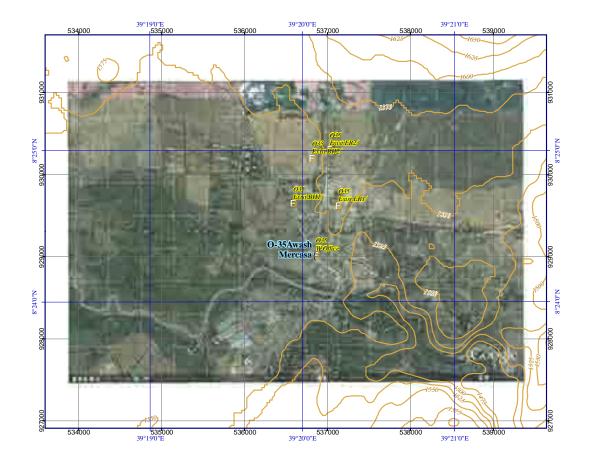
O-35 Awash Mercasa

Oromia Region		A		20 /30
Name of small town	:	Awash Merc	asa	O- 35
Name of Woreda		Adama		OW- 19
Name of Zone	:	East Shev	<i>v</i> a	OZ- 03
	Profile items		F	Profile
Population				
Town	male / female / total	by OWRB	5,050	5,150 10,200
Woreda	male / female / total	by Census 2007	68,726	69,923 138,649
percentage of Town in Wo		E .: /NI .d.: /All	526766	7.4%
Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	536766 Municipality	928904 1,554
Water Source			WithinCipanity	
04-01 Water source		Type, No.	BH Well * 2nos.	(1funnction)
04-02 Well spec.		Depth., Casing Dia., S.W.L, Yie		<u> </u>
04-03 Method of water draw		Pump, Gravity	Pump	
04-04 Pump Spec.		Type, Yield	Motorized pump	11kw
04-05 Power source for motorized	l pump	Type, Kva	Commercial Elec	. Line
04-06 Durartion of water draw (C	peration hours)	daily hours, time	05:30-12:30, 13:3	0-20:00 (13.5hrs./day)
04-07 Water quality		Iron, Fluorideetc.	Floride	
04-08 Other technical specimen				
Existing Water Supply Facilities				
05-01 Established year		(Gregorian calendar)	1990	
05-02 Financial of implementatio	n	Donor's name	World Vision	
05-03 Name of implementation (I	Project name)		Awash Mercasa	water project
05-04 Intake Type			Well	
05-05 Intake No.			2nos. (1 function)
05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP, 2", 500m	
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	ER (Steel)	
05-10 Water reserver type		Type no.	ER (Steet) ER*2nos.	
05-12 Water reserver Capacity		m3	23m3*1no., 13m	3*1no
05-12 Water reserver Capacity	er numn Stn. ~ Reservoir)	Pipe material, length	nil.	3 THO.
05-14 Power to transmit	a pump sui Reservoir)	Pressure, Gravity	nil.	
05-15 Distribution Type		Pipe material, length	Not grasped	
05-16 Power to distribute		Pressure, Gravity	Gravity	
05-17 Structure Type of water po	int (Public Faucet, PF)	RC, Masonry, Pipeet	c. Mansonry	
05-18 Number of water point (Pu	blic Faucet, PF)	no.	8	
05-19 Number of faucet at a wate			6	
05-20 Average of daily water con		(PF) m3/day	0.8m3/day	
05-21 Number of House Connect			529	
05-22 Average of daily water consur		HC) m3/day	Not grasped	
05-23 Number of Business Coned			17	
05-24 Type of Business Connecti		chool, Gov. office, Hospitale		
05-25 Average of daily water consum	ption of Business Connection	(BC) m3/day	Not grasped	
05-26 Other technical specimen				
Operation and Maintenace				
06-01 Organization's name			Town water supp	olv service
06-02 Type of organization		Regional, Zone, Enterpricee		1) 5011100
06-03 Number of thechnical staff			3	
06-04 Principal works of technica			Pump operation,	Plumbing
06-05 Number of the financial sta			5	
06-06 Principal works of financia	l staff		Water meter read	l, Bill
06-07 Categories of water tariff		W.Point, House Connectionet	c. W. Point, House	connection
06-08 Water tariff rate				
<u> </u>		Birr/L, 20L	0.1birr/20L	
Water point (Public faucet)		Birr/m3		m3, 10m3~=3.0birr/m3
Water point (Public faucet) House connection			ditto	
Water point (Public faucet) House connection Business connection	100	Birr/m3	C 0001 : / :	
Water point (Public faucet) House connection Business connection 06-09 Average monthly income by		Birr/month	6,000birr/month	
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. Capet	c. Adama	
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 Cown, Zonal Cap. Reg. Capet Oil filter, Fuel filter, Pipese	c. Adama tc Pipefittings	
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. Capet	c. Adama tc Pipefittings tc Zone	
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	epair by Regi h 5-10 years	Birr/month Cown, Zonal Cap. Reg. Capet Oil filter, Fuel filter, Pipese	c. Adama tc Pipefittings tc Zone Not grasped	

O-35 Awash Mercasa

				1		
	Problem of actual town water sup	pply				
	07-01 Technical					
	Water source		Quantity, Qualityetc.	Floride		!
	Water supply facility		Decrepit, leakage, design failureet	Design failu	re (Reservoir etc.)	
	07-02 Finalcial					
	Management			Not grasped		
	Rate of water tarrif collect	tion		Not grasped		
	Personnel expenses			free		
	Shourtage of budget to exe	ecute operation &	maintenace	Shortage bud	lget for O&M	
	07-03 Other incidential, Special					
	Increase in population to c		coming from other towns, villageset	Coming fron	n villagers	
	Change in industry		increase factory, Tradingetc	Sugure facto	rv	
	Human conflict		Ethnic, Administrativeet			
	07-04 Other specimen					
	or or other specimen					
08	Geographical condition	(Slope on mount	taion, bottom of valley, Top of ridgeetc.)		
00	Town is on the flat area.	(Biope on mount	aron, bottom of valley, Top of Hageee			
	10wii is on the flat area.					
09	Nagagamy Institution (Easility N	Matamial)				
	Necessary Institution (Facility, M	viateriai)				
	Refer to Chapter 4 "Table 4.7"					
					1	
10	Current Water Coverage (%) (by		on at faucets)		57%	
	((0.8m3*8)+(40L*5pesons*(529				.	
	Current Water Coverage (%) (by	y data of water sou	rce product))		%	
11	Water Potential (A/B/C/D/	(E)			Е	
12	Accessibility (A / B / C / D / E)) A=Asphalt/B=Bas	e Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	E/E	
		A=Road Width	> 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access road is Asphalt road 17ki		Refer to Chapter 5 "Table 5-7: Categories	of accessibilit	y"	
13	Manpower Capability of Water S				13	
	F		F			
1.4	Darse of urgency (A / B / C / D	/E)				
	Dgree of urgency (A / B / C / D	/E)				
	Dgree of urgency (A / B / C / D Refer to Chapter 5 & 7	/E)				
	Refer to Chapter 5 & 7	/ E)				
		/ E)				
	Refer to Chapter 5 & 7 New Water Supply Plan		rd however, it may be required high techn	ology water tr	reatment facility to rea	move
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a	n Ethiopian standa	rd, however, it may be required high techn	ology water tr	reatment facility to rer	move
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a	n Ethiopian standa	rd, however, it may be required high techn rrains, construction work is not difficult.	ology water tr	reatment facility to rer	move
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a	n Ethiopian standa		ology water tr	reatment facility to rer	nove
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a Fluoride. The small town is on the	n Ethiopian standa		ology water tr	reatment facility to rer	move
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a Fluoride. The small town is on the Other Donors, NGO's	n Ethiopian standa		ology water tr	reatment facility to rer	nove
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in as Fluoride. The small town is on the Other Donors, NGO's World Vision	n Ethiopian standa				move
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a Fluoride. The small town is on the Other Donors, NGO's	n Ethiopian standa		ology water tr		move
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group	n Ethiopian standa				move
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions	n Ethiopian standa he generally flat ter		Oromo, Sout	th	nove
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town	n Ethiopian standa he generally flat ter	rrains, construction work is not difficult.	Oromo, Sout	th er, Private clinic	nove
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro	n Ethiopian standa he generally flat ter generally flat ter ter	rains, construction work is not difficult.	Oromo, Sout	th er, Private clinic	nove
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town	n Ethiopian standa he generally flat ter generally flat ter ter	rrains, construction work is not difficult.	Oromo, Sout Health Cente 16 Mararia	er, Private clinic	nove
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro	n Ethiopian standa he generally flat ter generally flat ter ter	rains, construction work is not difficult.	Oromo, Sout Health Cente 16 Mararia Typhoid	th er, Private clinic 720 300	nove
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities froder. -3 Main patients of water bor	n Ethiopian standa he generally flat ter generally flat ter ter	rains, construction work is not difficult.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea	th er, Private clinic 720 300 5	nove
15 16 17	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro	n Ethiopian standa he generally flat ter generally flat ter ter	rains, construction work is not difficult.	Oromo, Sout Health Cente 16 Mararia Typhoid	th er, Private clinic 720 300 5	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water bor Main economic activities	n Ethiopian standa he generally flat ter generally flat ter ter	rains, construction work is not difficult.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea	th er, Private clinic 720 300 5	nove
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments:	n Ethiopian standa he generally flat ter generally flat ter n n om Town rn diseases	km persons / year	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea	th er, Private clinic 720 300 5	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been	n Ethiopian standa he generally flat ter n m Town rn diseases	rains, construction work is not difficult.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea	th er, Private clinic 720 300 5	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments:	n Ethiopian standa he generally flat ter n m Town rn diseases	km persons / year	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea	th er, Private clinic 720 300 5	nove
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15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in To	n Ethiopian standa he generally flat ter n m Town rn diseases	km persons / year	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea	th er, Private clinic 720 300 5	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Toout of the study area.	n Ethiopian standa he generally flat ten n om Town rn diseases maintained (cleanown.	km persons / year	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in To Out of the study area. Remarks:	n Ethiopian standa he generally flat ter mom Town rn diseases maintained (cleanown.	km persons / year ed) regularly by the Town water office.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in To Out of the study area. Remarks:	n Ethiopian standa he generally flat ter mom Town rn diseases maintained (clean- own. Mr. Hailu Heur Mr. Mengistu F	km persons / year ed) regularly by the Town water office. die Water servics head Mob. 0913264041 Bekele Casher Mob. 0912249360	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing	nove
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in at Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Tool out of the study area. Remarks: Out of the study area.	n Ethiopian standa he generally flat ter mom Town rn diseases maintained (clean- own. Mr. Hailu Heur Mr. Mengistu F	km persons / year ed) regularly by the Town water office.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing	nove
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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 Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Tout of the study area. Remarks: Out of the study area. o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999	n Ethiopian standa he generally flat ter more than the description of	km persons / year ed) regularly by the Town water office. die Water servics head Mob. 0913264041 Bekele Casher Mob. 0912249360 Seyoum Bill collector, 0910986577 SWL GL-??m / ??L/sec.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing Not function	
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Tout of the study area. Remarks: Out of the study area. o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999	n Ethiopian standa he generally flat ter more than the description of	km persons / year ed) regularly by the Town water office. die Water servics head Mob. 0913264041 Bekele Casher Mob. 0912249360 Seyoum Bill collector, 0910986577 SWL GL-??m / ??L/sec.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing Not function	
115 116 117 118 119 220	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Tout of the study area. Remarks: Out of the study area. o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999	n Ethiopian standa he generally flat ter more than the description of	km persons / year ed) regularly by the Town water office. die Water servics head Mob. 0913264041 Bekele Casher Mob. 0912249360 Seyoum Bill collector, 0910986577 SWL GL-??m / ??L/sec.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing Not function	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Tout of the study area. Remarks: Out of the study area. o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999	n Ethiopian standa he generally flat ter more than the description of	km persons / year ed) regularly by the Town water office. die Water servics head Mob. 0913264041 Bekele Casher Mob. 0912249360 Seyoum Bill collector, 0910986577 SWL GL-??m / ??L/sec.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing Not function	
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Fluoride. The small town is on the Other Donors, NGO's World Vision Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities fro -3 Main patients of water bor Main economic activities Particular comments: Elevated reservoir tank has been There is World vision ofice in Tout of the study area. Remarks: Out of the study area. o (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1999	n Ethiopian standa he generally flat ter more than the description of	km persons / year ed) regularly by the Town water office. die Water servics head Mob. 0913264041 Bekele Casher Mob. 0912249360 Seyoum Bill collector, 0910986577 SWL GL-??m / ??L/sec.	Oromo, Sout Health Cente 16 Mararia Typhoid Diarrhea Trade, Farmi	th 20 300 5 ing Not function	nove
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O-35 Awash Mercasa



O-36 Walanciti

	Oromia Region		21 /30	
	Name of small town :	Walanciti	O- 36	
	Name of Woreda :	Bosat	OW- 23	
	Name of Zone :	East Shewa		
	Profile items	Lust Official	Profile	•
01	Population Town male / female / total Woreda male / female / total	by OWRB by Census 2007	5,590 5,670 11,260 not listed not listed not listed	•
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	#VALUE! 547079 956807 1,470	
_	Town Status	Easting / Norting / Mit.	Municipally	
04	Water Source		i i	
	04-01 Water source	Type, No.	BH Well * 5nos.	
		oth., 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	See below memo Commercial Elec. Line	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	24hrs.	
	04-07 Water quality	Iron, Fluorideetc.	Flouride	
	04-08 Other technical specimen	11011,111011111		
	•	***************************************		
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1969,1979,1994,1993, 1993,2007	
	05-02 Financial of implementation	Donor's name	ARDU, Kalehiwot church, World Vision	
	05-03 Name of implementation (Project name)		Walanciti water project Well	
	05-04 Intake Type 05-05 Intake No.		6nos.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 4", 500m	
	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	
	05-11 Water reserver No.	no.	2nos.	
	05-12 Water reserver Capacity	m3	50m3*2nos.	
	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. See below memo	
	05-16 Power to distribute	Pressure, Gravity	Gravity, Pressure	·
	05-17 Structure Type of water point (Public Faucet, PF)		Mansonry, Pipe	
	05-18 Number of water point (Public Faucet, PF)	no.	21	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	5FC*4PF, 3FC*6PF, 1FC*11PF	
	05-20 Average of daily water consumption at a water point (PF)) m3/day	12.0m3/day	
	05-21 Number of House Connection (HC)		1,296	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.34m3/day	
	05-23 Number of Business Conection (BC)	ol, Gov. office, Hospitaletc.	Gov. office, Hospital, Hotel etc.	
	05-24 Type of Business Connection (BC) Factory, Scho 05-25 Average of daily water consumption of Business Connection (BC)		0.42m3/day	
	05-26 Other technical specimen	, muluay	0.12113/day	
06	Operation and Maintenace			
11	06-01 Organization's name		Town water spply service office	
		egional, Zone, Enterpriceetc.		
	06-03 Number of thechnical staff		6	
	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	
		Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate	onn, mouse connectionetc.	om, nouse connection	
	Water point (Public faucet)	Birr/L, 20L	0.2birr/20L	·
	House connection	Birr/m3	See below memo	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	100,000birr/month	
		n, Zonal Cap. Reg. Capetc.	Wolenchiti, Adama, Addis Ababa	
	06-11 Principal spare parts O(12 Method in second fractions are specified.	il filter, Fuel filter, Pipesetc		
11	06-12 Method in case of serious repair by Regional 06-13 Principal serious repair with 5-10 years	office, Private companyetc	Region Pump motor burned	
	<u> </u>	anization, Gov., Donorsetc.		l
ı	06-15 Other technical specimen			

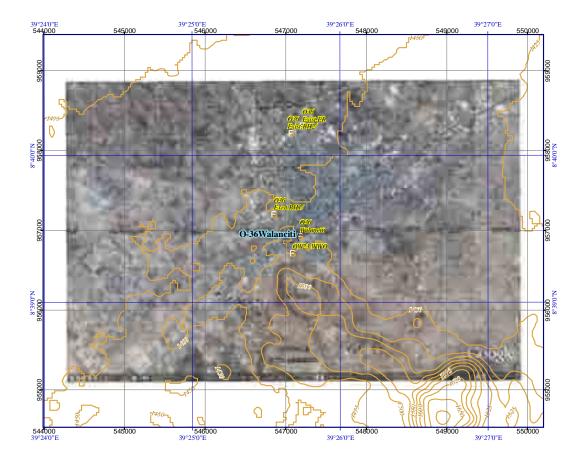
O-36 Walanciti

07	Problem of actual town water supp	ly		
	07-01 Technical			
	Water source		c. Shortage water (Old BH)	
	Water supply facility	Decrepit, leakage, design failuree	tc Water leakage, Design failure	
	07-02 Finalcial			
	Management		nil.	
	Rate of water tarrif collectio	n	nil.	
	Personnel expenses		nil.	
	Shourtage of budget to exec		nil.	
	07-03 Other incidential, Special sp		(Coming from other village	
	Increase in population to cor Change in industry	nsume water coming from other towns, villagese increase factory, Tradinget	c Coming from other villages	
	Human conflict	Ethnic, Administrativee		
	07-04 Other specimen	Euline, Administrativee	ic iii.	
	07-04 Other specimen			
08	Geographical condition	(Slope on mountaion, bottom of valley, Top of ridgeeta	:)	
	Town is on flat area.	(orope on mountain, contour or valley, rop or mage men		
09	Necessary Institution (Facility, Ma	terial)		
	Refer to Chapter 4 "Table 4.7"			
L				
10	Current Water Coverage (%) (by		338%	!
		3*162BC)=760.7m3/day 760.7m3/20Lpcd.= 38,034 persons 38,	034persons / 11,260 population = 338%	
	Current Water Coverage (%) (by o		275%	
	111	.)*3600min*8hrs)=619200L 619200L/20L=30960persons		
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	ot Approached E / E	
	ļ	A=Road Width > $6m / B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$		
10		from Adama. * Refer to Chapter 5 "Table 5-7: Categories		
13	Manpower Capability of Water Su	pply Management by Water Office point)	22	
1.4	Dgree of urgency (A / B / C / D / I	E)		
14	Refer to Chapter 5 & 7	D)		
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
10		Ethiopian standard, however, it may be required high tech	nology water treatment facility to remove	
			hology water deadlient facility to femove	
	-			
	-	generally flat terrains, however, construction works is req		
16	Fluoride. The small town is on the sources. Other Donors, NGO's	generally flat terrains, however, construction works is req		
16	Fluoride. The small town is on the sources.	generally flat terrains, however, construction works is req		
16	Fluoride. The small town is on the sources. Other Donors, NGO's	generally flat terrains, however, construction works is req		
	Fluoride. The small town is on the sources. Other Donors, NGO's	generally flat terrains, however, construction works is req		
17	Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group	generally flat terrains, however, construction works is req	uired some ingenuities arround water	
17	Fluoride. The small town is on the sources. Other Donors, NGO's ARDU, Kalehiwot church, World Main Ethnic Group Health conditions	generally flat terrains, however, construction works is req	uired some ingenuities arround water Amhara, Oromo	
17	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	generally flat terrains, however, construction works is req	Amhara, Oromo Health Center, Private clinic, Drug store	
17	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	generally flat terrains, however, construction works is required. Vision Town km	Amhara, Oromo Health Center, Private clinic, Drug store 25	
17	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	generally flat terrains, however, construction works is required. Vision Town km	Amhara, Oromo Health Center, Private clinic, Drug store	
17	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	generally flat terrains, however, construction works is required. Vision Town km	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300	,
17	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	generally flat terrains, however, construction works is required. Vision Town km	Amhara, Oromo Health Center, Private clinic, Drug store 25	
17 18	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	generally flat terrains, however, construction works is required. Vision Town km	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300)
17 18	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:	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300	
17 18	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	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace.	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300	
17 18	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	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace.	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300	
17 18 19 20	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.	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace.	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300	
17 18	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:	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300	
17 18 19 20	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.	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming	
17 18 19 20	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:	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming	
17 18 19 20	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:	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator Mr. Teshome Dere H/finance section mob . 0911976825	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming	
17 18 19 20	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.	generally flat terrains, however, construction works is required. Vision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator Mr. Teshome Dere H/finance section mob . 0911976825	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming	
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17 18 19 20	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	generally flat terrains, however, construction works is required. Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator Mr. Teshome Dere H/finance section mob . 0911976825 Mr. Mengiste Dachew Technic section head mob. 09102 GL-180m / 6" / SWL GL-??m / 2.5L/sec. / 11kw	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming 81 626 Motorised Pump	
17 18 19 20	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	generally flat terrains, however, construction works is required. Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel administrator Mr. Teshome Dere H/finance section mob . 0911976825 Mr. Mengiste Dachew Technic section head mob. 09102 GL-180m / 6" / SWL GL-??m / 2.5L/sec. / 11kw GL-174m / 6" / SWL GL-??m / 4.5L/sec. / 12.5kw	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming 81 626 Motorised Pump Motorised Pump	
17 18 19 20	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.): 104-02 Well spec. Well No.1; Estbsh on 1969 Well No.2; Estbsh on 1979 Well No.3; Estbsh on 1994	generally flat terrains, however, construction works is required. Wision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator Mr. Teshome Dere H/finance section mob . 0911976825 Mr. Mengiste Dachew Technic section head mob. 09102 GL-180m / 6" / SWL GL-??m / 2.5L/sec. / 11kw GL-174m / 6" / SWL GL-??m / 4.5L/sec. / 12.5kw GL-174m / 6" / SWL GL-??m / 4.5L/sec. / 15kw	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming 81 626 Motorised Pump Motorised Pump Motorised Pump	
17 18 19 20	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.3; Estbsh on 1994 Well No.4; Estbsh on 1993	Wision Town km diseases persons / year persons for operation & maintenace. fee. Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator Mr. Teshome Dere H/finance section mob . 0911976825 Mr. Mengiste Dachew Technic section head mob. 09102 GL-180m / 6" / SWL GL-??m / 2.5L/sec. / 11kw GL-174m / 6" / SWL GL-??m / 4.5L/sec. / 12.5kw GL-174m / 6" / SWL GL-??m / 3.5L/sec. / 15kw GL-174m / 6" / SWL GL-??m / 2.5L/sec. / 15kw	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming 81 626 Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump	
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17 18 19 20	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.3; Estbsh on 1993 Well No.4; Estbsh on 1993 Well No.5; Estbsh on 2007 O5-15 Distribution Type GIP 4"=1,575m GIP 3"=1,591m	Wision Town km diseases persons / year Ms. Seble Takele, Mr. Muktor Kalil Mr. Negassa Jaleta Personel adminstrator Mr. Teshome Dere H/finance section mob . 0911976825 Mr. Mengiste Dachew Technic section head mob. 09102 GL-180m / 6" / SWL GL-??m / 2.5L/sec. / 11kw GL-174m / 6" / SWL GL-??m / 4.5L/sec. / 12.5kw GL-174m / 6" / SWL GL-??m / 3.5L/sec. / 15kw GL-174m / 6" / SWL GL-??m / 3.5L/sec. / 11kw GL-180m / 6" / SWL GL-??m / 3.5L/sec. / 11kw GL-184m / 6" / SWL GL-??m / 3.5L/sec. / 11kw GL-184m / 6" / SWL GL-??m / 3.5L/sec. / 11kw GL-184m / 6" / SWL GL-??m / 3.5L/sec. / 11kw GL-184m / 6" / SWL GL-??m / 3.5L/sec. / 18.5kw GIP 2"=2,984m GIP 3/4"=200m GIP1*1/2"=6,002m GIP1*1/2"=6,002m GIP1*1/2"=6,000m Total L=14,956m	Amhara, Oromo Health Center, Private clinic, Drug store 25 Mararia 300 Trade, Farming 81 626 Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump Motorised Pump	!

 $0 \sim 3 \text{ m}3 = 3.50 \text{birr/m}3$ 7 ~ 10m3= 5.50birr/m3 $4 \sim 6 \text{ m}3 = 4.75 \text{birr/m}3$ 11m3 ~ = 7.00birr/m3

Data 7.2 Small Town Profile of Oromia Region

O-36 Walanciti



O-37 Doni

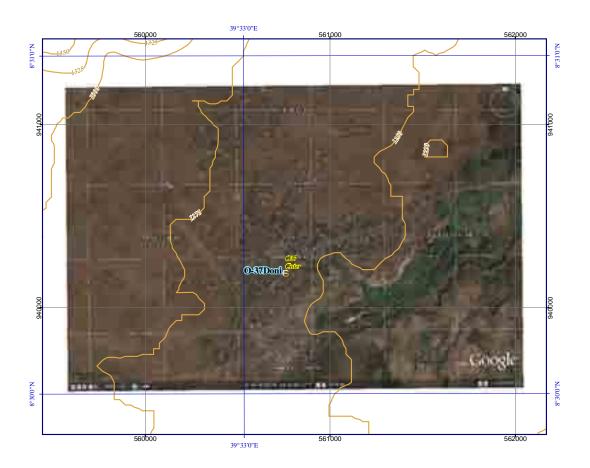
	Oromia Region			22 /30	
			Doni	O- 37	
	Name of Woreda		Bosat	OW- 23	
	Name of Zone		East Shewa		
		Profile items		Profile	!
01	Population				
		nale / female / total	by OWRB	2,014 2,150 4,1	64
	Woreda r percentage of Town in Wored	nale / female / total	by Census 2007	not listed not listed not listed #VALUI	21
02		JTM (Adindan)	Easting / Northig / Alt.	56065 940071 1,2	
	Town Status	(Town administration	
04	Water Source				
	04-01 Water source		Type, No.	nil.	
	04-02 Well spec.	Dep	th., Casing Dia., S.W.L, Yield	nil. nil.	
	04-03 Method of water draw 04-04 Pump Spec.		Pump, Gravity Type, Yield	nil.	
	04-05 Power source for motorized p	ımn	Type, Kva	nil.	
	04-06 Durartion of water draw (Open		daily hours, time	nil.	
	04-07 Water quality	allon nours)	Iron, Fluorideetc.	nil.	
	04-08 Other technical specimen				
		**************************************	t the state of the		
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 (Pro 05-04 Intake Type	ect name)		nil.	
	05-04 Intake Type 05-05 Intake No.			nil.	
	05-06 Conveyance Type (Water sour	ce ~ Reservoir)	Pipe material, length	nil.	
	05-07 Power to convey	1105011011)	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. B,	m3	nil.	
	05-13 Transmission Type (Booster p 05-14 Power to transmit	ump 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 point	(Public Faucet, PF)			
	05-18 Number of water point (Public		no.	nil.	
	05-19 Number of faucet at a water po		no.	nil.	
	05-20 Average of daily water consur		m3/day	nil.	
	05-21 Number of House Connection			nil.	
	05-22 Average of daily water consumpt		m3/day	nil.	
	05-23 Number of Business Conectio 05-24 Type of Business Connection		ol, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption			nil.	
	05-26 Other technical specimen	n or Business Connection (BC)	III3/day		
06	Operation and Maintenace				
	06-01 Organization's name			nil.	
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc.		
	06-03 Number of thechnical staff			nil.	
	06-04 Principal works of technical st	aff		nil.	
	06-05 Number of the financial staff 06-06 Principal works of financial st	off		nil.	
	06-07 Categories of water tariff		Point, House Connectionetc.		
	06-08 Water tariff rate		om, nouse connectionetc.		
	Water point (Public faucet)		Birr/L, 20L	(5birr/20L	
	House connection		Birr/m3	nil.	
	Business connection		Birr/m3	nil.	
	06-09 Average monthly income by v		Birr/month	nil.	
	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 repa		office, Private companyetc	nil. nil.	
	06-13 Principal serious repair with 5 06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.		
	06-15 Other technical specimen	by Olga	anzadon, Gov., Dolloisetc.	1111.	

O-37 Doni

07		I		1
07	Problem of actual town water supply			
	07-01 Technical			<u> </u>
1	Water source Quantity, Qualityetc.	No water sur	pply facility	ļ
	Water supply facility Decrepit, leakage, design failureetc	nil.		
	07-02 Finalcial			
	Management	nil.		
	Rate of water tarrif collection	nil.		
	Personnel expenses	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	nil		
	Change in industry increase factory, Tradingetc			-
	Human conflict Ethnic, Administrativeetc			·
	07-04 Other specimen	11111.		
	U/-U4 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		ļ
	Town is on flat area with in gently slope at the foot of a hill in the north.			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
				†
10	Current Water Coverage (%) (by water consumption at faucets)		%	
1	No water supply facility (Buy water from Water tanker)		,,,	
	Current Water Coverage (%) (by data of water source product))		%	
	Carrent franci Coverage (70) (by data of water source product))		/0	╁
11	Water Potential (A / P / C / D / E)		Е	-
111	Water Potential (A / B / C / D / E)		E	
<u> </u>	1		E / E	1
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 48km from Adama. (=18+30km from Adama)			
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			
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec			
			small town is on the	
	generally flat terrains, however, construction works is required some ingenuities arround water		small town is on the	
16	generally flat terrains, however, construction works is required some ingenuities arround water		small town is on the	
16			small town is on the	
16	generally flat terrains, however, construction works is required some ingenuities arround water		small town is on the	
	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's	r sources.		
	generally flat terrains, however, construction works is required some ingenuities arround water			
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group	r sources.		
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions	Oromo, Amb	nara	
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo, Amb		re
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions	Oromo, Amb	nara	re
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo, Aml	nara	re
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo, Amb	nara er, Private clinic, Drug stor	re
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo, Aml Health Cente 51 Mararia	nara er, Private clinic, Drug stor 720	re
17	generally flat terrains, however, construction works is required some ingenuities arround wate Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo, Amb Health Cente 51 Mararia Dysentery	nara er, Private clinic, Drug stor 720 250 150	re
17	generally flat terrains, however, construction works is required some ingenuities arround wate 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, Amb Health Cente 51 Mararia Dysentery Typhoid	nara er, Private clinic, Drug stor 720 250 150	re
17 18	generally flat terrains, however, construction works is required some ingenuities arround wate 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, Amb Health Cente 51 Mararia Dysentery Typhoid	nara er, Private clinic, Drug stor 720 250 150	re
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17 18	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area	Oromo, Amb Health Cente 51 Mararia Dysentery Typhoid	nara er, Private clinic, Drug stor 720 250 150	re
17 18	generally flat terrains, however, construction works is required some ingenuities arround wate 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, Amb Health Cente 51 Mararia Dysentery Typhoid	nara er, Private clinic, Drug stor 720 250 150	
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water.	Oromo, Amb Health Cente 51 Mararia Dysentery Typhoid	nara er, Private clinic, Drug stor 720 250 150	
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks:	Oromo, Amb Health Cente 51 Mararia Dysentery Typhoid	nara er, Private clinic, Drug stor 720 250 150	
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area.	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	nara er, Private clinic, Drug stor 720 250 150 ade	!
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17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area.	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
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17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
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17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
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17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	r, Private clinic, Drug stor 720 250 150 ade	!
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17 18 19 20	generally flat terrains, however, construction works is required some ingenuities arround wate 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: Out of the Study Area Water tanker supply (sale) drinking water. Remarks: Out of the study area. Mr. Gemechu Edo Dekebo, 1 Mr. Eshetu Fekadu Head of '	Oromo, Aml Health Cente 51 Mararia Dysentery Typhoid Farming, Tra	nara 2r, Private clinic, Drug stor 720 250 150 ade	!

Data 7.2 Small Town Profile of Oromia Region

O-37 Doni



06-15 Other technical specimen

O-38 Befa

Data 7.2 Small Town Profile of Oromia Region

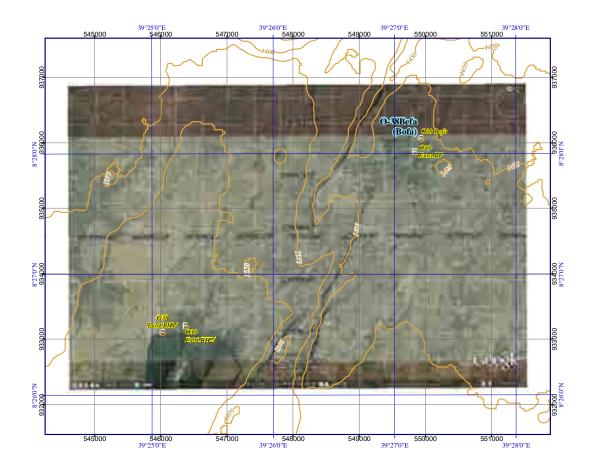
Oromia Region 23 /30 Bofa (Befa) Name of small town O- 38 Name of Woreda Bosat OW- 23 Name of Zone East Shewa OZ- 03 Profile items Profile 01 Population by OWRB Town male / female / total 3.688 3.352 7.040 by Census 2007 not listed Woreda male / female / total not listed not listed percentage of Town in Woreda **#VALUE!** 02 Town Coordination UTM (Adindan) Easting / Northig / Alt. 549838 935954 1,423 03 Town Status Town administration 04 Water Source BH Well * 2nos. 04-01 Water source Type, No. Depth., Casing Dia., S.W.L, Yield See below memo 04-02 Well spec 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 08:00-12:00, 14:00-17:00 (7hrs/day) 04-06 Durartion of water draw (Operation hours) daily hours, time 04-07 Water quality Iron, Fluoride ...etc. good 04-08 Other technical specimen 05 Existing Water Supply Facilities 05-01 Established year 1981 / 2003 (Gregorian calendar) SNNPR / World Vision 05-02 Financial of implementation Donor's name 05-03 Name of implementation (Project name) Befa water project 05-04 Intake Type Well 05-05 Intake No. 2nos GIP, 3", 5,200m 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. nil. 05-09 Water treatment capacity nil. m3/day GR 05-10 Water reserver type Type 05-11 Water reserver No. no. 3nos 50m3*2nos., 25m3*1no. 05-12 Water reserver Capacity m3 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length 05-14 Power to transmit Pressure, Gravity 05-15 Distribution Type Pipe material, length GIP, 2"~1*1/2"~1", 300m 05-16 Power to distribute Gravity Pressure, Gravity 05-17 Structure Type of water point (Public Faucet, PF) RC, Masonry, Pipe ...etc. Monsonry 05-18 Number of water point (Public Faucet, PF) no. 6FC*3PF, 4FC*2PF, 3FC*1PF, 2FC*1PF 05-19 Number of faucet at a water point (Public Faucet, PF) 05-20 Average of daily water consumption at a water point (PF) m3/day 14m3/day 05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC) 1.5m3/day m3/day 05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, School, Gov. office, Hospital ...etc. Gov.*7, School*1 05-25 Average of daily water consumption of Business Connection (BC) 1.5m3/day 05-26 Other technical specimen 06 Operation and Maintenace 06-01 Organization's name Town water supply service office 06-02 Type of organization Regional, Zone, Enterprice...etc Zone 06-03 Number of thechnical staff 06-04 Principal works of technical staff Pump operation 06-05 Number of the financial staff Water meter read, Bill 06-06 Principal works of financial staff W. Point, House connection W.Point, House Connection...etc 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet) Birr/L, 20L 0.1birr/20L, 2.65birr/m3 see below memo House connection Birr/m3 Business connection Birr/m3 ditto 29,000birr/month 06-09 Average monthly income by water tariff Birr/month at Town, Zonal Cap. Reg. Cap. ...etc. Addis Ababa, Adama 06-10 Procurement of spare parts 06-11 Principal spare parts Oil filter, Fuel filter, Pipes ...etc Pipes&fittings, Elec. Panel parts 06-12 Method in case of serious repair by Regional office, Private company ...etc Zone 06-13 Principal serious repair with 5-10 years Pump burned 06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donors ...etc. Water supply service office

O-38 Befa

07				
07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wat		
	Water supply facility Decrepit, leakage, design failureetc	Design failur	e (pipe lines)	
	07-02 Finalcial	-:1		
	Management	nil.		
	Rate of water tarrif collection	low		
	Personnel expenses	nil.	l d l d El d	
	Shourtage of budget to execute operation & maintenace	Snortage of t	oudget due to Elec. cost.	
	07-03 Other incidential, Special specimen	-1		-
	Increase in population to consume water coming from other towns, villagesetc Change in industry increase factory, Tradingetc			
	<u> </u>			
	Human conflict Ethnic, Administrativeetc	,n11.		
	07-04 Other specimen			
00	Constitution (Classes were the better of collection of col	<u> </u>		
08	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)			-
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)		%	-
10	(??m3*7PF+1.5m3*98HC+1.5m3*8BC)=??m3/day ??m3/20Lpcd.=??persons ??persons/7	040nonulatio		
	Current Water Coverage (%) (by data of water source product))	о тороритано	n=::% %	
	Carrent realer Coverage (10) (by data of water source product))		/0	
11	Water Potential (A / B / C / D / E)		Е	+
. 1	THEOLOGICAL (LIBERTON)		L	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	Approached	E/E	
. 4	A=Road Width > 6 m /B = >3 ~ 6 m / C= 1 ~ 3 m / D= <1 m	. _{FF} . sacrica	<u> </u>	┥
	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	+
13	Transpower cupations of tracer supply training enterior by tracer office going			
14	Dgree of urgency (A / B / C / D / E)			
17	Refer to Chapter 5 & 7			
	To Onaper 5 co			
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	
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
10	World Vision		***************************************	
	TOTAL VISION			
17	Main Ethnic Group	Oromo		
-,		0101110		
18	Health conditions			
	-1 Medical facilities in Town	Health Cente	r, Private clinic, Drug st	ore
	-2 Nearest other facilities from Town km	35		
	-3 Main patients of water born diseases persons / year	Mararia	700	
	posion, jeu	Dysentery	120	1
		Typhoid	120	
		others	320	-
19	Main economic activities	Farming, Tra		
-/				
20	Particular comments :			
	Out of the study area.			
				1
				_
21	Remarks:			1
-	Access is sub base course of asphalt pavement. (Gravel road)			
	Out of the study area.			
	-			
Лen	no (Town sketchetc.) :			
		1	. 1	Ł
	04-02 Well spec.			<u> </u>
	Well No.1; Estbsh on 1981 GL-64m / Casing dia.6" / SWL GL-??m / ??L/sec.		Under operating	
	Well No.2; Estbsh on 2003 GL-84m / Casing dia.6" / SWL GL-??m / ??L/sec.		Under operating	
	, , , , , , , , , , , , , , , , , , , ,			
	06-08 Water Tariff (House and Business Connection)			-
	$0 \sim 5 \text{ m3} = 3.0 \text{birr/m3}$ $30 \text{ m3} \sim = 5.00 \text{birr/m3}$			
	5 ~ 11 m3 = 3.70birr/m3			_
	11 ~ 30m3= 4.50birr/m3			
_				
	-			
	-			
	•			***************************************

Data 7.2 Small Town Profile of Oromia Region

O-38 Befa



O-39 Intaye

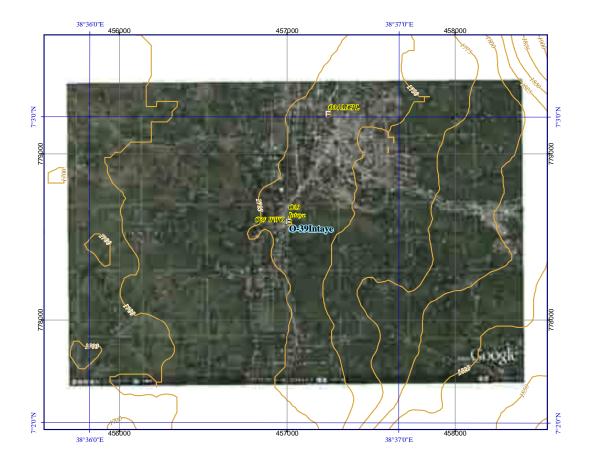
	Oromia Region			24 /30
	Name of small town :	Intaye		D- 39
	Name of Woreda :	Wondo		V- 22
	Name of Zone :	West Arsi		Z- 04
	Profile items		Profile	
01	Population			
	Town male / female / total	by OWRB	4,202 4,2	
	Woreda male / female / total	by Census 2007	not listed not list	ted not listed #VALUE!
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	456917 7784	
_	Town Status	Lasting / Norting / Mit.	Municipally	37 1,743
04	Water Source			
	04-01 Water source	Type, No.	nil. (from Sheshe Town	1)
		th., Casing Dia., S.W.L, Yield		
	04-03 Method of water draw 04-04 Pump Spec.	Pump, Gravity Type, Yield	nil.	
	04-04 Pump Spec. 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	/O : 1 1 \	1	
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar)	nil.	
	05-02 Prinancial of implementation (Project name)	Donor's name	nil. 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	Туре	nil.	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	nil. 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	Distributed from Shesh	e Town
	05-16 Power to distribute	Pressure, Gravity	Gravity	
	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) 05-20 Average of daily water consumption at a water point (PF)	no. m3/day	Not grasped	
	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)		nil.	
		ol, Gov. office, Hospitaletc.	nil.	
	05-25 Average of daily water consumption of Business Connection (BC)	m3/day	nil.	
l	05-26 Other technical specimen		•	
06	Operation and Maintenace			-
00	06-01 Organization's name		nil.	
l		gional, Zone, Enterpriceetc		
l	06-03 Number of thechnical staff		nil.	
l	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		nil.	
	06-06 Principal works of financial staff		nil.	
l	06-07 Categories of water tariff W.1 06-08 Water tariff rate	Point, House Connectionetc.	n11.	
l	Water point (Public faucet)	Birr/L, 20L	nil.	
l	House connection	Birr/m3	nil.	
l	Business connection	Birr/m3	nil.	
	06-09 Average monthly income by water tariff	Birr/month	nil.	
	06-10 Procurement of spare parts at Town	n, Zonal Cap. Reg. Capetc.		
l		l filter, Fuel filter, Pipesetc		
l		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.	nil.	
l	06-15 Other technical specimen	anization, Gov., Donoisetc.	1111.	
ĺ	55 25 Suidi Germicai specimen		••••••••••••••••••••••••••••••••	
			i	

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	Not grasped		
	07-02 Finalcial	NT . I		
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	Not grasped		
	Shourtage of budget to execute operation & maintenace 07-03 Other incidential, Special specimen	No budget		
	Increase in population to consume water coming from other towns, villagesetc	Coming from	a towns	-
	Change in industry increase factory, Tradingetc.	nil	II tOWIIS	
	Human conflict Ethnic, Administrativeetc			!
	07-04 Other specimen	Official		
	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"			
10	Current Water Coverage (%) (by water consumption at faucets)		%	
	Current Water Coverage (%) (by data of water source product))		%	
			T	
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	B / B	_
	A = Road Width > 6m / B = 37-6m / C = 1-3m / D = <1m			
12	Access road is Asphalt & Sub-grade 26km from Awasa. (=8+18km from Awasa)		1	+
13	Manpower Capability of Water Supply Management by Water Office point)		1	
1.4	Dgree of urgency (A / B / C / D / E)			-
14	Refer to Chapter 5 & 7			-
	Refer to Chapter 3 & 7		***************************************	
15	New Water Supply Plan			
15	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	re are some risks of	
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec			on
15				on
	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			on
	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.			on
16	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. Other Donors, NGO's			on
16	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.			on
16	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. Other Donors, NGO's Main Ethnic Group	the generally		on
16	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. Other Donors, NGO's Main Ethnic Group Health conditions	Oromo	y gentle hills, construction	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Health Center	y gentle hills, construction	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Center 27	y gentle hills, construction	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Health Cente 27 Mararia	y gentle hills, construction	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 27 Mararia Dysentery	er, Drug store, Health po	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 27 Mararia Dysentery Typhoid	er, Drug store, Health po	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 27 Mararia Dysentery Typhoid Diarrhea	er, Drug store, Health po	
16	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. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 27 Mararia Dysentery Typhoid Diarrhea Cholera	er, Drug store, Health po	
16 17 18	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. 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 27 Mararia Dysentery Typhoid Diarrhea Cholera others	er, Drug store, Health po 1,998 968 500 200 20 700	
16	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. 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 27 Mararia Dysentery Typhoid Diarrhea Cholera	er, Drug store, Health po 1,998 968 500 200 20 700	
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16 17 18	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. 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 27 Mararia Dysentery Typhoid Diarrhea Cholera others Farming, Tra	er, Drug store, Health po 1,998 968 500 200 20 700	ost
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16 17 18 19 20	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. 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 Particular comments: Water is distributed from sheshe town and adminstered by that community. Hence there is no s	Oromo Health Cente 27 Mararia Dysentery Typhoid Diarrhea Cholera others Farming, Tra	er, Drug store, Health po 1,998 968 500 200 20 700	ost
16 17 18 19 20	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. 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 Particular comments: Water is distributed from sheshe town and adminstered by that community. Hence there is no s This small town is a priority of tranquility for public safety.	Oromo Health Cente 27 Mararia Dysentery Typhoid Diarrhea Cholera others Farming, Tra	er, Drug store, Health po 1,998 968 500 200 20 700	ost
16 17 18 19 20	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. 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: Water is distributed from sheshe town and adminstered by that community. Hence there is no s This small town is a priority of tranquility for public safety. Remarks:	Oromo Health Cente 27 Mararia Dysentery Typhoid Diarrhea Cholera others Farming, Tra	er, Drug store, Health po 1,998 968 500 200 20 700	ost
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16 17 18 19 20	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. 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 Particular comments: Water is distributed from sheshe town and adminstered by that community. Hence there is no s This small town is a priority of tranquility for public safety. Remarks: Access is base cource for asphalt pavement. (Gravel road)	Oromo Health Center 27 Mararia Dysentery Typhoid Diarrhea Cholera others Farming, Tra	er, Drug store, Health po 1,998 968 500 200 20 700 ade	ost
16 17 18 19 20	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. 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: Water is distributed from sheshe town and adminstered by that community. Hence there is no s This small town is a priority of tranquility for public safety. Remarks: Access is base cource for asphalt pavement. (Gravel road) Mr. Abdulwahid Gemeda water supply & sanitation Exper	Oromo Health Center 27 Mararia Dysentery Typhoid Diarrhea Cholera others Farming, Tra	er, Drug store, Health po 1,998 968 500 200 20 700 ade	ost
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Data 7.2 Small Town Profile of Oromia Region

O-39 Intaye



O-40 Kabate

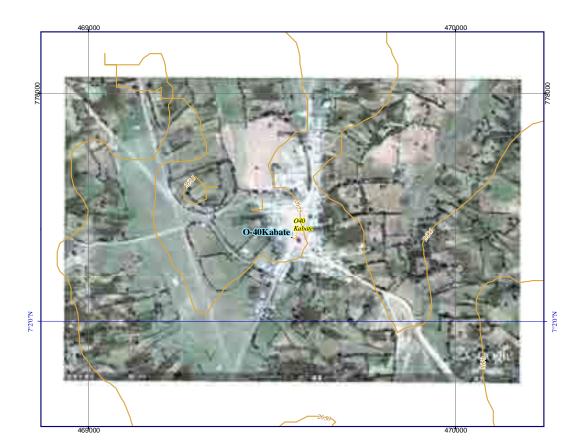
	Oromia Region		25 /30	
	Name of small town :	Kabate	O- 40	=
	Name of Woreda :	Kofele	OW- 08	
	Name of Zone :	West Arsi	OZ- 04	
	Name of Zone .	WCSL AISI	Profile	٠,
01	Population		Frome	-
01	Town male / female / total	by OWRB	2,042 2,104 4,140	6
	Woreda male / female / total	by Census 2007	90,000 89,508 179,508	
	percentage of Town in Woreda	.,	2.3%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	469466 777475	?
	Town Status		Town administration	
04	Water Source			
	04-01 Water source	Type, No.	BH Well * 2nos. (1/2 not function)	
	04-02 Well spec. Dep 04-03 Method of water draw	th., Casing Dia., S.W.L, Yield		_
	04-03 Method of water draw 04-04 Pump Spec.	Pump, Gravity Type, Yield	Pump Hand Pump	
	04-05 Power source for motorized pump	Type, Kva	Manual	
	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			
l				
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	2005	
	05-02 Financial of implementation	Donor's name	Not Grasped	
	05-03 Name of implementation (Project name)		Kabat kebele water supply project	
	05-04 Intake Type 05-05 Intake No.		Well (Hand dugwell)	_
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	2nos. (1 not function) nil.	
	05-06 Conveyance Type (water source ~ Reservoir) 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	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	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)		nil.	
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF)	no.	(Hand Pump 1/2 function) nil.	-
	05-20 Average of daily water consumption at a water point (PF)		Not Grasped	
	05-21 Number of House Connection (HC)	III3/Cddy	nil.	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.	
	05-23 Number of Business Conection (BC)		nil.	
		ol, Gov. office, Hospitaletc.	nil.	
	05-25 Average of daily water consumption of Business Connection (BC)	m3/day	nil.	
	05-26 Other technical specimen			
0.5				-
06	Operation and Maintenace		Water committee	-
	06-01 Organization's name 06-02 Type of organization Re	gional, Zone, Enterpriceetc.	Water committee	-
	06-02 Type of organization Re 06-03 Number of thechnical staff	gionai, Zone, Enterpriceetc.	Community based organization 4	-
	06-04 Principal works of technical staff		O&M	-
	06-05 Number of the financial staff		nil.	-
	06-06 Principal works of financial staff		nil.	+
		Point, House Connectionetc.		1
	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.	
		, Zonal Cap. Reg. Capetc.	Kofele	-
	06-11 Principal spare parts Oi	l filter, Fuel filter, Pipesetc office, Private companyetc	Worsda	-
	06-12 Method in case of serious repair by Regional 06-13 Principal serious repair with 5-10 years	omce, ruvate companyetc	Handpump broken	
		anization, Gov., Donorsetc.	Water committee	
	06-15 Other technical specimen			
	<u> </u>		L	

O-40 Kabate

07			
	Problem of actual town water supply		
	07-01 Technical		
	Water source Quantity, Qualityetc.	Water shorta	
	Water supply facility Decrepit, leakage, design failureetc	It is not cove	red for whole residence.
	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	
		Not Grasped	
	07-03 Other incidential, Special specimen		
	Increase in population to consume water coming from other towns, villagesetc		
	Change in industry increase factory, Tradingetc.	nil.	
	Human conflict Ethnic, Administrativeetc		
	07-04 Other specimen		
	0/-04 Otici specifici		
)8	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.		
)9	Necessary Institution (Facility, Material)		
-	Refer to Chapter 4 "Table 4.7"		
	incio o chapio i i auto i./	***************************************	
10	Current Water Coverage (%) (by water consumption at faucets)		7 %
	6m3day*1PF(HP)/0.02/4146persons=7.23%		
	Current Water Coverage (%) (by data of water source product))		%
			, , ,
11	Weter Detential (A / D / C / D / E)		ח
1 1	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
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m		
	Access is Asphalt & Sub grade (Only dry season) 35km from Sheshemane. (=26+9km from S	heshemane)	
13	Manpower Capability of Water Supply Management by Water Office (point)	1 1	8
	Manipower Capability of Water Suppry Management by Water Office Control		0
14	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
6	generally flat terrains, construction work is not difficult. Other Donors, NGO's		
U			
10	Ethiopian Red Cross		
.0	Ethiopian Red Cross		
	Ethiopian Red Cross Main Ethnic Group	Oromo	
		Oromo	
17	Main Ethnic Group	Oromo	
17	Main Ethnic Group Health conditions		
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	Health post 50 Dysentery	700
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health post	700 500
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health post 50 Dysentery	700
17	Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health post 50 Dysentery Diarrhea Typhoid	700 500 432
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 50 Dysentery Diarrhea	700 500 432
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 post 50 Dysentery Diarrhea Typhoid	700 500 432
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 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing
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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brea	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing
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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brea water levele completed and water found. The two existing 2 HDW have no manag`t, no fee co	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing
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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brewater levele completed and water found. The two existing 2 HDW have no manag`t, no fee colocated at the market place constructed by Arebs	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing
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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brea water levele completed and water found. The two existing 2 HDW have no manag`t, no fee co	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing
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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brewater levele completed and water found. The two existing 2 HDW have no manag`t, no fee colocated at the market place constructed by Arebs	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing 4 dug wells digging to ater is free for all, wells an
.9	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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene breawater levele completed and water found. The two existing 2 HDW have no manag`t, no fee co located at the market place constructed by Arebs Remarks: One of two Hand-pump is out of order due to low down of ground water level. Capacities of the state of the sta	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi	700 500 432 ing 4 dug wells digging to ater is free for all, wells an
.9	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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene breawater levele completed and water found. The two existing 2 HDW have no manag`t, no fee co located at the market place constructed by Arebs Remarks: One of two Hand-pump is out of order due to low down of ground water level. Capacities of the insufficient for the population of the town. Hence, Beneficiary of new water supply facility is	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi anch of which elected and w elected and w elected and w elected and w	700 500 432 sing 4 dug wells digging to ater is free for all, wells and ater supply facilities are
7 8 9 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 Main economic activities Particular comments: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brewater levele completed and water found. The two existing 2 HDW have no manag`t, no fee colocated at the market place constructed by Arebs Remarks: One of two Hand-pump is out of order due to low down of ground water level. Capacities of the insufficient for the population of the town. Hence, Beneficiary of new water supply facility is Mr. Feyisa Kebeto Water committee member Mr. Jemal Hasen Beneficary	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi anch of which elected and w elected and w elected and w elected and w	700 500 432 sing 4 dug wells digging to ater is free for all, wells and ater supply facilities are
7 8 9 0	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: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene breawater levele completed and water found. The two existing 2 HDW have no manag`t, no fee co located at the market place constructed by Arebs Remarks: One of two Hand-pump is out of order due to low down of ground water level. Capacities of the insufficient for the population of the town. Hence, Beneficiary of new water supply facility is	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi anch of which elected and w elected and w elected and w elected and w	700 500 432 sing 4 dug wells digging to ater is free for all, wells and ater supply facilities are
7 8 9 0	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 Particular comments: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brewater levele completed and water found. The two existing 2 HDW have no manag`t, no fee colocated at the market place constructed by Arebs Remarks: One of two Hand-pump is out of order due to low down of ground water level. Capacities of the insufficient for the population of the town. Hence, Beneficiary of new water supply facility is Mr. Feyisa Kebeto Water committee member Mr. Jemal Hasen Beneficary	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi anch of which elected and w elected and w elected and w elected and w	700 500 432 sing 4 dug wells digging to ater is free for all, wells and ater supply facilities are
7 8 9 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 Main economic activities Particular comments: additional 15 Hand dug wells are under construction by Ethiopian Red Cross Shashemene brewater levele completed and water found. The two existing 2 HDW have no manag`t, no fee colocated at the market place constructed by Arebs Remarks: One of two Hand-pump is out of order due to low down of ground water level. Capacities of the insufficient for the population of the town. Hence, Beneficiary of new water supply facility is Mr. Feyisa Kebeto Water committee member Mr. Jemal Hasen Beneficary	Health post 50 Dysentery Diarrhea Typhoid Trade, Farmi anch of which elected and w elected and w elected and w elected and w	700 500 432 sing 4 dug wells digging to ater is free for all, wells and ater supply facilities are
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Data 7.2 Small Town Profile of Oromia Region

O-40 Kabate



O-41 Awasho-Dhanku

	Oromia Region		2	26 /30
	Name of small town :	Awasho-Dhar	nku (D- 41
	Name of Woreda :	Shesheman	e OV	V- 14
	Name of Zone :	West Arsi	Ož	Z- 04
	Profile items		Profile	
01	Population	1 OHED	2.400	50 5040
	Town male / female / total Woreda male / female / total	by OWRB by Census 2007	3,488 3,5 123,667 124,3	
	percentage of Town in Woreda	by Celisus 2007	123,007 124,3	2.8%
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	461770 7939	
	Town Status		Kebele Association	
04	Water Source		DII #1 (D :II:	1.0
	04-01 Water source 04-02 Well spec. Dep	Type, No. oth., Casing Dia., S.W.L, Yield	BH *1no. (Drilling con	
	04-03 Method of water draw	Pump, Gravity	nil.	/L::III
	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	not operation	
	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)	Nov. 2010 (Only Well	
	05-02 Financial of implementation	Donor's name	NGO (Day Saint Chari	ties)
	05-03 Name of implementation (Project name)		unknown	
	05-04 Intake Type 05-05 Intake No.		Well (BH only) 1no.	
	05-05 Intake No. 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	Type	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)			
	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) 05-20 Average of daily water consumption at a water point (PF)	no.) m3/day	nil. nil.	
	05-21 Number of House Connection (HC)) 1113/day	nil.	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.	
	05-23 Number of Business Conection (BC)		nil.	
	71	ol, 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.	
		egional, Zone, Enterpriceetc	nil.	
	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 06-07 Categories of water tariff W.	Point, House Connectionetc.		
	06-08 Water tariff rate	. o.i., House Connectionetc.		
	Water point (Public faucet)	Birr/L, 20L	(0.2birr/20L under Des	ign
	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. il filter, Fuel filter, Pipesetc		
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	companyetc	nil.	
		ganization, Gov., Donorsetc.	nil.	
	06-15 Other technical specimen			

O-41 Awasho-Dhanku

Data 7.2 Small Town Profile of Oromia Region

07	D-11					
07	Problem of actual town water supply 07-01 Technical					
		NT /	1			
	Water source Quantity, Qualityetc					
	Water supply facility Decrepit, leakage, design failure	etc.Not gras	pea			
	07-02 Finalcial					
	Management	Not gras				
	Rate of water tarrif collection	Not gras				
	Personnel expenses	Not gras				
	Shourtage of budget to execute operation & maintenace	Not gras	ped			
	07-03 Other incidential, Special specimen					
	Increase in population to consume water coming from other towns, villages	etc.coming f	from ot	ther villag	ges	
	Change in industry increase factory, Trading	etc.nil.				
	Human conflict Ethnic, Administrative	etc nil.				
	07-04 Other specimen					
18	Geographical condition (Slope on mountaion, bottom of valley, Top of ridge	etc.)				
,,,	Town: Flat area		······			
	Town . I lat alca					
20	N. T. de d. off. 195 Mee 2.15					
)9	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))				%	
11	Water Potential (A / B / C / D / E)					
-						<u> </u>
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/	E=Not Approache	ed		A / A	-
	Accessionity $(A / B / C / D / E)$ A-Aspirato B-base course C-sub-Grade B-only Bry Season. A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1			r	- / * *	
	Access road is Asphalt 6km from Sheshemane. * Refer to Chapter 5 "Table 5-7: Categor		ilitar"			
12		ines of accessib	riity		9	
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					
	Refer to Chapter 5 & 7					
					-	
	New Water Supply Plan					
	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance	ed technology.	The sn	mall town	is on the	
	New Water Supply Plan	ed technology.	The sn	mall town	is on the	
15	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance generally flat terrains, construction work is not difficult.	ed technology.	The sn	mall town	is on the	
15	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance generally flat terrains, construction work is not difficult. Other Donors, NGO's	ed technology.	The sn	nall town	is on the	
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15 16	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group		The sn	nall town	is on the	
15 16	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	Oromo				
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15	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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	Oromo Private c Dysenter Diarrhea Typhoid Malaria	olinie, I 11 ry	Drug store 801 400 350		
15 16 17	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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	Oromo Private c Dysenter Diarrhea Typhoid	olinie, I 11 ry	Drug store 801 400 350		
15 16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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 c Dysenter Diarrhea Typhoid Malaria	olinie, I 11 ry	Drug store 801 400 350		
16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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 c Dysenter Diarrhea Typhoid Malaria Farming	elinic, I 11 ry	801 400 350 150		
.5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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	Oromo Private c Dysenter Diarrhea Typhoid Malaria Farming	elinic, I 11 ry	801 400 350 150		
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15 16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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 whice One well has construted by NGO on 2010. Other water supply facility is pending to designed the supplementation of the su	Oromo Private c Dysenter Diarrhea Typhoid Malaria Farming	elinic, I 11 ry	801 400 350 150		
15 16 17 18 19 20	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advance 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 whice One well has construted by NGO on 2010. Other water supply facility is pending to designed the supplementation of the su	Oromo Private c Dysenter Diarrhea Typhoid Malaria Farming	elinic, I 11 ry	801 400 350 150		
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O-41 Awasho-Dhanku

Data 7.2 Small Town Profile of Oromia Region

A61000 A63000 A6

38°39'0"E

O-42 Hursa

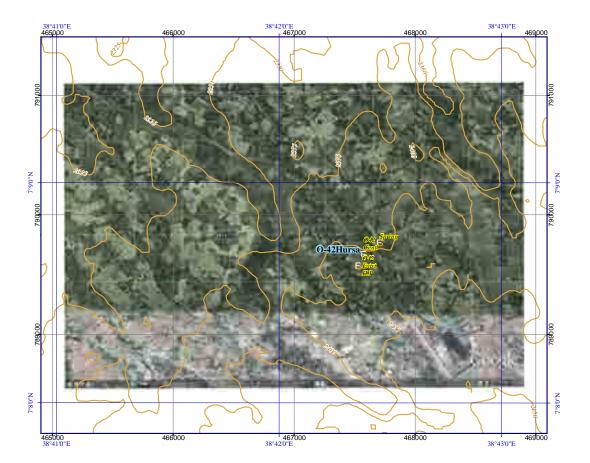
	Oromia Region			27 /30	_
	Name of small town		Hursa	O- 42	
	Name of Woreda	:	Shesheman		
	Name of Zone		West Arsi	OZ- 04	1_
		Profile items		Profile	!
1	Population		,		
	Town	male / female / total	by OWRB	2,790 2,910 5,700	
	Woreda	male / female / total	by Census 2007	123,667 124,355 248,022	
2	percentage of Town in Word Town Coordination		Easting / Northig / Alt.	2.3%	_
_	Town Coordination Town Status	UTM (Adindan)	Easting / Norting / Ait.	467482 789539 2,395 Kebele administration	+
_	Water Source			Redete autilitisu auton	+
_ L	04-01 Water source		Type, No.	Well*1no. / Spring*1no. (not function)	1)
<u></u>	04-02 Well spec.	48.	Depth., Casing Dia., S.W.L, Yield		1
	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		Type, Kva	nil. / nil.	
ş.,	04-06 Durartion of water draw (Op	peration hours)		40L/house Hand pump / not function	Ţ
	04-07 Water quality		Iron, Fluorideetc.	good (well) / abandon	
(04-08 Other technical specimen				
4				<u> </u>	╄
	Existing Water Supply Facilities		(C :ll)	2000 (H. I.) (2001 (Si)	-
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar)	2008 (Hand pump) / 2001 (Spring) NGO (LVI) with EU / OWRB	+
	05-02 Financial of implementation (Pi			Hursa Hand Dug Well Project / unknown	_
	05-03 Intake Type	rojeci name)		Hand Dug Well / Spring	-
	05-05 Intake No.			1 / 1	-
	05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	nil.	+
	05-07 Power to convey	Juree Reservan,	Pressure, Gravity	nil.	+
· .	05-08 Water treatment		Disinfection, Ironetc.	nil.	+
	05-09 Water treatment capacity	aktoria de la constanta de la	m3/day	nil.	\top
	05-10 Water reserver type		Туре	nil.	1_
	05-11 Water reserver No.			nil.	
	05-12 Water reserver Capacity		m3	nil.	T
	05-13 Transmission Type (Booster	r pump Stn. ~ Reservoir	· · · · · · · · · · · · · · · · · · ·	nil.]
h-	05-14 Power to transmit		Pressure, Gravity	nil.	_
- 5-	05-15 Distribution Type		Pipe material, length	nil.	4
	05-16 Power to distribute	· · · · D. L.L. E DE	,,	nil. nil.	4-
	05-17 Structure Type of water point (Pub 05-18 Number of water point (Pub			nil.	-
	05-18 Number of water point (Pub 05-19 Number of faucet at a water		no. PF) no.	nil.	+
	05-19 Number of faucet at a water 05-20 Average of daily water cons			4m3/day (20L*200 times) by HP	-
	05-21 Number of House Connection		ii (F1) 1113/Gay	nil.	+
	05-22 Average of daily water consum		on(HC) m3/day	nil.	-
	05-23 Number of Business Conect		110, 41	nil.	+
	05-24 Type of Business Connection		, School, Gov. office, Hospitaletc.		+
	05-25 Average of daily water consump			nil.	
Ī	05-26 Other technical specimen			nil.	1
					-
	Operation and Maintenace				I
	06-01 Organization's name			Water committee	1
	06-02 Type of organization		Regional, Zone, Enterpriceetc.	Community base	_
- 1	06-03 Number of thechnical staff			1	-
	06-04 Principal works of technical			Repair of Hand Pump	_
	06-05 Number of the financial staf			6	4
	06-06 Principal works of financial	staft	W.B.: (H. Connection at	Money correction	+
, j.,	06-07 Categories of water tariff	***************************************	W.Point, House Connectionetc.	.1 (Hand Pump)	-
1	06-08 Water tariff rate Water point (Public faucet)	***************************************	D:/I 201	2.0 birr / house / month (for HP)	-
ŀ	House connection		Birr/L, 20L Birr/m3	nil.	+
ŀ	Business connection		Birr/m3	nil.	+
ĺ	06-09 Average monthly income by	v water tariff	Birr/month	200 birr/month (for HP) / Free (Spring)	1
	06-10 Procurement of spare parts			<u> </u>	+
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		+
	06-12 Method in case of serious re	enair by Re	egional office, Private companyetc		-
j.,	06-13 Principal serious repair with		ground office, 111. de ee	nil.	+
	06-14 Fund for above 6-09, 6-10		by Organization, Gov., Donorsetc.		+
- 1			J 4-80 , , ,		_

O-42 Hursa

07	Problem of actual town water supply			
	07-01 Technical Water source Ouantity, Oualityetc.	Shortage wat	to a	
			iei	
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		
	07-02 Finalcial	Look of abili	ad mannarian	
	Management Rate of water tarrif collection		ed manpower	
		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		ouse hold (50 to 100)	
	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: Flat area			
19	Necessary Institution (Facility, Material)			
))	Refer to Chapter 4 "Table 4.7"			
	Refer to Chapter + Table +.7	***************************************		
1.0	Comment Western Comment (0/) (for most on a comment of the comment		2.50/	
10	Current Water Coverage (%) (by water consumption at faucets) [4m2**IDE+0m2**OLC+0m2**ODC) 4m2/dov; 4m2/20Lead = 200 persons 200 persons (5700)	. m c.mv-1-+'	3.5%	
	(4m3*1PF+0m3*0HC+0m3*0BC)=4m3/day 4m3/20Lpcd.= 200persons / 5700	population =		
	Current Water Coverage (%) (by data of water source product))		3.5%	
	(4m3*1PF+0m3*0HC+0m3*0BC)=4m3/day 4m3/20Lpcd.= 200persons 200persons / 5700	population =		
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 > $6m / B= >3 \sim 6m / C= 1 \sim 3m / D= <1m$			
	Access road is Asphalt 13km from Sheshemane. * Refer to Chapter 5 "Table 5-7: Categories o	f accessibility	/"	
13	Manpower Capability of Water Supply Management by Water Office point)		10	
	Transporter capacitaty of water supply framagement by water office going			
1.4	Dgree of urgency (A / B / C / D / E)			
14	Refer to Chapter 5 & 7			
	Refer to Chapter 3 & 7			
15	New Water Supply Plan			
15		hnology The	small town is on the	
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the	
15		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. Other Donors, NGO's	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 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 tec generally flat terrains, construction work is not difficult. Other Donors, NGO's	hnology. The	small town is on 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 Refer to the Chapter 6 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, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 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, 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	e, Drug store, Health	
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 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	
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 Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Private clinic 23 Dysentery	c, Drug store, Health	
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 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	2,000 500	
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 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 Typhoid	2,000 500 500	
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 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	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others	2,000 500	
.7	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 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 Typhoid	2,000 500 500	
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 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	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others	2,000 500 500	
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 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	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others	2,000 500 500	
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 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	
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 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:	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
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 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: 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	post
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 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: 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) residents. Therefore, new water supply facility has high beneficial effect.	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
.7.8	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 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: 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) residents. Therefore, new water supply facility has high beneficial effect. Remarks:	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
.7.8	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 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: 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) residents. Therefore, new water supply facility has high beneficial effect.	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
.7 .8	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 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: 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) residents. Therefore, new water supply facility has high beneficial effect. Remarks:	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
6 7 8 9	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 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) residents. Therefore, new water supply facility has high beneficial effect. Remarks: Access is asphalt pavement road.	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
6 7 8 9	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 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: 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) residents. Therefore, new water supply facility has high beneficial effect. Remarks:	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
.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 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 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) residents. Therefore, new water supply facility has high beneficial effect. Remarks: Access is asphalt pavement road.	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming	2,000 500 500 1,000	post
.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 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) residents. Therefore, new water supply facility has high beneficial effect. Remarks: Access is asphalt pavement road.	Oromo Private clinic 23 Dysentery Diarrhea Typhoid others Farming is not enough	2,000 500 500 1,000	post
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Data 7.2 Small Town Profile of Oromia Region

O-42 Hursa



O-43 Hidi-Lola

Data 7.2 Small Town Profile of Oromia Region

	Oromia Region		28 /30	
	Name of small town :	Hidi-Lola	O- 43	
	Name of Woreda :	Mijo (Miyo)		
	Name of Zone :	Borena	OZ- 02	
	Profile items		Profile	!
01		by OWRB by Census 2007	3,200 3,350 6,550 not listed not listed #VALUE!	
)2		Easting / Northig / Alt.	453259 413542 1,362	
	Town Status		Municipally	
4	Water Source		W. H. Gl. H. W. Hee	
		Type, No. h., Casing Dia., S.W.L, Yield	Well, Shallow Well*5nos.	
		Pump, Gravity	Pump	
		Type, Yield	Motorized pump, Manual	
		Type, Kva	(Generator)	
	<u> </u>	daily hours, time	(14hrs//day or more)	
		Iron, Fluorideetc.	Hardness	
	04-08 Other technical specimen			
_				
)	Existing Water Supply Facilities	(Cronomian ad	Not grospod	
	,	(Gregorian calendar) Donor's name	Not grasped Not grasped	
	05-03 Name of implementation (Project name)	DOHOL 2 HAIRE	Not grasped (Private)	
	05-04 Intake Type		Well, Shallow Well*5nos.	
	05-05 Intake No.		Well*1no., Handdug wells*5nos.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2*1/2", 6,000m, Nil (Handbug)	
		Pressure, Gravity	(Pressure)	
		Disinfection, Ironetc.	nil.	
		m3/day	nil.	
		Туре	GR (Not operation)	
		no. m3	1no. 100m3	
	1	Pipe material, length	nil.	
		Pressure, Gravity	nil.	
		Pipe material, length	See below memo (Not operation)	
	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	
	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)	m3/day	Not grasped (Not operation)	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil. nil.	
	05-23 Number of Business Conection (BC)	III3/day	nil.	
		l, 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		Private	
		gional, Zone, Enterpriceetc.		
	06-03 Number of thechnical staff	jonar, Zone, Emerpriceetc.	15	
	06-04 Principal works of technical staff		Well cleaning (Hand dug wells)	
	06-05 Number of the financial staff		5	
	06-06 Principal works of financial staff		Water sale	
		oint, House Connectionetc.	W. Point	
	06-08 Water tariff rate	D. 1 201	0.51. /001	
	<u> </u>	Birr/L, 20L	0.5birr/20L	
		Birr/m3 Birr/m3	nil. nil.	
		Birr/month	Not grasped	
			nil.	
	<u></u>	filter, Fuel filter, Pipesetc		
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Not grasped	
	06-14 Fund for above 6-09, 6-10 by Organ	nization, Gov., Donorsetc.	Private	
	06-15 Other technical specimen			

O-43 Hidi-Lola

07	Problem of actual town water supply			
	07-01 Technical Water source Ouantity, Oualityetc.	Water quality	r. (Handnaga)	
	Water source Quantity, Qualityetc. Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial	rvot operation	if due to water quarity	
	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	<u> </u>		
	Increase in population to consume water coming from other towns, villagesetc	Increasing G	lov. employees	
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	nil. (at presei	nt)	!
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town is on the slope of mountain & flat area.			
09	Necessary Institution (Facility, Material)			
	New water source (Well) and pipe netwok (replaced pipes)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by data of consumption at faucet)	1	22.0/	-
10			23 %	
	6m3day*5PF(HP)/0.02/6550 Current Water Coverage (%) (by water product at wells and/or springs)		%	
	(??L.sec.*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/5590population=??9	6	70	
11	Water Potential $(A/B/C/D/E)$	U	Е	-
11	macri Scendar (III D) C) D) D)	***************************************		
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= $>3~6$ m $/$ C= $1~3$ m $/$ D= <1 m	Трргоценей	E/E	_
	Access road is Base course and Sub Grade 145km from Yabello, 340km from Dila.			
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			
	Neier to Chapter 5 & 7			
15	New Water Supply Plan	hnology. The	ere are some risks of	
				ion
	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.			ion
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16	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. Other Donors, NGO's nil. Main Ethnic Group Health conditions	Oromo	y flat terrains, constructi	ion
16	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. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	Oromo Health Center	y flat terrains, constructi	ion
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16 17 18	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. 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 Health Cente 90 Mararia Dysentery	er, Private clinic 3,000 2,400	ion
16 17 18	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. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Oromo Health Cente 90 Mararia	er, Private clinic 3,000 2,400	ion
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O-43 Hidi-Lola



O-44 Fincadaa

	Oromia Region		29 /30	
	Name of small town :	Fincadaa	O- 44	
	Name of Woreda :	Dugda Daw	a OW- 13	•
	Name of Zone :	Borena	OZ- 02	
	Profile items		Profile	!
01	Population			
	Town male / female / total Woreda male / female / total	by OWRB by Census 2007	3,552 3,648 7,200 not listed not listed not listed	
	percentage of Town in Woreda	by Celisus 2007	#VALUE!	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	419588 596399 1,605	
_	Town Status	<u> </u>	Municipally	
04	Water Source			
	04-01 Water source	Type, No. oth., Casing Dia., S.W.L, Yield	Well * 2nos.	
	04-02 Well spec. Dep 04-03 Method of water draw	Pump, Gravity	Pump	ļ
	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	06:00-^10:00, 16:00-20:00 (8hrs./day)	
	04-07 Water quality	Iron, Fluorideetc.	good	ļ
l	04-08 Other technical specimen			ļ
05	Existing Water Supply Facilities			1
	05-01 Established year	(Gregorian calendar)	1979 / 2000	<u> </u>
	05-02 Financial of implementation	Donor's name	OWRB / VOCA	
	05-03 Name of implementation (Project name)		Fincadaa water project	
	05-04 Intake Type		Well	
	05-05 Intake No.	D:	2nos.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	GIP, 2*1/2", 1,100m Pressure	ļ
	05-07 Power to convey 05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	l
	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.	ļ
	05-14 Power to transmit	Pressure, Gravity	nil. See below memo	
	05-15 Distribution Type 05-16 Power to distribute	Pipe material, length Pressure, Gravity	Gravity	ļ
	05-17 Structure Type of water point (Public Faucet, PF)		Mansonry	
	05-18 Number of water point (Public Faucet, PF)	no.	12 (10 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 (PF)) m3/day	Not grasped	
	05-21 Number of House Connection (HC)		100	ļ
	05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC)	m3/day	1.1m3/day 10	ļ
		ol, Gov. office, Hospitaletc.		ļ
	05-25 Average of daily water consumption of Business Connection (BC)		0.6m3/day	
	05-26 Other technical specimen			<u> </u>
06	Operation and Maintenace		Final Lines	<u> </u>
	06-01 Organization's name 06-02 Type of organization Re	ogional Zona Enterprisa esta	Finchwula Limat Community based organization	
	06-03 Number of thechnical staff	egionai, Zone, Enterpriceetc.	3	
	06-04 Principal works of technical staff		Pump operation, Plumbing	
	06-05 Number of the financial staff		7	
	06-06 Principal works of financial staff		Water sale, Bill	
		Point, House Connectionetc.	W. Point	ļ <u> </u>
	06-08 Water tariff rate	D: 4 201	601: (-2	ļ
	Water point (Public faucet)	Birr/L, 20L	6.0birr/m3 ditto	<u> </u>
	House connection Business connection	Birr/m3 Birr/m3	ditto	-
	06-09 Average monthly income by water tariff	Birr/month	12,000birr/month	
		n, Zonal Cap. Reg. Capetc.		†
		il filter, Fuel filter, Pipesetc		1
	06-12 Method in case of serious repair by Regional	office, Private companyetc	Zone, Private	
	06-13 Principal serious repair with 5-10 years		Not grasped	
		anization, Gov., Donorsetc.	Region	ļ
l	06-15 Other technical specimen			
1			I	1

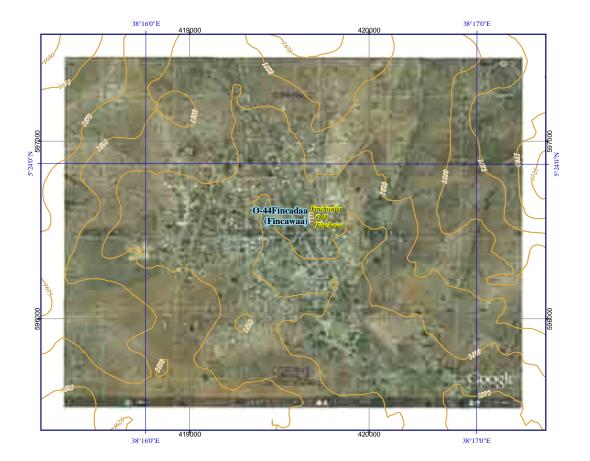
O-44 Fincadaa

Data 7.2 Small Town Profile of Oromia Region

07			
	<u> </u>		
	07-01 Technical	XX (C1 (
	Water source Quantity, Qualityetc.	Water Shorta	
	Water supply facility Decrepit, leakage, design failure	.etc.Design failure	e (double well pumping etc.)
	07-02 Finalcial Management	nil.	
	Rate of water tarrif collection	Not grasped	
	Personnel expenses	free	
	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, villages	ata nil	
	Change in industry increase factory, Trading		
	Human conflict Ethnic, Administrative		
	07-04 Other specimen	.ciciiii.	
	07-04 Other specifical		
R	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgee	etc.)	
O	Town is on the flat area slightly sloping towards east.		
9	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
0	Current Water Coverage (%)		122 %
	(6m3*10PF+1.1m3*100HC+0.6m3*10BC)=176m3/day 176m3/20Lpcd.=8800persons	8800persons/7,20	00population=122%
	Current Water Coverage (%) (by data of water source product))		%
	((3.0L+??L)*3600min*8hrs)=???L ????L/20L=???persons ???persons/7200population=??	??%	
1			Е
2	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 > $6m / B= >3 - 6m / C= 1 - 3m / D= <1m$	l	
	Access road is Asphalt road 30km from Agremariam, 126km from Dila.		
13	Manpower Capability of Water Supply Management by Water Office point)		11
4	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
6	generally flat terrains, construction work is not difficult. Other Donors, NGO's	***************************************	
	Refer to the Chapter 6		
17	M: F4: C		
l /	Main Ethnic Group		
		Oromo	
10	Harlah and Richard	Oromo	
18	Health conditions		Divine Visit Description
8	-1 Medical facilities in Town	Health Cente	er, Private clinic, Drug stor
18	-1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente	
8	-1 Medical facilities in Town	Health Cente 30 Mararia	4,000
8	-1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 30 Mararia Typhoid	4,000 2,160
.8	-1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 30 Mararia Typhoid Dysentery	4,000 2,160 720
	-1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720 7,000
	-1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720
.9	-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities	Health Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720 7,000
19	-1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Health Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720 7,000
.9	-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities	Health Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720 7,000
19	-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Main economic activities	Health Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720 7,000
19	-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 Cente 30 Mararia Typhoid Dysentery others	4,000 2,160 720 7,000
19	-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:	Health Cente 30 Mararia Typhoid Dysentery others Trade, Farmi	4,000 2,160 720 7,000 ing, Livestock
9	-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: Out of the study area. Mr. Mulunehe Adugna A/Head of woreda water office	Health Cente 30 Mararia Typhoid Dysentery others Trade, Farmi	4,000 2,160 720 7,000 ing, Livestock
9	-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: Out of the study area. Mr. Mulunehe Adugna A/Head of woreda water office Mr. Denbobi Dulecha water supply expert Mob. 09132	Health Cente 30 Mararia Typhoid Dysentery others Trade, Farmi	4,000 2,160 720 7,000 ing, Livestock
9 .0	-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: Out of the study area. Mr. Mulunehe Adugna A/Head of woreda water office Mr. Denbobi Dulecha water supply expert Mob. 09132 Mr. Dawit Duba plumber Mob. 0916519935	Health Cente 30 Mararia Typhoid Dysentery others Trade, Farmi	4,000 2,160 720 7,000 ing, Livestock
9 .0	-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: Out of the study area. Mr. Mulunehe Adugna A/Head of woreda water office Mr. Denbobi Dulecha water supply expert Mob. 09132	Health Cente 30 Mararia Typhoid Dysentery others Trade, Farmi	4,000 2,160 720 7,000 ing, Livestock
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19 20 21	-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: Out of the study area. Mr. Mulunehe Adugna A/Head of woreda water office Mr. Denbobi Dulecha water supply expert Mob. 09132 Mr. Dawit Duba plumber Mob. 0916519935 mo (Town sketchetc.): 04-02 Well spec. Well; Estbsh on 1979 GL-71m / 6*5/8" / SWL GL-??m / ??L/sec.	Health Cente 30 Mararia Typhoid Dysentery others Trade, Farmi	4,000 2,160 720 7,000 ing, Livestock
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Data 7.2 Small Town Profile of Oromia Region

O-44 Fincadaa



O-45 Adulala

	Oromia Region	30 /30	
	Name of small town : Adulala	O- 45	
	Name of Woreda : Liben	OW- 24	
	Name of Zone : East Shows	OZ- 03	
	Profile items	Profile	!
01	Population Town male / female / total by OWRB	1,787 1,814 3,601	
	Town male / female / total by OWRB Woreda male / female / total by Census 2007	1,787 1,814 3,601 not listed not listed	
	percentage of Town in Woreda	#VALUE!	
02	Town Coordination UTM (Adindan) Easting / Northig / Alt.	532071 937668 1,675	
	Town Status	Town Administration	
04	Water Source	nil.	
	04-01 Water source Type, No. 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.	
l	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. 04-08 Other technical specimen	nil.	
l	04-06 Other recinical specifien		
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) 05-04 Intake Type	nil.	
	05-04 Intake 1 ype 05-05 Intake No.	nii.	
	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 Type 05-11 Water reserver No. no.	nil.	
	05-11 Water reserver No. no. 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	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.	nii.	
	05-18 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)	nil.	
	05-22 Average of daily water consumption of House Connection(HC) m3/day	nil.	
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, School, Gov. office, Hospitaletc.	nil.	
	05-24 Type of Business Connection (BC) Factory, School, 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.	
	06-06 Principal works of financial staff	nil.	
	06-07 Categories of water tariff W.Point, House Connectionetc.	• · · · · · · · · · · · · · · · · · · ·	
	06-08 Water tariff rate	nil.	
	Water point (Public faucet) Birr/L, 20L House connection Birr/m3	nil.	
	Business 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. 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 06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donorsetc.	nil.	
	06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donorsetc.	1111.	
	55 15 Cares Common specimen		

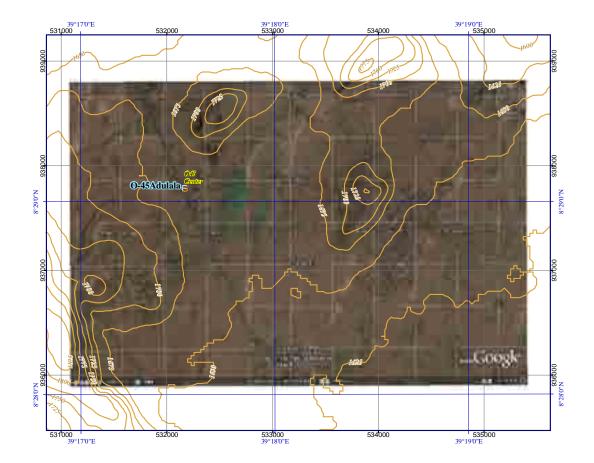
O-45 Adulala

Data 7.2 Small Town Profile of Oromia Region

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	nil.		
	Water supply facility Decrepit, leakage, design failureetc	nil.		
	07-02 Finalcial			
	Management	nil.		
	Rate of water tarrif collection	nil.		
	Personnel expenses	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	n villagers	
	Change in industry increase factory, Tradingetc.			
		1111.		
	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town is on the flat area.			
00	N. J. C. C. T. M. C. D.			+
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
l				
10	Current Water Coverage (%) (by water consumption at faucets)		%	
1				
l	Current Water Coverage (%) (by data of water source product))		%	
l	Current train coverage (70) (by data of water source product))		70	
L.	W. D. H. (1.17.42.17.17.			
11	Water Potential (A / B / C / D / E)		Е	
L				
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	E/E	
1	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
l	Access road is Asphalt road 14km from Adama. * Refer to Chapter 5 "Table 5-7: Categories	of accessibility	ty"	
- 10		or accessionii	•	
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	Now Water Completible			
15	New Water Supply Plan			
15		chnology The	small town is on the	
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		small town is on the	
15			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 arround water		small town is on the	
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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 arround water Other Donors, NGO's	sources.	small town is on the	
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Data 7.2 Small Town Profile of Oromia Region

O-45 Adulala



S-01 Buei

	SNNPR Name of small town	•	Buei		1 / 5 S- 01	
	Name of Small town		Sodo		S- 01 SW- 01	-
		:				
	Name of Zone	Profile items	Gurage	, 	SZ- 01 Profile	l
1	Population	1 total tems			Tronc	
	Town	male / female / total	by SNNPR	3,720	3,241	6,96
	Woreda	male / female / total	by Census 2007	67,110	67,524	134,63
_	percentage of Town in Wo		E di /NI di /Ali	450564	010605	5.29
	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	450564 Wareda Capital	919685	2,02
	Water Source			wareda Capitai		
	04-01 Water source		Type, No.	BH Well * 3nos. (1	no. Function)	
	04-02 Well spec.		Depth., Casing Dia., S.W.L, Yiel			
	04-03 Method of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.	1	Type, Yield	Motorized pump	11	C N 0
	04-05 Power source for motorize 04-06 Durartion of water draw (Control of the Control	Type, Kva daily hours, time	Elec. Line and Star 06:00-12:00, 15:00			
	04-07 Water quality	peration nours)	Iron, Fluorideetc.	Good	-24:00 (13IIIs/u	iay)
	04-08 Other technical specimen		iron, i tuorideetc.	nil.		
5	Existing Water Supply Facilities					
	05-01 Established year		(Gregorian calendar)	1st. 1971 / 2nd. 200		
	05-02 Financial of implementation		Donor's name	1st. SNNPR / 2nd.	Unicef	
	05-03 Name of implementation (Project name)		Buei water project		
	05-04 Intake Type			Well		
	05-05 Intake No. 05-06 Conveyance Type (Water s	Postryoir)	Pipe material, length	3 (1 under operatio	n)	
	05-07 Power to convey	source ~ Reservoir)	Pressure, Gravity	Pressure		
	05-07 Tower to convey 05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Type	Ground Reservoir		
	05-11 Water reserver No.		no.	lno.		
	05-12 Water reserver Capacity		m3	100m3		
	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	see bellow memo Gravity		
	05-17 Structure Type of water po	int (Public Faucet PF)	RC, Masonry, Pipeetc			
	05-18 Number of water point (Pu		no.	20 nos.		
	05-19 Number of faucet at a water			4 or 6 nos.		
	05-20 Average of daily water cor			0.745m3/day (=4	47m3/30day/20	PF)
	05-21 Number of House Connect			938		
	05-22 Average of daily water cor		ction m3/day		60m3/30day/93	88)
	05-23 Number of Business Coned	ction (BC)		25		
	05-24 Type of Business Connecti 05-25 Average of daily water consum		chool, Gov. office, Hospitalet			l*6, Factry
	05-26 Other technical specimen	iption of Business Connection	(BC) m3/day	0.6m3/day (=1 nil.	8m3/30day)	
	03-26 Other technical specimen			11111.		
6	Operation and Maintenace			1		
	06-01 Organization's name			Town Water Office	,	
	06-02 Type of organization		Regional, Zone, Enterpriceet	c.Town		
	06-03 Number of thechnical staff			5		
	06-04 Principal works of technica			Operation / Plumbi	ng	
	06-05 Number of the financial sta			9 D 137 M (D	711	
	06-06 Principal works of financia 06-07 Categories of water tariff	ıı starı	W.Point, House Connectionet	Read W. Meter / B		action)
	06-08 Water tariff rate		w.Foliit, House Connectioned	z. F1 / 11. Connection	(IIICI. B. COIIIIC	ection)
	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	y water tariff	Birr/month	15,000 birr/month		
	06-10 Procurement of spare parts	at T	Yown, Zonal Cap. Reg. Capetc			
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipeset	c Water Meter, Pipes		er
	06-12 Method in case of serious i		onal office, Private companyet			
	06-13 Principal serious repair wit	h 5-10 years		Pump motor was b		
	06-14 Fund for above 6-09, 6-10	by	Organization, Gov., Donorset	c. Town Water Office	;	
	06-15 Other technical specimen			nil.		

S-01 Buei

07	D., blft - l t	
U/	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. Reservoir, Volume of Pipe line
	07-02 Finalcial	
	Management	Delay of payment 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	110 Tesponse
	Increase in population to consume water coming from other towns, villagesetc	I I - 1
	Human conflict Ethnic, Administrativeetc	
	07-04 Other specimen	No response
98	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	<u> </u>
	Town: Flat area	
09	Necessary Institution (Facility, Material)	
	Refer to Chapter 4 "Table 4.7"	
10	Current Water Coverage (%) (by water consumption of favors)	149%
10	Current Water Coverage (%) (by water consumption at faucets)	
	(0.745m3*20PF+0.19m3*938HC+0.6m3*25BC)=208m3/day 208m3/20Lpdc.= 10,406 perso	
	Current Water Coverage (%) (by data of water source product))	331%
		ersons/6961population=331%
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=N	Not Approached A / B
	A=all paved, B=Paved + Base Couse + Sub-grade, C=Paved+Sub-grade+Dry season only, D=	Sub-grade+Dry season only, E=Out of the stu
	* Refer to Chapter 5 "Table 5-7: Categories of accessibility"	
13	Manpower Capability of Water Supply Management by Water Office point)	14
1/1	Dgree of urgency (A / B / C / D / E)	
14	Refer to Chapter 5 & 7	
	Refer to Chapter 3 & 7	
15	New Water Supply Plan	
15		
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The small town is on the generally fl
15		hnology. The small town is on the generally fl
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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 Gurage Health Center, Private clinic, Drug store 30 Mararia 9,715 Dysentery 3,931
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117 118 119 220	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: Ot-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 Well No.3; Estbsh on 1999 GL-158m / Casing dia.8" / SWL GL-??m / 8.0L/sec. 05-06 Conveyance Type (Water source ~ Reservoir) Well No.1; GIP / ND-2" / L=1,350m Well No.3; nil. (not installed pump) 05-15 Distribution Type ND-4"=200m ND-2"=2,660m ND-1"=197m	Kestane Gurage Health Center, Private clinic, Drug store 30 Mararia 9,715 Dysentery 3,931 Trade Ato Alemayehu H/Water supply Service Abandon By Generator Unter operating BH completed (Not yet use)
117 118 119 220	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: well No.1; Estbsh on 1971 GL-87m / Casing dia.8" / SWL GL-??m / 3.3L/sec. Well No.3; Estbsh on 2010 GL-158m / 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. 05-06 Conveyance Type (Water source ~ Reservoir) Well No.1; GIP / ND-2" / L=1,350m Well No.2; GIP / ND-3" / L=2,015m Well No.3; nil. (not installed pump) 05-15 Distribution Type ND-4"=200m ND-2"=2,660m ND-1"=197m ND-3"=1,050m ND-1"=197m ND-3"=1,050m ND-1"=1/2"=2,339m	Kestane Gurage Health Center, Private clinic, Drug store 30 Mararia 9,715 Dysentery 3,931 Trade Ato Alemayehu H/Water supply Service Abandon By Generator Unter operating BH completed (Not yet use) Total= 3,365m
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: Ot-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 Well No.3; Estbsh on 1999 GL-158m / Casing dia.8" / SWL GL-??m / 8.0L/sec. 05-06 Conveyance Type (Water source ~ Reservoir) Well No.1; GIP / ND-2" / L=1,350m Well No.3; nil. (not installed pump) 05-15 Distribution Type ND-4"=200m ND-2"=2,660m ND-1"=197m	Kestane Gurage Health Center, Private clinic, Drug store 30 Mararia 9,715 Dysentery 3,931 Trade Ato Alemayehu H/Water supply Service Abandon By Generator Unter operating BH completed (Not yet use)

ND-2*1/2=1,740m ND-1*1/4"=102m 06-08 Water tariff rate (Buisiness Connection)

0~5 m3 =3.25birr/m3

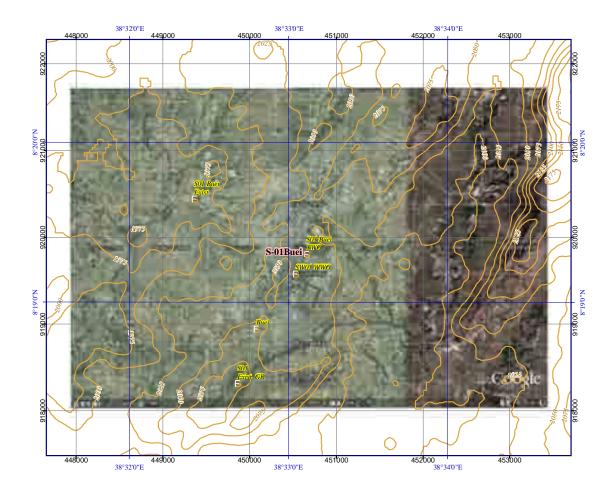
31~ m3 =4.00birr/m3

Water Meter Lease

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

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

S-01 Buei



S-02 Kela

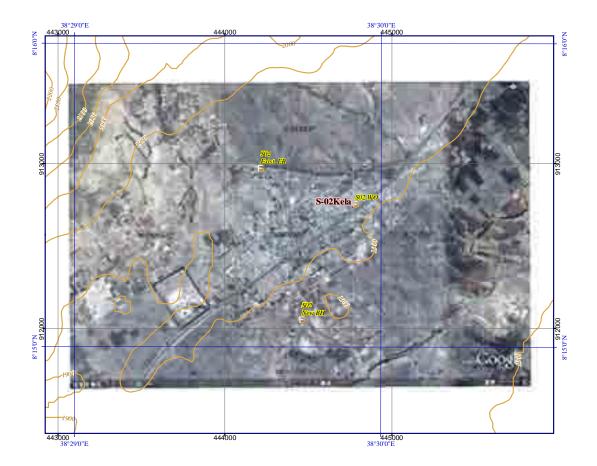
	SNNPR				2 / 52	
	Name of small town :		Kela		S- 02	
	Name of Woreda :		Sodo	S	SW- 01	1
	Name of Zone :		Gurage		SZ- 01	1
		e items	Gurage	Profi		,
Ω1	Population	e items		Pron	ne	
01	-	emale / total	by SNNPR	1,644 1	,875 3,519	
		male / total	by Census 2007	, , , , , , , , , , , , , , , , , , ,	,524 134,634	
	percentage of Town in Woreda		·	,	2.6%	
	Town Coordination UTM (A	dindan)	Easting / Northig / Alt.		2633 1,927	
_	Town Status			Town Administration	1	
04	Water Source			G : 41 / N	NIT)	
	04-01 Water source 04-02 Well spec.	Don	Type, No. th., Casing Dia., S.W.L, Yield	Spring*1no. (+New I	BH)	
	04-02 Well spec. 04-03 Method of water draw	Дер	Pump, Gravity	Pump	ii, o , dL-::iii, ::L/sec./	
	04-04 Pump Spec.		Type, Yield	Gravity		
	04-05 Power source for motorized pump		Type, Kva	nil.		†
	04-06 Durartion of water draw (Operation he	ours)	daily hours, time	24hrs.		
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen					
0.7	Biri Wi G I B W					1
05	Existing Water Supply Facilities		(Canagarian agll)	2007		ļ
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar) Donor's name	Ethiopian Orthodox (Chroh (EOCA)	
	05-03 Name of implementation (Project nam	ne)	Dollor 8 Harrie	Kela town water sup		I
	05-04 Intake Type			Spring	ory co sumunon pr	
	05-05 Intake No.			lno.		***********
	05-06 Conveyance Type (Water source ~ Re	servoir)	Pipe material, length	GIP, 5", 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.		
	05-10 Water reserver type 05-11 Water reserver No.		Туре	GR, ER GR*1no., ER *2nos.		
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	GR 10m3 * 1no., ER	4m3*2	
	05-13 Transmission Type (Booster pump Str	ı. ~ Reservoir)	Pipe material, length	nil.	HII 2	
	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 (Public		RC, Masonry, Pipeetc.			
	05-18 Number of water point (Public Faucet		no.	13 (8 fonction)	7	
	05-19 Number of faucet at a water point (Pu 05-20 Average of daily water consumption a		no.	6FC*2PF, 4FC*11PF 2.23m3/day	-	ļ
	05-20 Average of daily water consumption a 05-21 Number of House Connection (HC)	ii a water point (FF)	m3/day	2.23113/day 290		
	05-22 Average of daily water consumption of He	ouse Connection(HC)	m3/day	0.1m3/day		
	05-23 Number of Business Conection (BC)		mo, day	15		
	05-24 Type of Business Connection (BC)	Factory, School	ol, Gov. office, Hospitaletc.	Hotel, School, Factor	y, Farm	
	05-25 Average of daily water consumption of Bus	iness Connection (BC)	m3/day	0.7m3/day		
	05-26 Other technical specimen					
06	- I			Town wat		-
	06-01 Organization's name 06-02 Type of organization	D.	gional, Zone, Enterpriceetc.	Town water supply so Town administration		ļ
	06-02 Type of organization 06-03 Number of thechnical staff	Ke	gional, Zone, Emerpriceetc	4		
	06-04 Principal works of technical staff			Plumbing, Water me	ter read	
	06-05 Number of the financial staff			2		
	06-06 Principal works of financial staff			Water meter read, Bi	ll	
l	06-07 Categories of water tariff	W.F	Point, House Connectionetc.			
	06-08 Water tariff rate					
	Water point (Public faucet)		Birr/L, 20L	0.1birr/20L		ļ
	House connection		Birr/m3	3.5birr/m3		ļ
	Business connection	:ee	Birr/m3	ditto		
	06-09 Average monthly income by water tar		Birr/month	4,000birr/month		
	06-10 Procurement of spare parts 06-11 Principal spare parts		, Zonal Cap. Reg. Capetc. l filter, Fuel filter, Pipesetc			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 year		onice, in rate companyetc	Not grasped		
	06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.			
	06-15 Other technical specimen					
i						1

S-02 Kela

07	Problem of actual town water supply	1		Т
υı	07-01 Technical	 		-
	Water source Quantity, Qualityetc.	New BH wa	s drved.	+
	Water supply facility Decrepit, leakage, design failureet			V
	07-02 Finalcial			1
	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	140t grasped		+
	Increase in population to consume water coming from other towns, villageset	Not graspad		-
	Change in industry increase factory, Tradinget	Inorpose for	tom. (Line feetom.)	
	Human conflict Ethnic, Administrativeet		tory (Line factory)	
		C.1111.		
	07-04 Other specimen		***************************************	
No.	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc	\		+-
00	Town is on foot of mountain	.)		
	Town is on foot of mountain			
200	Nacassam Institution (Facility Material)			+
09	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"			_
	Refer to Chapter 4 Table 4.7		***************************************	
10	Commont Water Coverage (9/) (byt		010/	+
10	Current Water Coverage (%) (by water consumption at faucets)	2 967	81%	+
	(2.23m3*8PF+0.1m3*290HC+0.7m3*15BC)=57.34m3/day 57.34m3/20Lpcd.= 2,867persons	4,00/persons عرب	**************************************	-
	Current Water Coverage (%) (by data of water source product))	200/	?? %	4
	((??L+??L+??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/3519population=	:??%		+
11	Water Potential (A / B / C / D / E)		В	4
	WWW CONTROL OF THE CO		T	4
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	t Approached	A/A	<u> </u>
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			-
	* Refer to Chapter 5 "Table 5-7: Categories of accessibility"			
13	Manpower Capability of Water Supply Management by Water Office point)		12	
				7
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
15		1 1 71		
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced te	chnology. The	e small town is on the gent	le
15		chnology. The	e small town is on the gent	ile
	The facility can be designed in an Ethiopian standard, whichis not required more advanced to slope, construction work is quite required ingenuities.	chnology. The	e small town is on the gent	:le
	The facility can be designed in an Ethiopian standard, whichis not required more advanced to slope, construction work is quite required ingenuities. Other Donors, NGO's	chnology. The	e small town is on the gent	·le
	The facility can be designed in an Ethiopian standard, whichis not required more advanced to slope, construction work is quite required ingenuities.	chnology. The	e small town is on the gent	tle
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced te slope, construction work is quite required ingenuities. Other Donors, NGO's World vision		e small town is on the gent	tle
16	The facility can be designed in an Ethiopian standard, whichis not required more advanced to slope, construction work is quite required ingenuities. Other Donors, NGO's	chnology. The	e small town is on the gent	tle
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced to slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group		e small town is on the gent	tle
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced to slope, construction work is quite required ingenuities. Other Donors, NGO's World vision Main Ethnic Group Health conditions	Gurage		
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 Center	er, Private clinic, Drug sto	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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	Gurage Health Cent	er, Private clinic, Drug sto	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 Centre 21 Mararia	er, Private clinic, Drug sto	
16 17	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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	Gurage Health Cent 21 Mararia Typhoid	er, Private clinic, Drug stor 4,974 918	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 -3 Main patients of water born diseases persons / year	Gurage Health Cent 21 Mararia Typhoid Dysentery	er, Private clinic, Drug stor 4,974 918 888	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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	Gurage Health Cent 21 Mararia Typhoid Dysentery	er, Private clinic, Drug stor 4,974 918	
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117 118 119 220	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 persons / year Main economic activities Particular comments: New completed well to be additional water source in addition to the existing spring.	Gurage Health Cent 21 Mararia Typhoid Dysentery	er, Private clinic, Drug stor 4,974 918 888	
117 118 119 220	The facility can be designed in an Ethiopian standard, whichis not required more advanced te 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Gurage Health Cent 21 Mararia Typhoid Dysentery	er, Private clinic, Drug stor 4,974 918 888	
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 -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 spring. Remarks: Mr. Abebe Dese Head WS	Gurage Health Cent 21 Mararia Typhoid Dysentery Waving, Fau	er, Private clinic, Drug stor 4,974 918 888	
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117 118 119 120	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 -3 Main patients of water born diseases persons / year Main economic activities Main economic activities Particular comments: New completed well to be additional water source in addition to the existing spring. Remarks: Mr. Abebe Dese Head WS Mr. abayeneh Ferew Opera	Gurage Health Cent 21 Mararia Typhoid Dysentery Waving, Fau	er, Private clinic, Drug stor 4,974 918 888 ming, Trade	
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116 117 118 119 220	The facility can be designed in an Ethiopian standard, whichis not required more advanced to 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 -3 Main patients of water born diseases persons / year Main economic activities Main economic activities Particular comments: New completed well to be additional water source in addition to the existing spring. Remarks: Mr. Abebe Dese Head WS Mr. abayeneh Ferew Opera	Gurage Health Cent 21 Mararia Typhoid Dysentery Waving, Fau	er, Private clinic, Drug stor 4,974 918 888 ming, Trade	ore
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Data 7.3 Small Town Profile of SNNPRS

S-02 Kela



S-03 Tiya

	SNNPR		(3 / 52	
	Name of small town :	Tiya	S	- 03	
	Name of Woreda :	Sodo	SW	'- 01	
	Name of Zone :	Gurage	SZ	- 01	
	Profile items		Profile		!
01	Population				
	Town male / female / total by SNNPI		906 1,03		
	Woreda male / female / total by Census	2007	67,110 67,52		
02	percentage of Town in Woreda	T .1. / A.1.	45.67.60 02210	1.4%	
	Town Coordination UTM (Adindan) Easting / N	Northig / Alt.	456768 93219 Municipality	6 2,320	
	Water Source		wumerpanty		
	04-01 Water source Type, No.		Well * 2nos.		
			GL-185m, ??", GL-85m	, 1.5L/sec.	
	04-03 Method of water draw Pump, Gra		Pump		
	04-04 Pump Spec. Type, Yie		Motorized pump		
	04-05 Power source for motorized pump Type, Kva 04-06 Durartion of water draw (Operation hours) daily hour		Commercial Elec. Line (Ger 06:00-13:30 (6.5hrs/day		
	04-07 Water quality Iron, Fluor		Good	()	
	04-08 Other technical specimen	iuccic.	Good		
05	Existing Water Supply Facilities				
	05-01 Established year (Gregorian		2007		
	05-02 Financial of implementation Donor's na	ime	World vision		
	05-03 Name of implementation (Project name)		Tiya water project		
	05-04 Intake Type		Well		
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe mate:	rial, length	2nos. GIP, ??", 600m		
	05-07 Power to convey Pressure, 6		Pressure		
		on, 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		
		ial, length	nil.		
	05-14 Power to transmit Pressure, 0 05-15 Distribution Type Pipe mate:	ial, length	nil. GIP, ??", 400m		
	05-16 Power to distribute Pressure, 0		Gravity		
		sonry, Pipeetc.			
	05-18 Number of water point (Public Faucet, PF)	no.	5 (3function)	***************************************	
	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)	m3/day	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) 05-24 Type of Business Connection (BC) Factory, School, Gov. offi	as Hospital ata	nil.		
	05-25 Average of daily water consumption of Business Connection (BC)	m3/day	nil.		
	05-26 Other technical specimen	iii/ uuy			
06	Operation and Maintenace				
	06-01 Organization's name		Water committee		
		e, Enterpriceetc	Town administration		
	06-03 Number of thechnical staff		D		
	06-04 Principal works of technical staff 06-05 Number of the financial staff		Pump operation		
	06-06 Principal works of financial staff		Water sale at W. Point		
		Connectionetc.	W. Point		
	06-08 Water tariff rate				
	Water point (Public faucet) Birr/L, 20	L	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 at Town, Zonal Car				
	06-11 Principal spare parts Oil filter, Fuel 06-12 Method in case of serious repair by Regional office, Priv	filter, Pipesetc			
	06-12 Method in case of serious repair by Regional office, Priv	ac companyetc	Generator broken		
	06-14 Fund for above 6-09, 6-10 by Organization, G	ov., Donorsetc	SNNPR		
	06-15 Other technical specimen				
	<u> </u>				

S-03 Tiya

07	Ducklam of actual torus victor comply			
07	Problem of actual town water supply 07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wa	tor	
	Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial	Design fanu	ic of pipe files	
	Management	Not grasped		
	Rate of water tarrif collection	Shall consid		
	Personnel expenses	low	CI	
	Shortage of budget to execute operation & maintenace		dget for O&M	
	07-03 Other incidential, Special specimen	Shortage but	uget for Oxivi	
		Not around		
	Change in industry increase factory, Tradingetc. Human conflict Ethnic, Administrativeetc		ııng	
		1111.		
	07-04 Other specimen	***************************************	***************************************	
00	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
08	Town is on flat area	<u>'</u>		
	Town is on that area			
00	Necessary Institution (Facility, Material)			
09	Refer to Chapter 4 "Table 4.7"			
	Refer to Chapter 4 Table 4.7			
10	Current Water Coverage (%) (by water consumption at faucets)		??	-
10	(??m3*??PF+0m3*0HC+0m3*0BC)=??m3/day ??m3/20Lpcd.=??persons ??persons/1,937	nonulation 0		
	((?/m3*/?PF+0m3*0HC+0m3*0HC)=?/m3/day ?/m3/20Lpcd.=??persons ??persons/1,93/ Current Water Coverage (%) (by data of water source product))	рориганоп=?	?? %	
	Current Water Coverage (%) (by data of water source product)) ((1.5L+??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/1937population=??%		!! %	
11	((1.5L+?/L)*3500sec.*8nrs)=?/L/day ??/20Lcd=?/persos ?/persons/193/population=??%			_
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	Ammooohod	A / 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= >3~6m / C= 1~3m / D= <1m	Approached	A/B	
12	* Refer to Chapter 5 "Table 5-7: Categories of accessibility"			
13	Manpower Capability of Water Supply Management by Water Office point)		6	
			T	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
1.5	N. W. G. J. Di			
15	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	
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
10	World vision			
	WORL VISION			
17	Main Ethnic Group	Gurage		
1 /	Main Ethic Group	Gurage		
18	Health conditions			
10	-1 Medical facilities in Town	Health Cente	er, Private clinic, Drug	etora
	-2 Nearest other facilities from Town km	50		, 51010
	-3 Main patients of water born diseases persons / year	Dysentery	165	
	5 Fram patents of water corn diseases persons / year	Mararia	76	
		Typhoid	41	
		others	182	
19	Main economic activities		ing, Farming	_
/		, 11 41	۵,	
20	Particular comments :			- -
	Town population is less than 2,000 persons in accordance with list of the candidate small town	ıs.		
	1, and the condition of			

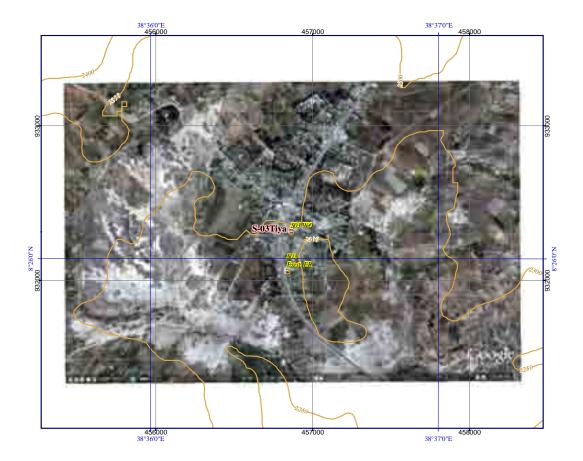
21	Remarks:			

Men	no (Town sketchetc.):			
		I	1	***************************************

	•			

Data 7.3 Small Town Profile of SNNPRS

S-03 Tiya



S-04 Suten

	SNNPR		4 / 52	
	Name of small town :	Suten	S- 04	
	Name of Woreda :	Sodo	SW- 01	
	Name of Zone :	Gurage	SZ- 01	
	Profile items		Profile	!
01	Population	1 CARAMA	coo cas 1,000	
	Town male / female / total Woreda male / female / total	by SNNPR by Census 2007	623 675 1,298 67,110 67,524 134,634	
	percentage of Town in Woreda	by Celisus 2007	1.0%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	457353 928959 2,289	
	Town Status		Town Administration	
04	Water Source	T N.	Well * 1no.	
	04-01 Water source 04-02 Well spec. Dep	Type, No.	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	07:00-12:00, 15:00-18:00 (8hrs./day) Good	
	04-07 Water quality 04-08 Other technical specimen	Iron, Fluorideetc.	Good	
1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			ļ
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1992	
1	05-02 Financial of implementation	Donor's name	SNNPR, Unicef Suten water project, Irish Embassy	
	05-03 Name of implementation (Project name) 05-04 Intake Type		Well	
	05-05 Intake No.		lno.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2*1/2", 5,000m	
	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	GR	
	05-10 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. GIP, 2*1/2"=150m, 2"=3,436m (Total=3,586m)	
	05-15 Distribution Type 05-16 Power to distribute	Pipe material, length Pressure, Gravity	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.	5	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6FC*4PF, 3FC*1PF (Function*3PF)	
	05-20 Average of daily water consumption at a water point (PF) m3/day	5.0m3/day	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC)	m3/day	50 (Not function) Not grasped	!
	05-23 Number of Business Conection (BC)	ins/day	Not grasped	:
		ol, Gov. office, Hospitaletc.	C 1	
	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		Water committee	
I		egional, Zone, Enterpriceetc		
I	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff		Pump operation	
	06-05 Number of the financial staff		Not grasped Water maeter read, Bill, Water sale	!
	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	i om, mouse connectionetc.	Sinc, Froude connection	
	Water point (Public faucet)	Birr/L, 20L	0.5birr/20L	
	House connection	Birr/m3	1.6birr/m3	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff 06-10 Procurement of spare parts at Tow	Birr/month n, Zonal Cap. Reg. Capetc.	2,500birr/month	
		il filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair by Regional	office, Private companyetc	Woreda, NGO	
1	06-13 Principal serious repair with 5-10 years		nil.	
		ganization, Gov., Donorsetc.	nil.	
	06-15 Other technical specimen			
1				

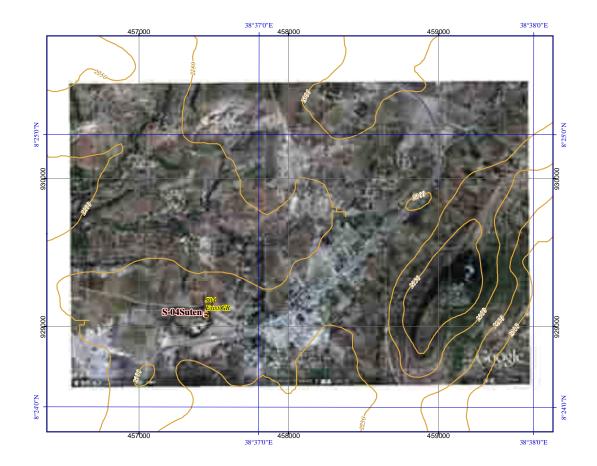
S-04 Suten

07		I		
07	Problem of actual town water supply			
	07-01 Technical Water source Ouantity, Oualityetc.	Shortage wat	08	
	7, 2		er	
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		!
	07-02 Finalcial	N.T		
	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	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.))		
	Towns is on the flat area.			
09	Necessary Institution (Facility, Material)			
0)	Refer to Chapter 4 "Table 4.7"			
	Refer to Chapter 4 Table 4.7			
10	Current Water Coverage (9/) (by water consumption of formation	Г	FOO/	
10	Current Water Coverage (%) (by water consumption at faucets)	208 1 ::	58%	
	(5.0m3*3PF+0m3*50HC+0m3*3BC)=15m3/day 15m3/20Lpcd.=750persons 750persons/1	,298populatio		
	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*8hrs)=??L/day ??/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 > $6m /B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	* Refer to Chapter 5 "Table 5-7: Categories of 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			
	in the state of th			
15	New Water Supply Plan			_
13	10w Water Suppry Fian			
	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	Other Dollors, NGO'S			
1.7	M. Fl. G			
17	Main Ethnic Group	Gurage		
18	Health conditions			
	-1 Medical facilities in Town	Private clinic	, Drug store	
	-2 Nearest other facilities from Town km	45		
	-3 Main patients of water born diseases persons / year	Mararia	1,000	
		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 town	ıs.		
	A			
21	Remarks:			
	Mr. shiferaw Arsi committee member mob. 0916248695			
	Mr. Mulatu Fekadu watr committee member			
Mar	to (Town sketchetc.):		1	_
vien	io (Town Sketchetc.)			L

************				***************************************

Data 7.3 Small Town Profile of SNNPRS

S-04 Suten



S-06 Koshe

Name of small town		Koshe	5 / 52 S- 06
Name of Woreda	:	Marego	SW- 02
Name of Zone	:	Gurage	SZ- 01
B 16	Profile items		Profile
Population Town		has HCA Starder Summer	4 102 2 610 7 902
Woreda	male / female / total male / female / total	by JICA Study Survey by Census 2007	4,192 3,610 7,802 32,195 31,241 63,436
percentage of Town in Word		by Celisus 2007	12.3%
Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	448175 885173 1,891
Town Status	C TW (Fidindan)	Easting / Horang / Hit.	Woreda Capital
Water Source			
04-01 Water source		Type, No.	BH Well * 2nos.
04-02 Well spec.		Denth., Casing Dia., S.W.L	see below memo
04-03 Methor of water draw		Pump, Gravity	Pump
04-04 Pump Spec.		Type, Yield	Motorized pump
04-05 Power source		Type, Kva	Commercial Elec.
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.
Existing Water Supply Facilities			10.00 (2010
05-01 Established year	_	(Gregorian calendar)	1969 / 2010
05-02 Financial of implementation	1	Donor's name	US Aid & Resque Committee on 2010
05-03 Name of implementation 05-04 Intake Type			Koshe water supply project Well
05-05 Intake No.			2
05-06 Conveyance Type (Water so	ource ~ Reservoir)	Pipe material, length	GIP, 2"&4", 6m+3,000m see below memo
05-07 Power to convey	Juice ~ 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	GR, ER Steel Tank (On-spot) see below memo
05-11 Water reserver No.	***************************************	no.	GR*1no., ER*1no.
05-12 Water reserver Capacity		m3	GR*100m3, ER*4m3
05-13 Transmission Type (Booster	r pump Stn. ~ Reservoir)	Pipe material, length	-
05-14 Power to transmit		Pressure, Gravity	_
05-15 Distribution Type		Pipe material, length	GIP&PVC/ 4"~1*1/2"/ 2,850m See below memo
05-16 Power to distribute		Pressure, Gravity	Gravity
05-17 Structure Type of water point		RC, Masonry, Pipeetc.	
05-18 Number of water point (Pub		no.	11
05-19 Number of faucet at a water		no.	6
05-20 Average of daily water cons		PF) m3/day	6m3/day
05-21 Number of House Connection			151
05-22 Average of daily water consum		IC) m3/day	0.53m3/day
05-23 Number of Business Conect			11
05-24 Type of Business Connection		chool, Gov. office, Hospitaletc	School*2, Gov.*9
05-25 Average of daily water consump	otion of Business Connection (1	BC) m3/day	2.2m3/day
05-26 Other technical specimen			
Operation and Maintenace			
06-01 Organization's name			Koshe water supply center
06-02 Type of organization		Regional, Zone, Enterpriceetc	1.5.5
06-03 Number of thechnical staff		, , , , , , , , , , , , , , , , , , ,	2
06-04 Principal works of technical	staff		plumbing, operator
06-05 Number of the financial stat			13
06-06 Principal works of financial			Water meter count., Billing
		W.Point, House Connectionetc	
06-07 Categories of water tariff			
06-07 Categories of water tariff 06-08 Water tariff rate		Birr/L, 20L	0.15birr/25L
			5.0birr/m3, 2.0birr/water meter monthly ease
06-08 Water tariff rate		Birr/m3	
06-08 Water tariff rate Water point (Public faucet)		Birr/m3 Birr/m3	ditto
06-08 Water tariff rate Water point (Public faucet) House connection Business connection 06-09 Average monthly income by	y water tariff	Birr/m3 Birr/month	14,000birr/month
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	y water tariff	Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc.	14,000birr/month Addis Ababa
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	y water tariff at To	Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc	14,000birr/month Addis Ababa Water meter, pipe fittings
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	y water tariff at To	Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc.	14,000birr/month Addis Ababa Water meter, pipe fittings Technical advosing by SNNPR
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 06-13 Principal serious repair with	y water tariff at To epair by Region 1 5-10 years	Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc nal office, Private companyetc	14,000birr/month Addis Ababa Water meter, pipe fittings Technical advosing by SNNPR Well pump repair
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	y water tariff at To epair by Region 1 5-10 years	Birr/m3 Birr/month own, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc	14,000birr/month Addis Ababa Water meter, pipe fittings Technical advosing by SNNPR

S-06 Koshe

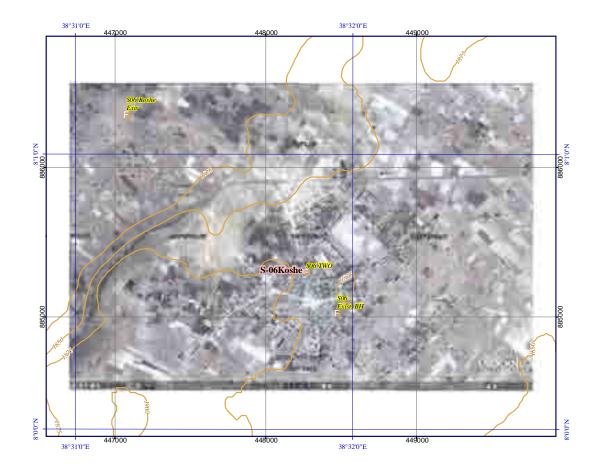
	Problem of actual town water supply 07-01 Technical			
	Water source	Quantity, Qualityetc.	Shortage wat	er quantity
h-	Water supply facility	Decrepit, leakage, design failureetc		
(07-02 Finalcial	Beerepii, realinge, design fanare men	Lice. I ower a	appry (need stand by GD)
12	Management		Delay of pays	ment from Customers
H	Rate of water tarrif collection		No response	The state of the s
-	Personnel expenses		No response	
-	Shortage of budget to execute operation & n	naintenace	No response	
C	97-03 Other incidential, Special specimen	iamenace	140 response	
-	Increase in population to consume water	coming from other towns, villagesetc	Incresing por	ulation
-	Change in industry	increase factory, Tradingetc		ulation
-	Human conflict	Ethnic, Administrativeetc		
-	07-04 Other technical specimen	Etillic, Administrativeetc	nil.	
·	77-04 Other technical specifien		1111.	
-	Geographical condition (Slope on moun	taion, bottom of valley, Top of ridgeetc.)	
	Town : Flat area	taion, bottom of variey, Top of Hugeetc.)	
F	I OWII : Flat alea			
-				
	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
1	Refer to Chapter 4 Table 4.7			
-				
1	Current Water Coverage (%) (by water consumpti	on at faucate)	Г	94%
	6m3*11PF+0.53m3*151HC)=146m3/day 146m3		7 802 populati	7470
	om3*11PF+0.33m3*131HC)=146m3/day 146m3 Current Water Coverage (%) (by data of water sou		r,30∠ populati	2020/
	(3.0+8.0L)*3600sec.*8hrs)=316800L/day 31680		2802population	203%
	Water Potential $(A/B/C/D/E)$	0/20Lcd=13640persons//	802population	B
1	water foreitial (A/B/C/D/E)			D
+	Accessibility (A / B / C / D / E) A=Asphalt/B=Ba:	ca Courca/C-Sub Grada/D-Only Dwy Cassan /C NI-	t Approached	A/A
	Accessibility (A / B / C / D / E) A=Asphalt/B=Ba 700m (Approx.) from Asphalt road A=Road Width		Approactied	A / A
			C '1 '1'	
	Access road from Butajira 22km is asphalt paved.*		of accessibilit	11
Г	Manpower Capability of Water Supply Manageme	nt by water Office point)	L	11
ļ				
1	(1.47.47.47.47.47.47.47.47.47.47.47.47.47.			
	Ogree of urgency (A / B / C / D / E)		L	
1	Refer to Chapter 5 & 7			
_				
	New Water Supply Plan			
F	Refer to the Chapter 6			
F 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa		chnology. The	small town is on the
Ε 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa generally flat terrains, construction work is not diff	ficult.	chnology. The	small town is on the
Ε 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa	ficult.	chnology. The	small town is on the
Ε 7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa generally flat terrains, construction work is not diff	ficult.	chnology. The	small town is on the
F 2 2	Refer to the Chapter 6 The facility can be designed in an Ethiopian standar generally flat terrains, construction work is not different Donors, NGO's US Aid, Rescu	ficult.		
Ε (Refer to the Chapter 6 The facility can be designed in an Ethiopian standa generally flat terrains, construction work is not diff	ficult.	chnology. The	
F T C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa generally flat terrains, construction work is not diff other Donors, NGO's US Aid, Rescu	ficult.		
F T C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa generally flat terrains, construction work is not diff other Donors, NGO's Wain Ethnic Group Health conditions	ficult.	Marego, Gura	age
F T C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not different Donors, NGO's US Aid, Rescursion Ethnic Group Health conditions -1 Medical facilities in Town	ficult. e Committee	Marego, Gura	
F T C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficult of the Donors, NGO's Wain Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ficult. e Committee km	Marego, Gura Health Center	nge r, Private clinic, Drug stor
F T C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not different Donors, NGO's US Aid, Rescursion Ethnic Group Health conditions -1 Medical facilities in Town	ficult. e Committee	Marego, Gura Health Cente: 25 Mararia	nge r, Private clinic, Drug stor 4,000
F G M	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's US Aid, Rescul Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	ficult. e Committee km	Marego, Gura Health Centes 25 Mararia Dysentery	nge r, Private clinic, Drug stor
F G M	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficult of the Donors, NGO's Wain Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	ficult. e Committee km	Marego, Gura Health Cente: 25 Mararia	nge r, Private clinic, Drug stor 4,000
I S	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's Wain 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	ficult. e Committee km	Marego, Gura Health Centes 25 Mararia Dysentery	nge r, Private clinic, Drug stor 4,000
I S	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's US Aid, Rescul 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, Gura Health Center 25 Mararia Dysentery Farming	r, Private clinic, Drug stor 4,000 2,000
I S	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's Wain 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, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F	r, Private clinic, Drug stor 4,000 2,000
I S	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's Wain 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, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F	r, Private clinic, Drug stor 4,000 2,000
E C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's Wain 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, Gura Health Center 25 Mararia Dysentery Farming Fasika Seyfu F Afework Gatis	r, Private clinic, Drug stor 4,000 2,000
I I	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's Wain 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, Gura Health Center 25 Mararia Dysentery Farming Fasika Seyfu F Afework Gatis	r, Private clinic, Drug stor 4,000 2,000 L/Minicipality 0912082868 o Chairman 0916280407
N H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not different Donors, NGO's Wain 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, Gura Health Cente: 25 Mararia Dysentery Farming Fasika Seyfu F Afework Gatis Samuel Kebed	nge r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 o Chairman 0916280407 e Secretary 0916346277
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P P P P P P P P P P P P P P P P P P P	Refer to the Chapter 6 The facility can be designed in an Ethiopian standa generally flat terrains, construction work is not difficient Donors, NGO's Wain 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, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed:	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 o Chairman 0916280407 e Secretary 0916346277 ed. One Committee Member
I I I I I I I I I I I I I I I I I I I	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficient Donors, NGO's Wain 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 writte as in his head all the information about the pipeline (the diame and service).	km persons / year Interviewee	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed:	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 o Chairman 0916280407 e Secretary 0916346277 ed. One Committee Member
M H H H H H H H H H H H H H H H H H H H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difformer Donors, NGO's Wain 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 writte as in his head all the information about the pipeline (the diame onsumption, tariff, income.	km persons / year Interviewee	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed:	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 o Chairman 0916280407 e Secretary 0916346277 ed. One Committee Member
I H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difformer Donors, NGO's Wain 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 writte as in his head all the information about the pipeline (the diame onsumption, tariff, income.	km persons / year Interviewee	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed:	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 o Chairman 0916280407 e Secretary 0916346277 ed. One Committee Member
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H T H H C C C C C C C C C C C C C C C C	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficultier Donors, NGO's Waid, Rescursion of the Chapter of	km persons / year Interviewee Indocuments, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water
H H H H H H H H H H H H H H H H H H H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard generally flat terrains, construction work is not different Donors, NGO's Wain 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 writte as in his head all the information about the pipeline (the diame onsumption, tariff, income. to (Town sketchetc.): Well No.1; Established on 1969 / Depth GL	km persons / year Interviewee Indocuments, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water
I H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard generally flat terrains, construction work is not different Donors, NGO's Wain 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 writte as in his head all the information about the pipeline (the diame onsumption, tariff, income. to (Town sketchetc.): Well No.1; Established on 1969 / Depth GL	km persons / year Interviewee Indocuments, they do not even know when the Commeters seem contradictory). And another Committee Me	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water
H H H H H H H H H H H H H H H H H H H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difform Donors, NGO's Wain 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 writte as in his head all the information about the pipeline (the diame onsumption, tariff, income. To (Town sketchetc.): M4-02 Well spec. Well No.1; Established on 1969 / Depth GL Well No.2; Established on 2010 by USAid&	km persons / year Interviewee Indocuments, they do not even know when the Committers seem contradictory). And another Committee Me 208m / casing dia. 6"/ SWL GL-??m / 3.01 Rescue Committee / Depth GL-84m / casin	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water
H H H H H H H H H H H H H H H H H H H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difform Donors, NGO's Waid, Rescurse of the Chapter of Standard Sta	km persons / year Interviewee In documents, they do not even know when the Committers seem contradictory). And another Committee Meters seem contradictory). And another Committee Meters seem contradictory). Personal Committee Meters seem contradictory.	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water
H H H H H H H H H H H H H H H H H H H	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difficient Donors, NGO's Waid, Rescurse of the Chapter of Standard	km persons / year Interviewee Indocuments, they do not even know when the Commeters seem contradictory). And another Committee Meters seem contradictory). And another Committee Meters seem contradictory. Another Switch seem seem seem contradictory. Another Switch seem seem seem seem seem seem seem see	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standarenerally flat terrains, construction work is not difform Donors, NGO's Waid, Rescurse of the Chapter of Standard Sta	km persons / year Interviewee Indocuments, they do not even know when the Commeters seem contradictory). And another Committee Meters seem contradictory). And another Committee Meters seem contradictory. Another Switch seem seem seem contradictory. Another Switch seem seem seem seem seem seem seem see	Marego, Gura Health Cente: 25 Mararia Dysentery Farming : Fasika Seyfu F Afework Gatis Samuel Kebed ittee was establish mber has in his he	r, Private clinic, Drug stor 4,000 2,000 I/Minicipality 0912082868 to Chairman 0916280407 to Secretary 0916346277 ted. One Committee Member and all the information on water

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

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

Data 7.3 Small Town Profile of SNNPRS

S-06 Koshe



S-07 Lisana

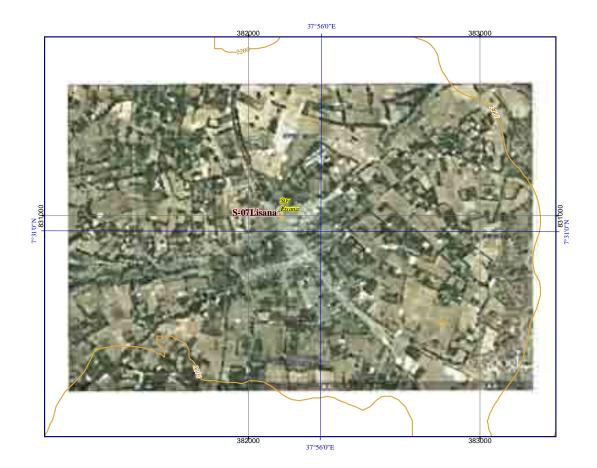
	SNNPR		6 / 52	
	Name of small town :	Lisana	S- 07	
	Name of Woreda :	Lemmo	SW- 04	
	Name of Zone :	Hadiya	SZ- 02	
	Profile items		Profile	!
01	Population Town male / female / total Woreda male / female / total	by SNNPR by Census 2007	890 821 1,7 58,663 59,915 118,5°	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	1.4 382047 830873 2,1:	_
	Town Status	<u> </u>	Town Administration	
04	Water Source		DI W. I	
	04-01 Water source 04-02 Well spec. Der	Type, No.	BH Well * 1no. GL-157m, 6*5/8", GL-89.21m, 6L/s	20
	04-03 Method of water draw	Pump, Gravity	Pump	ec.
	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	07:00-12:00 & 15:00-18:00 (8hrs/da)	y)
	04-07 Water quality 04-08 Other technical specimen	Iron, Fluorideetc.	Good	
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)		Liasa water project, SNNPR	
	05-04 Intake Type		Well	
	05-05 Intake No.	B:	Ino.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length Pressure, Gravity	GIP, 2*1/2", 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	E.R (Roto Tank)	
	05-11 Water reserver No.	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 Pressure, Gravity	See below memo	
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	Gravity	
	05-18 Number of water point (Public Faucet, PF)	no.	6	
	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) 05-21 Number of House Connection (HC)		16m3/day 1	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.3m3/day	
	05-23 Number of Business Conection (BC)	-1 Cff: II	Cohool*1 Hoolth Control*1	
	05-24 Type of Business Connection (BC) Factory, School 05-25 Average of daily water consumption of Business Connection (BC)	ol, Gov. office, Hospitaletc. m3/day	School*1, Health Center*1 0.3m3/day	
	05-26 Other technical specimen	ms/uay	O.SIIIS/Uay	
	55 25 Suici tecimient specimen			
06	Operation and Maintenace			
	06-01 Organization's name		Lisana area water suply system	
		gional, Zone, Enterpriceetc	Community based organization	
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff 06-05 Number of the financial staff		Pump operation 5	
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.1	Point House Connection	Water sale, Bill W. Point, House connection	
	06-08 Water tariff rate	Point, House Connectionetc.	w. rollit, flouse connection	
	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 tariff	Birr/month	6,500birr/month	
		ı, Zonal Cap. Reg. Capetc.		
		l filter, Fuel filter, Pipesetc		
		office, Private companyetc		
	06-13 Principal serious repair with 5-10 years	onization Cov. D	Pipefittings line broken	
	06-14 Fund for above 6-09, 6-10 by Org 06-15 Other technical specimen	anization, Gov., Donorsetc.	Community	
	55 15 Galet technical speciment			
	<u> </u>		L	

S-07 Lisana

0,	Problem of actual town water supply				
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorts	ge, Elec. Blackout	
	Water source Water supply facility	Decrepit, leakage, design failure			
		Decrepit, leakage, design failure	etc.Design ranui	e (water leakage)	
	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	lget for O&M	
	07-03 Other incidential, Special specimen			· 	
	Increase in population to consume water	coming from other towns, villages	etc Coming fron	n villagers	_
	Change in industry	increase factory, Trading	to Increase grai	n production	
				ii production	
	Human conflict	Ethnic, Administrative	etc nil.		
	07-04 Other specimen				
8	Geographical condition (Slope on mou	ntaion, bottom of valley, Top of ridgee	tc.)		
	Town is on flat area				
Ω	Nanagany Institution (Facility Material)				
9	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
0	Current Water Coverage (%) (by water consump	tion at faucets)		283%	Ţ
	(16m3*6PF+0.3m3*1HC+0.3m3*2BC)=96.9m3/		845persons / 1 7	11 population = 283%	
	Current Water Coverage (%) (by data of water so			505%	-
			1 5050/	30370	_
_	((6.0L)*3600sec.*8hrs)=172800L/day 172800/2	tolicu=8040persos 8040persons/1/11pop	outation=505%		4
1	Water Potential (A / B / C / D / E)			В	
_					
2	Accessibility (A / B / C / D / E) A=Asphalt/B=B	ase Course/C=Sub Grade/D=Only Dry Season/E=	Not Approached	B / A	Т
		$th > 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	Sub grade road at 7km approx from Hosaina * Re				
2	Manpower Capability of Water Supply Managem		uccessionity	12	
3	Manpower Capability of Water Supply Managem	ient by water Office point)		13	—
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
-	N W-4 Cl Dl				
13	New Water Supply Plan				
	Refer to the Chapter 6				
	The facility can be designed in an Ethiopian stand		technology. The	small town is on the	
			technology. The	small town is on the	
16	The facility can be designed in an Ethiopian stand		technology. The	small town is on the	-
16	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di		technology. The	small town is on the	
6	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di		technology. The	small town is on the	
	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's				
	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di		technology. The		
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group				
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions	fficult.	Hadiya, Aml	nara	
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group	fficult.	Hadiya, Aml		OST
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions	fficult.	Hadiya, Aml	nara nic, Drug store, Health p	OSE
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	fficult. Health Co	Hadiya, Aml	nara nic, Drug store, Health p	OS
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	fficult. Health Co	Hadiya, Aml enter, Private clir 15 Mararia	nara nic, Drug store, Health p	OS
.7	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	fficult. Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery	nara nic, Drug store, Health p 1,000 1,000	os
.7	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	fficult. Health Co	Hadiya, Aml enter, Private clii 15 Mararia Dysentery Typhoid	nara nic, Drug store, Health p 1,000 1,000 1,000	oost
7 8	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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	fficult. Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea	nara 1,000 1,000 1,000 50	OS
18	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town	fficult. Health Co	Hadiya, Aml enter, Private clii 15 Mararia Dysentery Typhoid	nara 1,000 1,000 1,000 50	oost
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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	fficult. Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea	nara 1,000 1,000 1,000 50	os
17	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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	fficult. Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea	nara 1,000 1,000 1,000 50	oos
.7	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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:	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS
7 8	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OOS
8	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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:	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OOST
7 8 0	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in acc	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS
7 8 9 0 0	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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:	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS:
7 8 9 0 0	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in acc	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oos
7 8 9 0 0	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in acc	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oos
9 20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in acc	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oos
.7 .8 .9 .20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in access than 2,000 persons	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS
9 20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in acc	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS:
.7 .8 .9 .20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accidence of the properties of the prope	Health Co	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oost
9 20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OST
.7 .8 .9 .20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accidence of the properties of the prope	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	os
7 8 9 0 1	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	ost
.7 .8 .9 .20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS
.7 .8 .9 .20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS
.7 .8 .9 .20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oos
7 8 9 0 1	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	OS
7 8 0	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oos
9 20	The facility can be designed in an Ethiopian stand generally flat terrains, construction work is not di 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: Town population is less than 2,000 persons in accomments: Town sketchetc.):	Health Ce km persons / year	Hadiya, Aml enter, Private clir 15 Mararia Dysentery Typhoid Diarrhea Trade, Farmi	nara 1,000 1,000 1,000 50	oos

Data 7.3 Small Town Profile of SNNPRS

S-07 Lisana



S-09 Dosha

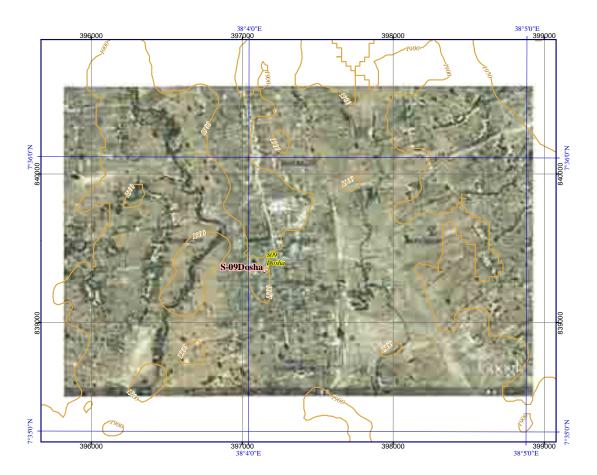
	SNNPR			7 / 52	<u>-</u>
	Name of small town :	Dosha		S- 09	
	Name of Woreda :	Shashago		SW- 05	
	Name of Zone :	Hadiya		SZ- 02	
	Profile items		Pı	rofile	!
01	Population Town male / female / total	L., CNNDD	920	0.61	1 001
	Town male / female / total Woreda male / female / total	by SNNPR by Census 2007	51,777	961 50,687	1,881 102,464
	percentage of Town in Woreda	by Census 2007	31,777	30,007	1.8%
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	397071	839228	1,930
03	Town Status		Municipality		
04	Water Source				
	04-01 Water source	Type, No.	BH Well * 3nos.		
	04-02 Well spec. Dept 04-03 Method of water draw	h., Casing Dia., S.W.L, Yield 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)		Not grasped		
	04-07 Water quality	Iron, Fluorideetc.	Not grasped		
	04-08 Other technical specimen				
0	District Williams I. B. Will				
05	Existing Water Supply Facilities	(Canagarian11	1987 / 2007		
	05-01 Established year 05-02 Financial of implementation	(Gregorian calendar) Donor's name	Kakehiwot / Unio	of & NC A	
	05-03 Name of implementation (Project name)	DOIOL S HAIRC	Dosha water proje		
	05-04 Intake Type		Well (Shallow we		
	05-05 Intake No.		3nos.		
	05-06 Conveyance Type (Water source ~ Reservoir)	- ·r - · · · · · · · · · · · · · · · · ·	nil.		
	05-07 Power to convey		nil.		
	05-08 Water treatment		nil.		
	05-09 Water treatment capacity 05-10 Water reserver type	m3/day	nil. nil.		
	05-10 Water reserver type 05-11 Water reserver No.		nil.		
	05-12 Water reserver Capacity		nil.		
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)		nil.		
	05-14 Power to transmit	Pressure, Gravity	nil.		
	05-15 Distribution Type		nil.		
	05-16 Power to distribute		nil.		
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	nıl.		
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Faucet, PF)		nil.		
	05-20 Average of daily water consumption at a water point (PF)	m3/day	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.		
		, 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		Water committee		
	<u> </u>	ional, Zone, Enterpriceetc.	Community based	l organization	1
	06-03 Number of thechnical staff		nil.		
	06-04 Principal works of technical staff		nil.		
	06-05 Number of the financial staff		3		
	06-06 Principal works of financial staff	sint House Connection ato	Water sale	(mn)	
	06-07 Categories of water tariff W.Po 06-08 Water tariff rate	oint, House Connectionetc.	W. point (Handpu	p <i>)</i>	
	Water point (Public faucet)	Birr/L, 20L	0.05birr/20L		
	House connection		nil.		
	Business connection		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. Capetc.	Bonosya		
		filter, Fuel filter, Pipesetc		p	
		office, Private companyetc	Woreda nil.		
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by Orga	nization, Gov., Donorsetc.	Water committee,	SNNPR	
	06-15 Other technical specimen	inzaron, Gov., Donoisetc.	,, ater committee,	D111111X	

S-09 Dosha

		T	
07	Problem of actual town water supply		
	07-01 Technical		
	Water source Quantity, Qualityetc.	Water shortage	
	Water supply facility Decrepit, leakage, design failureetc	Design failure (suction valve level)	
	07-02 Finalcial		
	Management	Not grasped	
	Rate of water tarrif collection	Not grasped	
	Personnel expenses	Not grasped	
	<u> </u>		
	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		
	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.)		
00	Town is on flat area.	,	
	Town is on that area.		
00	NY Y STATE OF THE RESERVE		
09	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
			ļ
10	Current Water Coverage (%) (by water consumption at faucets)	10%	LĪ
	(??m3*??PF+0m3*0HC+0m3*0BC)=??m3/day 3.6m3/20Lpcd.=180persons 180persons/1,	881population=10%	
	Current Water Coverage (%) (by data of water source product))	?? %	
	((??L+??L+??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/1881population=		
11	Water Potential $(A/B/C/D/E)$	В	
11	Water folential (A/D/C/D/E)	D	
10	A TITLE (A/D/C/D/E) A ALLIANDE CE (COLO LECELE COLO COLO COLO COLO COLO COL	Assessment B / B	
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 > $6m /B$ = >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	
13	Manpower Capability of Water Supply Management by Water Office (point)	6	
14	Dgree of urgency (A / B / C / D / E)		
14	Refer to Chapter 5 & 7		
	Refer to Chapter 3 & 7		
1.5	N. W. G. J. D.		
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	
18	Health conditions		
10	<u> </u>	er, Private clinic, Drug store, Health pos	
	-2 Nearest other facilities from Town km	39	
	-3 Main patients of water born diseases persons / year	Mararia 6,131	
		Typhoid 2,800	ļ
		Dysentery 251	
		others 532	
19	Main economic activities	Trade, Farming	L
_			L
20	Particular comments :		
	Town population is less than 2,000 persons in accordance with list of the candidate small town	ns.	
			İ
21	Pamarka :		
41	Remarks:		
	Mr. Ahemed Hamza Human resources adm. 0912243561		ļ
	Mr. Mulushewa Haile, Minicipality recording & documen		
	Mr. Lemilo Wo ndu Manager of minicipality 0910455888		
Men	no (Town sketchetc.):		
	<u> </u>	<u> </u>	
	04-02 Well spec.		·
	Well No.1; Established on 1987 / Depth GL-37m / casing dia. ??"/ SWL GL-??m / ??L/	sec.	
	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/		l
	won 140.2, Established on 2007 / Depth GL-32III / Cashig that !! / SWE GE-!!M / !!E/	suc.	l
	•		
	-		
L	•		
		•	

Data 7.3 Small Town Profile of SNNPRS

S-09 Dosha



S-11 Fonko

_	SNNPR			_		52	
	Name of small town		Fonk	-	S- 1		
	Name of Woreda	•	Analem		SW- ()7	
	Name of Zone	:	Hadiy	ya	SZ- ()2	
		Profile items			Profile		!
01	Population						
	Town	male / female / total	by SNNPR	1,18	5 1,195	2,380	
	Woreda	male / female / total	by Census 2007	35,95	9 37,249	73,208	
	percentage of Town in Wo			20550		3.3%	
	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	38558 Town Adm		2,284	
	Town Status Water Source			Town Adm	imistration		
	04-01 Water source		Type, No.	Well*2nos	. (2/2byHP aband	doned)	
	04-02 Well spec.		Depth., Casing Dia., S.W.L,				
	04-03 Method of water draw		Pump, Gravity	Pump			
	04-04 Pump Spec.		Type, Yield		oump / Hand pum		
	04-05 Power source for motorize		Type, Kva		ıl Elec. / Manual		
	04-06 Durartion of water draw (0	Operation hours)	daily hours, time		00 + 1hr. $(4$ hrs./ 0	day)	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Good			
	04-00 Onici teciniicai specimen						
05	Existing Water Supply Facilities						
	05-01 Established year		(Gregorian calendar)	1999			
	05-02 Financial of implementation	on	Donor's name	SNNPR			
	05-03 Name of implementation (Project name)			er supply project		
	05-04 Intake Type			Well			
	05-05 Intake No.			2nos.	-00		
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 2", 1,: Pressure / N			
	05-07 Power to convey 05-08 Water treatment		Pressure, Gravity Disinfection, Ironetc		viaiiuai		
	05-08 Water treatment capacity		m3/day	nil.			
	05-10 Water reserver type		Туре	GR			
	05-11 Water reserver No.		no.	1no.			
	05-12 Water reserver Capacity		m3	50m3			
	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	See below:	memo		
	05-16 Power to distribute 05-17 Structure Type of water po	oint (Dublic Foucat DE)	Pressure, Gravity RC, Masonry, Pipe .	Gravity oto Monsonry			
	05-17 Structure Type of water point (Pu		no.	5 (2 foncti	on)		
	05-19 Number of faucet at a water			6	011)		
	05-20 Average of daily water con		<u> </u>	33m3/day			!
	05-21 Number of House Connec		-	nil.			
	05-22 Average of daily water consu		(HC) m3/day	nil.			
	05-23 Number of Business Cone			nil.			
	05-24 Type of Business Connect 05-25 Average of daily water consum		School, Gov. office, Hospital .				
		nption of Business Connection	(BC) m3/day	nil.			
	05-26 Other technical specimen						
06	Operation and Maintenace						
	06-01 Organization's name			Town wate			
	06-02 Type of organization		Regional, Zone, Enterprice			tion	
	06-03 Number of thechnical staff			1			
	06-04 Principal works of technic			Pump opera	ation		
	06-05 Number of the financial st	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2	· DE		
				Water sale	at PF		
	06-06 Principal works of financia	al staff	W Point House Connection	ata W naint			
	06-06 Principal works of financia 06-07 Categories of water tariff	al staff	W.Point, House Connection.	etc. W. point			
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate						
	06-06 Principal works of financia 06-07 Categories of water tariff		W.Point, House Connection. Birr/L, 20L Birr/m3	0.1birr/20L	,		
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet		Birr/L, 20L	0.1birr/20L	,		
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection)	Birr/L, 20L Birr/m3	0.1birr/20L nil.			
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income 1 06-10 Procurement of spare parts	by water tariff	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Cap	0.1birr/20L nil. nil. 4,000birr/n	nonth ddis Ababa		
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income I 06-10 Procurement of spare parts	by water tariff	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Cap Oil filter, Fuel filter, Pipes	0.1birr/20L nil. nil. 4,000birr/n etc. Hosaina, A etc Pipe&fittin	nonth ddis Ababa gs		
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income l 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious	by water tariff s at ' repair by Regi	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Cap	0.1birr/20L nil. nil. 4,000birr/netc. Hosaina, Aetc Pipe&fittinetc Zone, Regi	nonth ddis Ababa gs on		
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income l 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious 06-13 Principal serious repair wi	by water tariff s at ' repair by Regi th 5-10 years	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Cap Oil filter, Fuel filter, Pipes onal office, Private company	0.1birr/20L nil. nil. 4,000birr/netc. Hosaina, Aetc Pipe&fittinetc Zone, Regi Pump contr	nonth ddis Ababa gs on rol panel		
	06-06 Principal works of financia 06-07 Categories of water tariff 06-08 Water tariff rate Water point (Public faucet House connection Business connection 06-09 Average monthly income l 06-10 Procurement of spare parts 06-11 Principal spare parts 06-12 Method in case of serious	by water tariff s at ' repair by Regi th 5-10 years	Birr/L, 20L Birr/m3 Birr/m3 Birr/month Town, Zonal Cap. Reg. Cap Oil filter, Fuel filter, Pipes	0.1birr/20L nil. nil. 4,000birr/netc. Hosaina, Aetc Pipe&fittinetc Zone, Regi Pump contr	nonth ddis Ababa gs on rol panel		

S-11 Fonko

07	Problem of actual town water supply			1
07	Problem of actual town water supply 07-01 Technical	_		
	Water source Quantity, Qualityetc.	Shortage wat	tor	
	Water supply facility Decrepit, leakage, design failureetc		ici	
	07-02 Finalcial	1110t grasped		
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	low		
	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	Town status	is changed to Woreda	
	Change in industry increase factory, Tradingetc	Increase trad	ing	
	Human conflict Ethnic, Administrativeetc		<u> </u>	
	07-04 Other specimen			

08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
	Ridge of mountatin along asphalt road			
09				
	Refer to Chapter 4 "Table 4.7"			
			1	
10	Current Water Coverage (%) (by water consumption at faucets)		139%	!
	(33m3*2PF+0m3*0HC+0m3*0BC)=66m3/day 66m3/20Lpcd.= 3,300persons 3,300person	ıs / 2,380 popı		
	Current Water Coverage (%) (by data of water source product))		363%	
	((6.0L)*3600sec.*8hrs)=172800L/day 172800/20Lcd=8640persos 8640persons/2380popul	ation=363%		
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=No A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	t Approached	A/A	-
		c 7.7	,	
10	Along asphalt road at 17km approx from Hosaina * Refer to Chapter 5 "Table 5-7: Categories	s of accessibil		-
13	Manpower Capability of Water Supply Management by Water Office point)		10	
1.4	D (A (B (G (D (E)			
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			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology The	small town is on the gen	ıtle
	hills, construction work is not difficult.	imology. The	sman town is on the gen	
16	Other Donors, NGO's			
17	Main Ethnic Group	Hadiya		
18	Health conditions			
	-1 Medical facilities in Town	Health Cente	er, Private clinic, Drug sto	ore
	-2 Nearest other facilities from Town km	18		
	-3 Main patients of water born diseases persons / year	Mararia	3,932	
		Typhoid	1,035	
		Dysentery	130	
		Diarrhea	89	
		others	1,107	
19	Main economic activities	Trade, Farmi	ing, Waving	
20	Particular comments :			+
20	r arrivina committins .			
21	Remarks:			+
				1
Men	no (Town sketchetc.):			
01		I .	ı I	1
	05-15 Distribution Type			
	GIP 2*1/2"=2,500m PVC 2"=1,350m Total L=3,850m			
	<u> </u>			
	•			
	•			***************************************
	.			
	•			

Data 7.3 Small Town Profile of SNNPRS

S-11 Fonko



S-12 Wada

	SNNPR		9 / 52	
	Name of small town :	Wada	S- 12	
	Name of Woreda :	Mirab Badawo		_
	Name of Zone :	Hadiya	SZ- 02	
	Profile items		Profile	!
01	Population			_
	Town male / female / total Woreda male / female / total	by SNNPR	1,020 1,093 2,113 40,871 42,556 83,427	
	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	T N	C	
	04-01 Water source 04-02 Well spec. De	Type, No. pth., Casing Dia., S.W.L, Yield	Spring*1no., Well (Shallow)*2nos.	
	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	Type, Kva	nil. / Manual	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	24hrs. / 06:00-12:00, 13:00-20:00 (13hrs./day)	
	04-07 Water quality 04-08 Other technical specimen	Iron, Fluorideetc.	Good	
	04-08 Other technical specifici			
05	Existing Water Supply Facilities			1
	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 supply project Spring (On-spot) / Well (Shallow well)	\
	05-04 Intake Type 05-05 Intake No.		1no. / 2nos (1 function))
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	nil.	
	05-07 Power to convey	Pressure, Gravity	nil.	
	05-08 Water treatment		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 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	nil.	
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc.	nil.	
	05-17 Structure Type of water point (Fublic Faucet, FF)	no.	nil.	
	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	0.6m3/day	
	05-21 Number of House Connection (HC)	2	nil.	
	05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC)) m3/day	nil.	
		ool, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection (BC		nil.	
	05-26 Other technical specimen			
0.1				
06	Operation and Maintenace 06-01 Organization's name		Wada 01 kebele water system	
	<u> </u>	egional, Zone, Enterpriceetc.	Community based organization	_
	06-03 Number of thechnical staff	-aai, Zone, Zinorpriceetc.	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. 06-08 Water tariff rate	Point, House Connectionetc.	W. Point (Handpump)	-
	Water point (Public faucet)	Birr/L, 20L	1.0birr/month/household	-
	House connection	Birr/m3	nil.	1
	Business connection	Birr/m3	nil.	
1	06-09 Average monthly income by water tariff	Birr/month	nil.	
		n, Zonal Cap. Reg. Capetc. bil filter, Fuel filter, Pipesetc		_
l		office, Private companyetc		
l	06-13 Principal serious repair with 5-10 years	companyetc	Handpump broken	
l	06-14 Fund for above 6-09, 6-10 by Org	ganization, Gov., Donorsetc.		
	06-15 Other technical specimen			
				1

S-12 Wada

07			1		 1
07	Problem of actual town water supply				
	07-01 Technical	1:44-	Shortage wat		
		ualityetc.			
	Water supply facility Decrepit, leakage, de 07-02 Finalcial	sign famureetc	lacility are ii	iiiieu	
	Management				
	Rate of water tarrif collection		Not grasped		
	Personnel expenses		low		
	Shortage of budget to execute operation & maintenace			lget for O&M	
	07-03 Other incidential, Special specimen		Shortage buc	iget for Octivi	
	Increase in population to consume water coming from other tow	ns, villagesetc	caming from	villages	
		ry, Tradingetc			
		ninistrativeetc	nil.		
	07-04 Other specimen				
08	Geographical condition (Slope on mountaion, bottom of valley, To	op of ridgeetc.)		
	Town is on the hill and slight slope.				
00	N. I. C. C. C. T. W. C. D.				
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)			3%	1
-	(0.6m3*2PF+0m3*0HC+0m3*0BC)=1.2m3/day 1.2m3/20Lpcd.= 60person	s 60persons / 2	,113 populatio		
	Current Water Coverage (%) (by data of water source product))			?? %	
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/2113popul	ation=??%			
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=Onl		Approached	E/E	
	A=Road Width > 6m /B= >3~6m / C= 1~				
	Access is Sub Grade road 16km approx. from Asphalt road * Refer to Chapt		Categories of		
13	Manpower Capability of Water Supply Management by Water Office point)			5	
1.4	D (((D (D (D) D))		1		
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				
	The facility can be designed in an Ethiopian standard, which is not required in	nore advanced tec	hnology. The	small town is on	the gentle
	hills, construction work is not difficult except water sources.		27		
16	Other Donors, NGO's				
	Cathlic church				
17	Main Ethnic Group		Hadiya		
18	Health conditions				
	-1 Medical facilities in Town			r, Health post	
	-2 Nearest other facilities from Town km		Typhoid	4.000	
	-3 Main patients of water born diseases persons / ye	aı	Dysentery	4,000 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.	Doniel Minimi	Domoon -1 M 1	0012604700	
		Daniel Minicipal			
Mon	,	Sodano Supplie	S OTHER MOD.	0710442784	
.viCil	no (Town sketchetc.):			1	L
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Data 7.3 Small Town Profile of SNNPRS

S-12 Wada



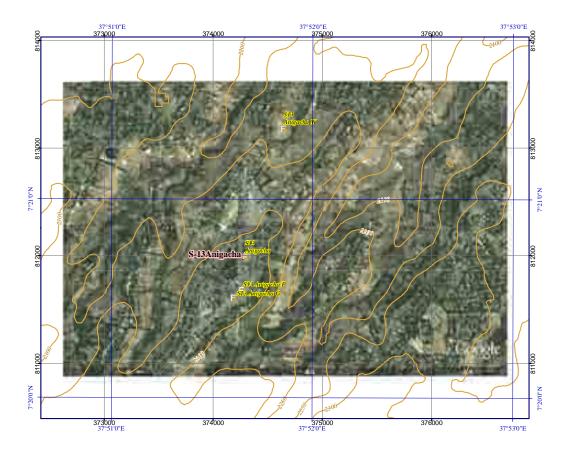
S-13 Anigacha

N.I.	SNNPR ame of small town			/ 19	10 / 5	
		•	Anigacha		S- 13	
	ame of Woreda	:	Anigacha		SW- 09	
N	ame of Zone	:	Kembaya Tim	baro	SZ- 03	3
		Profile items		I	Profile	
Po	pulation					
	Town	male / female / total	by SNNPR	3,486	3,325	6,811
	Woreda	male / female / total	by Census 2007	44,042	44,018	88,060
	percentage of Town in Wo					7.7%
+	wn Coordination	UTM (Adindan)	Easting / Northig / Alt.	374202	811859	2,313
	wn Status			Woreda Capital		
	ater Source		T. N	Well*1		
	-01 Water source		Type, No. Depth., Casing Dia., S.W.L, Yiel		I 99m 55I	/200
	-02 Well spec. -03 Method of water draw	ע	Pump, Gravity	Pump	L-00III, J.JL	/ SCC.
****	-04 Pump Spec.		Type, Yield	Motorized pump	(15kw)	
\$	-04 rump spec. -05 Power source for motorize	d numn	Type, Kva	Commercial Elec		
	-06 Durartion of water draw (C		daily hours, time	06:00-10:30, 13:30		5hrs/day)
	-07 Water quality	peration notice)	Iron, Fluorideetc.	Good		
	-08 Other technical specimen					
Ex	isting Water Supply Facilities					
	-01 Established year		(Gregorian calendar)	2000		
	-02 Financial of implementation		Donor's name	UNICEF		
	-03 Name of implementation (Project name)		Anigacha water j	project	
	-04 Intake Type			Well		
	-05 Intake No.			1		
	-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	GIP, 3", 2,800m		
ļ	-07 Power to convey		Pressure, Gravity	Pressure		
**********	-08 Water treatment		Disinfection, Ironetc.	nil.		
-	-09 Water treatment capacity		m3/day	nil.		
	-10 Water reserver type		Туре	GR		
	-11 Water reserver No.		no.	GR*3nos.		
	-12 Water reserver Capacity -13 Transmission Type (Boost	on numa Cta Doconyoin)	m3 Pipe material, length	50m3, 10m3*2no	OS.	
j	-14 Power to transmit	er pump sm. ~ Reservoir)	Pressure, Gravity	-		
	-15 Distribution Type		Pipe material, length	GIP, 3"&21/2", 3	3 000m	
-	-16 Power to distribute		Pressure, Gravity	Gravity	J,000III	
	-17 Structure Type of water po	int (Public Faucet PF)	RC, Masonry, Pipeetc			
	-18 Number of water point (Pu		no.	10		
	-19 Number of faucet at a water		no.	4		
	-20 Average of daily water cor			1.0 m3/day		
05-	-21 Number of House Connect	ion (HC)		266		
	-22 Average of daily water consu		C) m3/day	0.4m3/day		
05-	-23 Number of Business Cone	ction (BC)		15		
05-	-24 Type of Business Connects	on (BC) Factory, Scl	hool, Gov. office, Hospitalet	Gov.*6, School*2	, Church*6, I	Hospital*1
05-	-25 Average of daily water consum	nption of Business Connection (B	BC) m3/day	0.2m3/day		
05-	-26 Other technical specimen			nil.		
			***************************************		***************************************	
-	peration and Maintenace					
	-01 Organization's name			Town water office	ce	
*******	-02 Type of organization		Regional, Zone, Enterpriceet			
-	-03 Number of thechnical staff			3	D:	
	-04 Principal works of technic			Pump operation,	Pipe repair	
	-05 Number of the financial sta			Pill corretion W	tor motor == -	ling -t-
	-06 Principal works of financia		V.Point, House Connectionetc	Bill corrction, Wa		
	-07 Categories of water tariff -08 Water tariff rate	v	v.roiii, nouse connectionetc	. w. romi, nouse	Connection	
00-	Water point (Public faucet)	Birr/L, 20L	0.2 birr/20L		
	House connection	,	Birr/m3	3.5 birr/m3, Water M	Meter lease 2.0F	oirr/month
\vdash	Business connection		Birr/m3	ditto	2.00	
06-	-09 Average monthly income b	ov water tariff	Birr/month	3,100 birr/month (saving in Ban	k account)
	-10 Procurement of spare parts		wn, Zonal Cap. Reg. Capetc			
	-11 Principal spare parts		Oil filter, Fuel filter, Pipeset			
	-12 Method in case of serious		al office, Private companyet			
	-13 Principal serious repair wit		, , , , , , , , , , , , , , , , , , , ,	Well Pump moto		
	-14 Fund for above 6-09, 6-10		rganization, Gov., Donorsetc			
00-				-4		

S-13 Anigacha

07	Problem of actual town water supply		I	
07	07-01 Technical			
		Qualityetc.	Shortage too	ls, Transportation, Lack of
	Water supply facility Decrepit, leakage, d			
	07-02 Finalcial			
	Management		Not grasped	
	Rate of water tarrif collection		Not grasped	
	Personnel expenses		Not grasped	
	Shortage of budget to execute operation & maintenace		Shortage bud	gets
	07-03 Other incidential, Special specimen			8
	Increase in population to consume water coming from other to	wns. villagesetc	Not grasped	
		ory, Tradingetc		
		lministrativeetc		
	07-04 Other specimen		nil.	
8	Geographical condition (Slope on mountaion, bottom of valley, T	Top of ridgeetc.)	
	Town : Slope of ridge, rolling, up and down			
9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
0				0000
υ	Current Water Coverage (%) (by water consumption at faucets) (1m3*10PF+0.4m3*266HC+0.2m3*15BC)/20Lpdc.=5970 persons 5970p	parsons / 6011 ====	ulation = 00n/	88%
	(1m3*10PF+0.4m3*266HC+0.2m3*15BC)/20Lpdc.=59/0 persons 59/0p Current Water Coverage (%) (by data of water source product))	persons / 6811 popu	шаноп = 88%	116%
		Opersons/6811pop	ulation_1160/	
1	Water Potential (A / B / C / D / E)	opersons/0811pop	uiation=110%	В
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Or		Approached	B / B
	A=Road Width > 6m /B = 326m / C = 1		* 5 .	01
2	From Hosaina Town to Anigacha Town is based cource road (Maddy in we		orox: Refer to	
3	Manpower Capability of Water Supply Management by Water Office poin Office has not any document, record of the existing water supply facility	it)		13
4	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7			
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	hnology. The	small town is on the
	generally flat terrains, construction work is not difficult.			
. 6	Other Donors, NGO's			
	Inter Aide			
7	Main Ethnic Group		Kembata	
/	Main Ethine Group		Kembata	
8	Health conditions			
	-1 Medical facilities in Town			r, Private clinic, Drug stor
	-2 Nearest other facilities from Town km		31	
	-3 Main patients of water born diseases persons / y	year	Typhoid	5,000
			Malaria	3,000
_			Dysentery	1,775
9	Main economic activities		Farming, Tra	de
0	Particular comments :			
-			.1 1	
	Due to growth and water consumption of residents, including surrouding vil			
	reducting water faucets), water coverage has been declined. Therefore, it to	be expected the ra	ies of water p	overty growth rapidly.
1	Remarks:			
_				
en	no (Town sketchetc.) :			
				·
	04-02 Well spec.			
	Well No.1; Established on 2000 / Depth GL-166m / casing dia. 6"/ S	WL GL-88m / 5.5I	_/sec.	
	_			
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	-			
	-			
	- -			
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	- - -			

S-13 Anigacha



S-14 Adilo

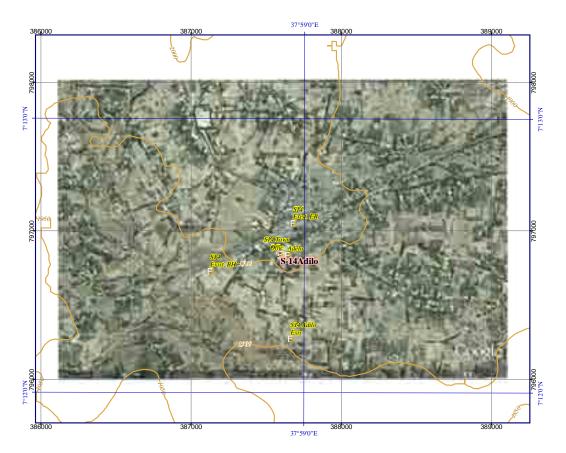
	SNNPR				11 / 52	2
	Name of small town	:	Adilo		S- 14	
	Name of Woreda		Kedia Game	la	SW- 10	
	Name of Zone	:	Kembata Timb	oaro	SZ- 03	
		Profile items			Profile	!
01	Population					
	Town	male / female / total	by SNNPR	2,340	2,319	4,659
	Woreda percentage of Town in Wor	male / female / total	by Census 2007	45,004	45,193	90,197 5.2%
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	387502	796712	1,955
	Town Status			Municipality		
04	Water Source		T N.	Well*2nos.		
	04-01 Water source 04-02 Well spec.		Type, No. Depth., Casing Dia., S.W.L	see memo belov	v	
	04-03 Methor of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.		Type, Yield	Motorized pump	p	
	04-05 Power source		Type, Kva	Generator	.00 10.00 (CL	/4
	04-06 Durartion of water draw 04-07 Water quality		daily hours, time Iron, Fluorideetc.	06:00-09:00, 16 Good	:00-18:00 (6h	rs./day)
	04-08 Other technical specimen		non, ruonaeee.	Good		
05	Existing Water Supply Facilities 05-01 Established year		(Gragorian calandar)	1980 / 2009		
	05-01 Established year 05-02 Financial of implementation	n	(Gregorian calendar) Donor's name	SNNPR / World	l vision	
	05-03 Name of implementation			Adilo water pro		
	05-04 Intake Type			Well		
	05-05 Intake No.	······································	B' ' I I d	2 GIP 2"*700m /	CID 4"*2 000	_
	05-06 Conveyance Type (Water s 05-07 Power to convey	ource ~ Reservoir)	Pipe material, length Pressure, Gravity	Pressure	GIP 4 *2,000II	1
	05-07 Tower to convey		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Type	ER / GR		
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	ER*1no. / GR* ER*8m3 / GR*		
	05-12 Water reserver Capacity 05-13 Transmission Type (Booste	er pump Stn. ~ Reservoir)	Pipe material, length	-	30113	
	05-14 Power to transmit		Pressure, Gravity	-		
	05-15 Distribution Type		Pipe material, length	0m (On-spot) fm	ER / 1*1/2"~4"=	3,411m
	05-16 Power to distribute 05-17 Structure Type of water poi	int (Dublic Foundt, DE)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity		
	05-17 Structure Type of water point (Pul		no.	1 / 6		
	05-19 Number of faucet at a water		no.	6/6		
	05-20 Average of daily water con		m3/day	9.0m3/day		
	05-21 Number of House Connecti 05-22 Average of daily water consur		2/1	2		
	05-22 Average of daily water consult 05-23 Number of Business Conec		m3/day	3.0m3/day nil.		
	05-24 Type of Business Connection		ol, Gov. office, Hospitaletc			
	05-25 Average of daily water consum	ption of Business Connection (BC)	m3/day	nil.		
	05-26 Other technical specimen					
06	Operation and Maintenace					
00	06-01 Organization's name			Water Committe	ee	
	06-02 Type of organization		gional, Zone, Enterpriceetc			
	06-03 Number of thechnical staff			2		
	06-04 Principal works of technica 06-05 Number of the financial sta			Pump operation 5		
	06-06 Principal works of financia			Water fee corre	ction, Bill issue	etc.
	06-07 Categories of water tariff		Point, House Connectionetc.			
	06-08 Water tariff rate		D. 7.00			
	Water point (Public faucet)		Birr/L, 20L Birr/m3	0.4 birr/20L ?? Birr/m3		
	House connection Business connection		Birr/m3 Birr/m3	nil.		
	06-09 Average monthly income b	y water tariff	Birr/month	11,314 birr/mor		
	06-10 Procurement of spare parts	at Town	, Zonal Cap. Reg. Capetc.	Sheshemane, A	wasa	
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc			
	06-12 Method in case of serious r		office, Private companyetc	Regional office Pump motor bro		
	06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc.		JKCII	
	06-15 Other technical specimen	<i>5,</i> 01g				
				T		

S-14 Adilo

07	Problem of actual town water supply		
	07-01 Technical		
	Water source Quantity, Qualityetc.	Water shorta	<u> </u>
	Water supply facility Decrepit, leakage, design failureet		
	07-02 Finalcial		ortage of the Technical staf
	Management	Shorgtage of	repair tools
	Rate of water tarrif collection	Fuel cost	
	Personnel expenses	Power supply	y (not connected Ele. Line
	Shortage of budget to execute operation & maintenace		
	07-03 Other incidential, Special specimen		
	Increase in population to consume water coming from other towns, villagesetc	Coming fron	n villages to demand water
	Change in industry Water office has and take advrease factory, Tradingetc	nil.	
	Human conflict Ethnic, Administrativeetc		
	07-04 Other technical 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"		
1.0	G W G		
10	Current Water Coverage (%) (by water consumption at faucets)		16%
	(9.0m3*1PF+3.0m3*2HC+0m3*0BC)/20Lpcd.= 750persons 750persons/4,659 population	=16%	7
	Current Water Coverage (%) (by data of water source product))	220/	??%
	((??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/4659population	1=??%	
11	Water Potential (A / B / C / D / E)		В
1.0	A THE CAMP OF THE PROPERTY OF		A /D
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	A/B
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	., ., .	
	Access roead is Asphalt road 49km fm Sodo. * Refer to Chapter 5 "Table 5-7: Categories of a	ccessibility"	
13	Manpower Capability of Water Supply Management by Water Office point)		14
			T
14	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
15	New Water Supply Plan		
15	Refer to the Chapter 6		
15	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced tea	chnology. The	small town is on the
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult.	chnology. The	small town is on the
	Refer to the Chapter 6 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
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, whichis not required more advanced to generally flat terrains, construction work is not difficult.	chnology. The	small town is on the
16	Refer to the Chapter 6 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		
16	Refer to the Chapter 6 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	
16 17	Refer to the Chapter 6 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 17	Refer to the Chapter 6 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	Kembata, Ha	ndiya
16 17	Refer to the Chapter 6 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	Kembata, Ha	ndiya er, Private clinic, Drug stor
16 17	Refer to the Chapter 6 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	Kembata, Ha Health Cente	ndiya er, Private clinic, Drug stor
16 17	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia	ndiya er, Private clinic, Drug stor 10,220
16 17	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia Dysentery	adiya er, Private clinic, Drug stor 10,220 977
16 17	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid	adiya er, Private clinic, Drug stor 10,220 977 357
117 118	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	er, Private clinic, Drug stor 10,220 977 357 761
117 118	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	adiya er, Private clinic, Drug stor 10,220 977 357
16 17 18	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	er, Private clinic, Drug stor 10,220 977 357 761
16 17 18	Refer to the Chapter 6 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:	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	er, Private clinic, Drug stor 10,220 977 357 761
16 17 18	Refer to the Chapter 6 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	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others	er, Private clinic, Drug stor 10,220 977 357 761
16 17 18	Refer to the Chapter 6 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:	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra	ndiya er, Private clinic, Drug stor 10,220 977 357 761 nde, Livestock
116 117 118 119 220	Refer to the Chapter 6 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: 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	ndiya er, Private clinic, Drug stor 10,220 977 357 761 nde, Livestock
116 117 118 119 220	Refer to the Chapter 6 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 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	ndiya er, Private clinic, Drug stor 10,220 977 357 761 nde, Livestock
116 117 118 119 220	Refer to the Chapter 6 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: 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	ndiya er, Private clinic, Drug stor 10,220 977 357 761 nde, Livestock
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16 17 18 19 20	Refer to the Chapter 6 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: 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: no (Town sketchetc.): 04-02 Well spec. Well No.1; Depth=GL-250m, Casing Dia. ??", S.W.L.= ??m, Yield ??L/sec. (EstablishNot. Working (Generator broken 04/Feb/2011)	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new ed 1981)	er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
16 17 18 19 20	Refer to the Chapter 6 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: 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: no (Town sketchetc.): 04-02 Well spec. Well No.1; Depth=GL-250m, Casing Dia. ??", S.W.L.= ??m, Yield ??L/sec. (Establish	Kembata, Ha Health Cente 17 Mararia Dysentery Typhoid others Farming, Tra planning new ed 1981)	er, Private clinic, Drug stor 10,220 977 357 761 ade, Livestock
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Data 7.3 Small Town Profile of SNNPRS

S-14 Adilo



S-15 Daniboya

	SNNPR		<u> </u>		12 / 52	1
	Name of small town	:	Daniboya		S- 15	_
	Name of Woreda		Daniboya		SW- 11	
	Name of Zone	:	Kembata Timb	oaro	SZ- 03	
		Profile items		Pro	file	!
01	Population					
	Town	male / female / total	by SNNPR	4,228	3,883 8,111	
	Woreda	male / female / total	by Census 2007	41,119 4	0,652 81,771	
	percentage of Town in Wor			202055	9.9%	_
	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.		12084 2,165	1
	Town Status Water Source			Woreda Capital		1
0+	04-01 Water source		Type, No.	Well*2nos.		-
	04-02 Well spec.		Denth., Casing Dia., S.W.L	See belo memo		
	04-03 Methor of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.		Type, Yield	Motorized pump		
	04-05 Power source		Type, Kva	Commercial Elec., S		
	04-06 Durartion of water draw		daily hours, time	06:30-11:30, 15:00-18	:00 /day (8hrs/day)	ļ
	04-07 Water quality		Iron, Fluorideetc.	Good		-
	04-08 Other technical specimen					
)5	Existing Water Supply Facilities					+
	05-01 Established year		(Gregorian calendar)	1996		
	05-02 Financial of implementatio	n	Donor's name	SNNPR		<u> </u>
	05-03 Name of implementation			Daniboya water pro	ject	
	05-04 Intake Type			Well		
	05-05 Intake No.			1		
	05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP, 3", 10m		
	05-07 Power to convey		Pressure, Gravity	Pressure		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		ļ
	05-09 Water treatment capacity		m3/day	nil. GR		
	05-10 Water reserver type 05-11 Water reserver No.		Type no.	GR*3nos.		-
	05-12 Water reserver Capacity		m3	75m3, 20m3, 8m3 e	9	-
	05-13 Transmission Type (Booste	er numn Stn. ~ Reservoir)	Pipe material, length	nil.	a.	
	05-14 Power to transmit	r panip san Treservon)	Pressure, Gravity	nil.		1
	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		no.	8		ļ
	05-19 Number of faucet at a wate			6		ļ
	05-20 Average of daily water con		PF) m3/day	5m3/day		-
	05-21 Number of House Connects 05-22 Average of daily water consur		HC) m3/day	161 0.166m3/day		ļ
	05-22 Average of daily water consult 05-23 Number of Business Conec		ic) iii3/day	0.100m3/day		
	05-24 Type of Business Connecti		chool, Gov. office, Hospitaletc		th Center*1. Chrch*2	
	05-25 Average of daily water consum			0.2m3/day		·
	05-26 Other technical specimen	•	3			†
)6	Operation and Maintenace					ļ
	06-01 Organization's name			Town water supply	office	ļ
	06-02 Type of organization		Regional, Zone, Enterpriceetc	Zone		ļ
	06-03 Number of thechnical staff			Pump operation, Plump	umbin.	-
	06-04 Principal works of technica 06-05 Number of the financial sta			Pump operation, Pit	ımoınş	
	06-06 Principal works of financia			Water meter read, B	ill	
	06-07 Categories of water tariff		W.Point, House Connectionetc			
	06-08 Water tariff rate		,	1 .,		1
	Water point (Public faucet)		Birr/L, 20L	0.25 birr/20L		
	House connection		Birr/m3	see below memo		
	Business connection		Birr/m3	ditto		ļ
	06-09 Average monthly income b		Birr/month	8,512birr/month		
	06-10 Procurement of spare parts	at To	own, Zonal Cap. Reg. Capetc.			-
	06-11 Principal spare parts 06-12 Method in case of serious r	onois b. D '	Oil filter, Fuel filter, Pipesetc		ııttıng	_
	un- i / iviernod in case of serious r	epair by Regio	nal office, Private companyetc	Zone		1
		h 5 10 veers		Ganarator bealian		
	06-13 Principal serious repair wit		Organization Gov Donors ata	Generator broken Town Adiministrati	on Municipality	
			Organization, Gov., Donorsetc		on, Municipality	

S-15 Daniboya

7	Problem of actual town water supply			
	07-01 Technical			
	Water source	Quantity, Qualityetc.		k design (low pressure,
	Water supply facility	Decrepit, leakage, design failuree	tc.Reservoir ca	pacity)
	07-02 Finalcial			
	Management			iff correction
	Rate of water tarrif collection		Not grasp	
	Personnel expenses		No answer	
	Shortage of budget to execute operation & mai	ntenace	Shortage ski	lled manpowε
	07-03 Other incidential, Special specimen			
	Increase in population to consume water	coming from other towns, villagese		n population
	Change in industry	increase factory, Tradinge		
	Human conflict	Ethnic, Administrativee	tc nil.	
	07-04 Other technical specimen			
)8		on, bottom of valley, Top of ridgeet	c.)	
	Gentle slope on mountain			
)9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
	G W G G G G			
10	Current Water Coverage (%) (by water consumption			42%
	(5.0m3*8PF+0.166m3*161HC+0.20m3*11BC)/20L		111 population	**************************************
	Current Water Coverage (%) (by data of water source		022	??%
	((2.1L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd	=???persos ???persons/8111populat	on='?'?%	
11	Water Potential (A / B / C / D / E)			В
				0.0
12		Course/C=Sub Grade/D=Only Dry Season/E=N	ot Approached	C/C
		$-6 \text{m/B} = >3 \sim 6 \text{m/C} = 1 \sim 3 \text{m/D} = <1 \text{m}$		5. 6. .
	Access road is Asphalt and Sub grade (only dry seaso		ter 5 "Table 5-	
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			
	Refer to the Chapter 6			
	The facility can be designed in an Ethiopian standard	-	echnology. The	e small town is on the
1.0	generally flat terrains, construction work is not diffic	uit.		
16	Other Donors, NGO's			
17	M ' Ed ' C		TZ 1 4	
1 /	Main Ethnic Group		Kembata	
10	II14b 4'4'			
18	Health conditions		HW C	an Daireata all 1 D
	-1 Medical facilities in Town	I _{rm}		er, Private clinic, Drug sto
	-2 Nearest other facilities from Town	km	Mararia 12	
	-3 Main patients of water born diseases	persons / year	Mararia	1,000
			Typhoid	200
1.0	M 1 2 22		Dysentery	150
19	Main economic activities		Farming, Tr	ade
20	Particular comments :			
20	Ground water is deep, 200m drilled is dry 2nd. Well	wass dry up to 275m total danth drillad	lis 300m & O	-2 11/sec
	The willing to pay of residents is high.	wass dry up to 275m total depth drifted	1 13 300III & Q	-2.11/SCC.
	The wining to pay of residents is high.			
71	Remarks:			
- 1	Inclinated .			
1er	o (Town sketchetc.) :			
1011		I		<u> </u>
	04-02 Well spec.			
		dia.??" / SWL GL-??m / ??L/sec.	Abandon	
	Well No.2; Estbsh on ?? GL-300m / Casir	ng dia.6" / SWL GL-228.4m / 2.1L/sec.		
	05-15 Distribution Type GIP			
	ND-3"=2,000m ND-2*1/2"=1,00	0m ND-2"=3,000m		
	ND-1*1/2"=2,000m ND-1*500m	112-2 -3,000m	Total=8,500	lm
	11D-1 1/2 -2,000III 11D-1 -300III		10.a1-0,500	
	06-08 Water tariff rate (House & Buisiness Connection	on)		
	0~5 m3 =6.0birr/m3 21~ 30m3 =6.75l	pirr/m3 Water Meter Lease		
	6~10 m3 =6.25birr/m3 31m3 ~ = 7.00bir	rr/m3 ND-1/2"=3.0birr/month	ND-1"=5.0b	oirr/month

D7-157

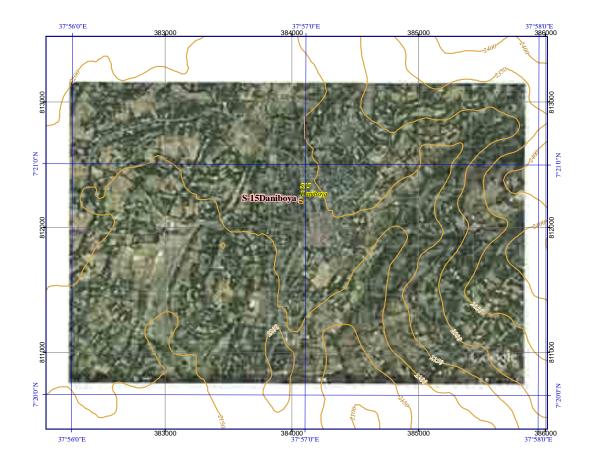
ND-3/4"=4.0birr/month

ND-1*1/2"=6.0birr/month

11~20 m3 =6.50birr/m3

Data 7.3 Small Town Profile of SNNPRS

S-15 Daniboya



S-16 Leku

SNNPR			13 / 5	
Name of small town		Leku	S- 16	
Name of Woreda	:	Shebedio	SW- 12	
Name of Zone	:	Sidama	SZ- 04	
	Profile items		Profile	
01 Population				
Town	male / female / total	by SNNPR	6,290 5,520	11,810
Woreda percentage of Town in	male / female / total	by Census 2007	95,888 93,947	189,835 6.2%
02 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	438137 759326	1,868
03 Town Status	0 21.2 (1 22.1.2.1.2)		Municipality	2,000
04 Water Source				
04-01 Water source		Type, No.	Well*2nos.	
04-02 Well spec.		Denth., Casing Dia., S.W.L		
04-03 Methor of water draw 04-04 Pump Spec.		Pump, Gravity Type, Yield	Pump Motorized pump	
04-04 Pullip Spec.		Type, Kva	Commercial Elec. (No.1 with Stand	dby GE)
04-06 Durartion of water draw	1	daily hours, time	06:00-09:00, 15:00-18:00 (6h	
04-07 Water quality	the state of the s	Iron, Fluorideetc.	Good (No.2 well has turdbidit	
04-08 Other technical specime	en		nil.	
05 Existing Water Supply Facility	es		• • • • • • • • • • • • • • • • • • • •	
05-01 Established year		(Gregorian calendar)	Aug. 2008	
05-02 Financial of implementation 05-03 Name of implementation		Donor's name	Plan Ethiopia Leku water project	
05-04 Intake Type	II		Well	
05-05 Intake No.			2	
05-06 Conveyance Type (Wat	er source ~ Reservoir)	Pipe material, length	GIP / 4" / L=511m * 2 networ	k
05-07 Power to convey		Pressure, Gravity	Pressure	***************************************
05-08 Water treatment		Disinfection, Ironetc.	nil.	
05-09 Water treatment capacit	y	m3/day	nil.	
05-10 Water reserver type	***************************************	Туре	GR	
05-11 Water reserver No.	-	no. m3	2 nos. 100m3 * 2 nos.	
05-12 Water reserver Capacity 05-13 Transmission Type (Bo		Pipe material, length	1001115 * 2 1108.	
05-14 Power to transmit	oster pump still. Reservoir)	Pressure, Gravity	-	
05-15 Distribution Type		Pipe material, length	GIP / 6", 2*1/2"~1*1/2" / L=1	1,000m
05-16 Power to distribute		Pressure, Gravity	Gravity	
05-17 Structure Type of water		RC, Masonry, Pipeetc.		
05-18 Number of water point		no.	28	
05-19 Number of faucet at a w		no.	4	
05-20 Average of daily water 05-21 Number of House Conn	consumption at a water point (l	PF) m3/day	10m3/day 400 / (500 back order)	
	nsumption of House Connection(H	IC) m3/day	0.225m3/day	
05-23 Number of Business Co		ic) iii3/day	same as house connection	
05-24 Type of Business Conn		hool, Gov. office, Hospitaletc	Hotel	
	sumption of Business Connection (I		same as house connection	
05-26 Other technical specime	n		nil.	
Operation and Maintenace			T 1	
06-01 Organization's name 06-02 Type of organization	***************************************	Regional, Zone, Enterpriceetc	Leku town water supply enterp	orice
06-03 Number of thechnical st	aff	Regional, Zone, Enterpriceetc	7	
06-04 Principal works of technical s			Pump operation, Mechanic	
06-05 Number of the financial			5	
06-06 Principal works of finar	icial staff		Water meter read, Bill, Procuremen	ntetc.
06-07 Categories of water tari	ff	W.Point, House Connectionetc.	W. Point / House & Business Co	nnection
06-08 Water tariff rate		D: # 201	0.151; /001 /	1: / 2
Water point (Public fau	cet)	Birr/L, 20L	0.15birr/20L (contract price 6.0	
House connection Business connection		Birr/m3	5.0birr/0~10m3 / 5.5birr/>10m ditto	15
06-09 Average monthly incon	ne by water tariff	Birr/m3 Birr/month	17.000birr/month	
06-10 Procurement of spare pa		own, Zonal Cap. Reg. Capetc.	Awasa	
06-11 Principal spare parts	at 10	Oil filter, Fuel filter, Pipesetc		er of GE
06-12 Method in case of serio		nal office, Private companyetc		
06-13 Principal serious repair	with 5-10 years		Well pump broken	
06-14 Fund for above 6-09, 6-	10 by C	Organization, Gov., Donorsetc.		
06-15 Other technical specime	n		nil.	
			l	

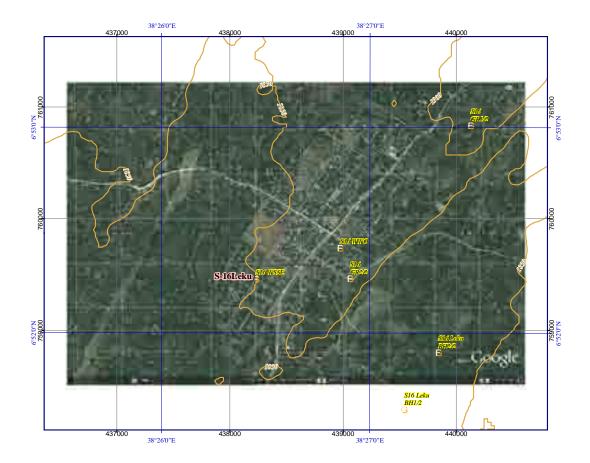
S-16 Leku

07	D L		1		
07	Problem of actual town water supply 07-01 Technical				
	Water source	O	NT		ļ
		Quantity, Qualityetc. it, leakage, design failureetc	No response	on in distribution network	ł
	07-02 Finalcial	it, leakage, design famureetc	Lack of desig	gii iii distribution network	
	Management		No response		
	Rate of water tarrif collection		No response		
	Personnel expenses		Skill of techr	nical staff	
	Shortage of budget to execute operation & maintenace		No response	near starr	
	07-03 Other incidential, Special specimen		140 response		·
		rom other towns, villagesetc	village neonl	es	-
		ncrease factory, Tradingetc			
	Human conflict	Ethnic, Administrativeetc			
	07-04 Other technical specimen	Edinie, 7 Idinimistrati veete	nil.		
	O O O O O O O O O O O O O O O O O O O				
08	Geographical condition (Slope on mountaion, botton	of valley, Top of ridgeetc.)		
	Town: Flat area	,,	<u>/</u>		1
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				

					ļ
10	Current Water Coverage (%) (by water consumption at faucets)		157%	!
	(10m3*28PF+0.225m3*400HC)=370m3/day 370m3/20Lpcd.		ons / 11,810 n	opulation = 157%	
	Current Water Coverage (%) (by data of water source product))		332%	1
	((16.9L+10.33L)*3600sec.*8hrs)=784224L/day 784224/20Lc		ons/11810pop	ulation=332%	1
11	Water Potential (A / B / C / D / E)		1.1	A	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=S	ub Grade/D=Only Dry Season/E=Not	t Approached	A/A	
		3~6m / C= 1~3m / D= <1m			1
	Access road is Asphalt road 22km from Awasa * Refer to Chap	ter 5 "Table 5-7: Categories of	accessibility"		
13	Manpower Capability of Water Supply Management by Water		Ž	19	
	Head, chief of administration are grasp facility, data and has do		wings		
	Treat, one of the manufacture and grap receive, and the manufacture	cumon una recordo estespe una	.,,,,,,,,,		
14	Dgree of urgency (A / B / C / D / E)				
17	Refer to Chapter 5 & 7				

15	New Water Supply Plan				
10	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.	•	27		
16	Other Donors, NGO's				İ
	Plan Ethiopia				
17	Main Ethnic Group		Sidama, Gura	age	
18	Health conditions				
	-1 Medical facilities in Town		Health Cente	r, Private clinic, Drug stor	re
	-2 Nearest other facilities from Town	km	27		
	-3 Main patients of water born diseases	persons / year	Mararia	240	
			Typhoid	208	
			Dysentery	136	
			Cholera	101	
	-		Diarrhea	89	
19	Main economic activities		Trade, Farmi	ng	ļ <u> </u>
20	D (' 1				<u> </u>
20	Particular comments :	2000			
	The existing water supply facility was constructed by NGOon 2	2008.			4
21	Dl				<u> </u>
21	Remarks:				ļ
					
					ļ
		1		1	-
Men	no (Town sketchetc.):			1	<u> </u>
	04 00 W. II				-
	04-02 Well spec.	N 01 / 01 1	- OT /		ļ
	Well No.1; Establish on 2008 / Depth GL-146m / Casing				,
	Well No.2; Establish on 2008 / Depth GL-162m / Casing	g aia. 8" / SWL GL-33.10m / 1	U.33L/sec. W	ater has turbidity	1
	•				

S-16 Leku



S-17 Kebado

	SNNPR			14 / 52	
ı	Name of small town	:	Kebado	S- 17	
I	Name of Woreda		Dara	SW- 13	
ı	Name of Zone	:	Sidama	SZ- 04	
		Profile items		Profile	!
01 F	Population				
	Town	male / female / total	by SNNPR	4,239 4,126 8,365	
	Woreda	male / female / total	by Census 2007	77,811 80,055 157,866	
02 1	percentage of Town in Wor Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	5.3% 427292 715624 1,804	
_	Town Status	C 1141 (Fidilidail)	Easting / Horang / Tite.	Woreda Capital	
ļ	Water Source				
ļ	04-01 Water source	T	Type, No.	Well * 2nos.	ļ
	04-02 Well spec. 04-03 Methor of water draw	L	Depth., Casing Dia., S.W.L, Yield Pump, Gravity	Pump	
****	04-04 Pump Spec.		Type, Yield	Motorized pump	
}	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	
ļ	04-07 Water quality		Iron, Fluorideetc.	Good	ļ
U	04-08 Other technical specimen				
05 E	Existing Water Supply Facilities				
ļ	05-01 Established year		(Gregorian calendar)	1980	
· · · ·	05-02 Financial of implementation	n	Donor's name	SNNPR	
	05-03 Name of implementation			Kabado water supply project	
	05-04 Intake Type 05-05 Intake No.			Well 2 nos.	
	05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP, 2*1/2" 472m, 3" 1,453m (total 1,925m)	ļ
	05-07 Power to convey	ource reservoir)	Pressure, Gravity	Pressure	
0	05-08 Water treatment		Disinfection, Ironetc.	nil.	
į	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type 05-11 Water reserver No.		Туре	GR GR*1no.	
·	05-11 Water reserver No.		no. m3	75m3	
	05-13 Transmission Type (Booste	er pump Stn. ~ Reservoir)	Pipe material, length	nil.	
0	05-14 Power to transmit	* *	Pressure, Gravity	nil.	
june	05-15 Distribution Type		Pipe material, length	GIP 3/4"~2*1/2" (total 1,896m)	ļ
	05-16 Power to distribute 05-17 Structure Type of water poi	int (Dublin France DE)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity	
	05-17 Structure Type of water point (Pul		no.	9	
	05-19 Number of faucet at a water		no.	6	ļ
	05-20 Average of daily water con		PF) m3/day	2.04m3/day	
	05-21 Number of House Connecti			224	
·	15-22 Average of daily water consum 15-23 Number of Business Conec		(C) m3/day	0.04m3/day 13	
ļ	05-24 Type of Business Connection		hool, Gov. office, Hospitaletc		
	05-25 Average of daily water consum			0.46m3/day	
Ō	05-26 Other technical specimen				
06	Onamation and Maint				
	Operation and Maintenace 06-01 Organization's name			Town water supply service	ļ
·	06-02 Type of organization		Regional, Zone, Enterpriceetc		
0	06-03 Number of thechnical staff			2	
-	06-04 Principal works of technica			Pump operation, Plumbing	
jeve	06-05 Number of the financial sta			Wyster moster readin - D:II	
	06-06 Principal works of financia 06-07 Categories of water tariff		W.Point, House Connectionetc	Water meter reading, Bill Water point, House Connection	
	06-08 Water tariff rate			, water point, House Connection	ļ
ľ	Water point (Public faucet)		Birr/L, 20L	0.2birr/20L	
 	House connection		Birr/m3	3.25birr/0~5m3, 2.75birr/5m3~	
ļ	Business connection	100	Birr/m3	ditto	ļ
ļ	06-09 Average monthly income b 06-10 Procurement of spare parts		Birr/month	2,650	
		at 10	own, Zonal Cap. Reg. Capetc. Oil filter, Fuel filter, Pipesetc		ļ
0					
0	06-11 Principal spare parts	epair by Region			
0			nal office, Private companyetc		
000	06-11 Principal spare parts 06-12 Method in case of serious r	h 5-10 years		Zone, Region Well rehabilitation (cleani	

S-17 Kebado

07	Problem of actual town water supply		· · · · · · ·		
07	Problem of actual town water supply 07-01 Technical				
	Water source	Quantity, Qualityetc.	Not grasp		
	Water source Water supply facility	Decrepit, leakage, design failureetc		ter point. Pine network	
	07-02 Finalcial	Decrepit, leakage, design fandreete	ionortage was	ter point, 1 ipe network	
	Management Management		Measure of t	ransportaion	
	Rate of water tarrif collection		ivicasure or t	ransportation	
	Personnel expenses		Shortage		
	Shortage of budget to execute operation &	maintanaca		budget for maintainance	Δ
	07-03 Other incidential, Special specimen	mamenace	Shortage of t	buuget for maintainance	-
			In arrange Toy	rm monulation	
	Increase in population to consume water	coming from other towns, villagesetc	Thereace Tov	vii popuiation	
	Change in industry	increase factory, Tradingetc. Ethnic, Administrativeetc		ding buisiness	
	Human conflict	Ethnic, Administrativeetc	n11.		
	07-04 Other technical specimen				
ne	Geographical condition (Slope on mou	ntaion, bottom of valley, Top of ridgeetc.)	\		
00	Geographical condition (Stope on mou	intaion, bottom of valley, Top of Hugeetc.)	,		
na	Necessary Institution (Facility, Material)				
J	Refer to Chapter 4 "Table 4.7"				
	Refer to Chapter 4 Table 4.7				
10	Current Water Coverage (%) (by water consumption	tion at faucets)		20%	-+
	(2.04m3*9PF+0.04m3*224HC+0.46*13BC)=33		1.665percon		20%
	Current Water Coverage (%) (by data of water so		1,005pc180ll	% 8,303 population = 2	20 /0
	((8.0L+??L)*3600sec.*8hrs)=??day ??/20Lcd=?			70	
1	Water Potential $(A/B/C/D/E)$::persors/8303population=::/0		A	
. 1	water rotelliar (A/B/C/D/E)			A	-
2	Accessibility (A / B / C / D / E) A=Asphalt/B=B	ase Course/C=Sub Grade/D=Only Dry Sascon/E=Not	Annroached	B/A	
14		th > 6 m $/$ B= $>3\sim6$ m $/$ C= $1\sim3$ m $/$ D= <1 m	pproacticu	D/A	
	A=Road wild Access road is Asphalt road and Sub grade (only		ter 5 "Toblo 5	i-7: Categories of socce	cibi
12	Manpower Capability of Water Supply Managem		ter 5 Table 5	13	SIUI
13	Manpower Capability of Water Supply Managem	ent by Water Office point)		13	-
				T	
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
	Refer to the Chapter 6		1 1 751	11	
	The facility can be designed in an Ethiopian stand		cnnology. The	e small town is on the g	gentie
1.0	ridge, however, construction work is not difficult.				
10	Other Donors, NGO's				
	Refer to the Chapter 6				
17	Main Ethnia Carre		C: 1		
l /	Main Ethnic Group		Sidama		
10	Health conditions				
18	Health conditions		H M C	D:	
	-1 Medical facilities in Town	1	Health Cente	er, Private clinic, Drug s	
	-2 Nearest other facilities from Town	km	8	250	
	-3 Main patients of water born diseases	persons / year	Dysentery	350	
			Malaria	210	
			Typhoid	205	
1.0	M. 1		others	180	
19	Main economic activities		1rade, Lives	tock, Waving	
20	Particular comments :				
20	Particular comments :				
) 1	Remarks:				+
. 1	remars.				
La ·	o (Town skatala ata)	1		ı	+
ien	o (Town sketchetc.):	1			L
	04 02 Wall space				
	04-02 Well spec.	72m / Cosing dia (*5/0" / 537 Ct 54 / / 2	OI /a	h Stand k C	D#-1
		72m / Casing dia. 6*5/8" / SWL GL-54m / 8			Bro
	Well No.2; Establish on 2009 / Depth GL-	??m / Casing dia. ??" / SWL GL-??m / ??L/s	ec. (Not yet	use)	

Data 7.3 Small Town Profile of SNNPRS

S-17 Kebado



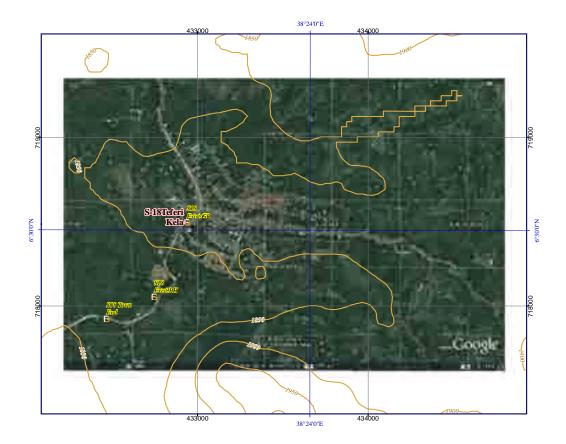
S-18 Teferi Kela

	SNNPR		15 / 52	
	Town Name & ID No. :	Teferi Kela	S- 18	
	Woreda Name & ID No. :	Dara	SW- 13	
	Zone Name & ID No. :	Sidama	SZ- 04	
	Profile items		Profile	!
01	Population Town male / female / total by SN	INIDD	2,153 2,025 4,	178
		nsus 2007	77,811 80,055 157,	
		ng / Northig / Alt.	432846 718356 1,	874
	Water Source		Municipality	
0.	04-01 Water source Type,	No.	Well*1no.	
	04-02 Well spec. Depth., Car	sing Dia., S.W.L, Yield		
		, Gravity		
		Yield		
	04-05 Power source for motorized pump Type,			
	<u> </u>	hours, time	06:00-12:00 (6hrs./day)	
	04-07 Water quality Iron, 04-08 Other technical specimen	Fluorideetc.	Good	
	*			
05	Existing Water Supply Facilities		1067	
		orian calendar) r's name	1967 China	
	05-03 Name of implementation (Project name)	i s name	Teferi Kella town water supply pro	iect
	05-04 Intake Type		Well	jeet
	05-05 Intake No.		lno.	
		naterial, length	GIP, 2", 1,000m	
		are, Gravity	Pressure	
		fection, Ironetc.	nil.	
	05-09 Water treatment capacity m3/da	ıy	nil.	
	05-10 Water reserver type Type		GR	
	05-11 Water reserver No. no.		1no.	
	05-12 Water reserver Capacity m3		50m3	
		naterial, length	nil.	
	<u> </u>	ire, Gravity	nil.	
		naterial, length are, Gravity	2*1/2" 1,350m, 1*1/2" 2,050m (Total 3,400 Gravity	Jm)
		, 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)		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)		30	
			Gov., Chrch Health center, Mosque	•
	05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen	m3/day	0.233m3/day	
0.0				
Ub	Operation and Maintenace 06-01 Organization's name		Teferi Kella water supply system	
		Zone, Enterpriceetc.		
	06-03 Number of thechnical staff	,priceetc	1	
	06-04 Principal works of technical staff		Pump operation	
	06-05 Number of the financial staff		nil.	!
	06-06 Principal works of financial staff		nil.	!
		louse Connectionetc.	W. Point, House connectin	
	06-08 Water tariff rate			
		., 20L	0.2birr/20L	
	House connection Birr/n		See below memo	
	Business connection Birr/n		ditto 6,000birr/month	
	06-09 Average monthly income by water tariff 06-10 Progressment of cross parts at Town Zone		6,000birr/month Dilla	
		1 0 1	Water meter, Pipes&fittings	
		Private companyetc		
	06-13 Principal serious repair with 5-10 years	1117ate companyetc	Not grasped	
l		on, Gov., Donorsetc.	Wareda water office	
İ	06-15 Other technical specimen			

S-18 Teferi Kela

07	Darkland 6 - 414	1		1
07	Problem of actual town water supply 07-01 Technical			
	Water source Quantity, Qualityetc.	Shortage wa	ter	
	Water supply facility Decrepit, leakage, design failure			<u> </u>
	07-02 Finalcial			
	Management	nil.		†
	Rate of water tarrif collection	nil.		
	Personnel expenses	low		
	Shortage of budget to execute operation & maintenace	Shortage bud	dget for O&M	
	07-03 Other incidential, Special specimen			<u> </u>
	Increase in population to consume water coming from other towns, villages	tc.nil.		
	Change in industry increase factory, Tradinge	tc.nil.		
	Human conflict Ethnic, Administrative	tc.nil.		T
	07-04 Other specimen			
80	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeet	c.)		_
	Town is on flat area			<u> </u>
				ļ
00	N. J. C. C. W. M. C. D.			-
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)		40%	1
	(1.4m3*8PF+0.17m3*90HC+0.233m3*30BC)=33.5m3/day 33.5m3/20Lpcd.= 1,675person	ıs 1,675nerso)9
	Current Water Coverage (%) (by data of water source product))		?? %	1
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/4178population=??%		и	
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/A	
	A=Road Width > $6m / B= >3 \sim 6m / C= 1 \sim 3m / D= <1m$,	1
	Access is Base course road 7km approx. from Asphalt road at Kebado (15km from Dila) * I	Refer to Chapter	5 "Table 5-7: Categories	c
13	Manpower Capability of Water Supply Management by Water Office point)		12	
			^	7
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
				<u> </u>
15	New Water Supply Plan			<u> </u>
	The facility can be designed in an Ethiopian standard, whichis not required more advanced	echnology. The	e small town is on the	
	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			+
10	Other Dollors, 100 s			
17	Main Ethnic Group	Sidama, Silt	e	
18	Health conditions			
	-1 Medical facilities in Town	Health Cente	er, Private clinic, Drug sto	re
	-2 Nearest other facilities from Town km	17		
	-3 Main patients of water born diseases persons / year	Dysentery	400	
		Typhoid	309	ļ
		Mararia	150	-
		others	200	
19	Main economic activities	Trade, Lives	tock, Waving	
20	Destination and the second sec			+
20	Particular comments :			_
	Town has 2 wells and 2nd. well was constructed by SNNPRon 2009. However, this well is	not under opera	tiong due to there is no pla	ւր
	of other water supply facility.			-
21	Remarks:			+
-1	Mr. Belayneh Biftu Kebad	o Town Wss H	ead Mob. 0910084580	
	Mr. Dangiso Daniso Wate			-
	Mr. Gizaw Balcha Plannin		fficef 0913165442	
Men	no (Town sketchetc.) :			
		<u> </u>	· · ·	
	06-08 Water Tariff (House and Business Connection)			
	0 ~ 5 m3 = 3.25birr/m3			
	6 ~ 10m3= 3.75birr/m3		***************************************	
			·	
	-			
	-			
	•			

S-18 Teferi Kela



S-19 Goreche

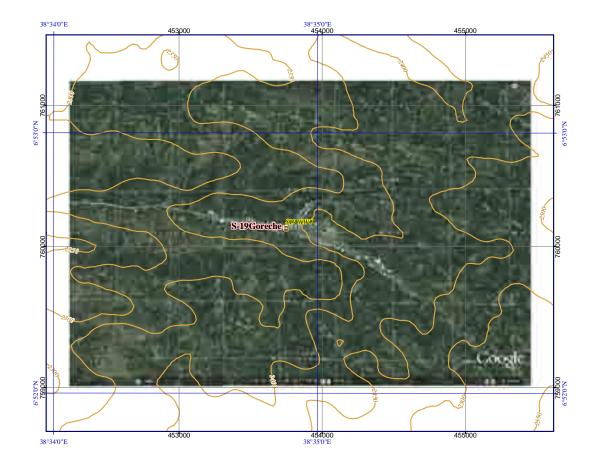
	SNNPR			16	/ 52	
	Name of small town : Gorech	he		S-	19	
	Name of Woreda : Gorech	he		SW-	14	
	Name of Zone : Sidam	na		SZ-	04	
	Profile items			Profile		!
01	Population Town male / female / total by SNNPR		1,614	1,372	2,986	
	Woreda male / female / total by Census 2007 percentage of Town in Woreda		70,816	68,964	139,780 2.1%	
	Town Coordination UTM (Adindan) Easting / Northig / Alt. Town Status	W	453653 Voreda Capita	759991 al	2,387	
04	Water Source					
	04-01 Water source Type, No. 04-02 Well spec. Depth., Casing Dia., S.W.L, Y		oring (On-spo	ot)		
	04-02 Wen spec. Depth., Cashig Dia., S. W.L., 1 04-03 Method of water draw Pump, Gravity	ni				
	04-04 Pump Spec. Type, Yield	ni				
	04-05 Power source for motorized pump Type, Kva	ni				
	04-06 Durartion of water draw (Operation hours) daily hours, time	24	hrs. (Actual	10hrs./day)		
	04-07 Water quality Iron, Fluorideetc.	G	ood			
	04-08 Other technical specimen					
05	Existing Water Supply Facilities					
	05-01 Established year (Gregorian calendar)		005			
	05-02 Financial of implementation Donor's name		NNPR			
	05-03 Name of implementation (Project name)		orche spring		it project	
	05-04 Intake Type 05-05 Intake No.		oring (On-spo	ot)		
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe material, length	ni	10. 1			
	05-07 Power to convey Oscillatorial design of the convey	ni				
	05-08 Water treatment Disinfection, Ironetc.				***************************************	
	05-09 Water treatment capacity m3/day	ni				
	05-10 Water reserver type Type	ni	1.			
	05-11 Water reserver No. no.	ni	1.			
	05-12 Water reserver Capacity m3	ni	1.			
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length	ni				
	05-14 Power to transmit Pressure, Gravity	ni				
	05-15 Distribution Type Pipe material, length	ni				
	05-16 Power to distribute Pressure, Gravity 05-17 Structure Type of water point (Public Faucet, PF) RC, Masonry, Pipe	ni	I. Iansonry			
	05-17 Structure Type of Water point (Public Faucet, PF) RC, Masoliry, Pipe 05-18 Number of water point (Public Faucet, PF) no.		(On-spot)			
	05-19 Number of faucet at a water point (Public Faucet, PF) no.	2	(Oli-spot)			
	05-20 Average of daily water consumption at a water point (PF) m3/day	18	3m3/day or le	ess (Approx.)	
	05-21 Number of House Connection (HC)	ni			<u></u>	
	05-22 Average of daily water consumption of House Connection(HC) m3/day	ni	1.		,	
	05-23 Number of Business Conection (BC)	ni	1.			
	05-24 Type of Business Connection (BC) Factory, School, Gov. office, Hospital					
	05-25 Average of daily water consumption of Business Connection (BC) m3/day 05-26 Other technical specimen	ni	1.			
06	Operation and Maintenace					
	06-01 Organization's name	ni	1.			
1	06-02 Type of organization Regional, Zone, Enterprice					
1	06-03 Number of thechnical staff	ni				
1	06-04 Principal works of technical staff	ni				
1	06-05 Number of the financial staff	ni				
	06-06 Principal works of financial staff	ni				
1	06-07 Categories of water tariff W.Point, House Connection					
	06-08 Water tariff rate	ni				
1	Water point (Public faucet) Birr/L, 20L	ni				
	House connection Birr/m3 Business connection Birr/m3	ni ni				
1	Business connection Birr/m3 06-09 Average monthly income by water tariff Birr/month	ni ni				
	06-10 Procurement of spare parts at Town, Zonal Cap. Reg. Cap					
1	06-10 Principal spare parts at 10wii, Zonai Cap. Reg. Cap Oil filter, Fuel filter, Pipes					
	06-12 Method in case of serious repair by Regional office, Private company					
1	06-13 Principal serious repair with 5-10 years	ni				
1	06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donors					
	06-15 Other technical specimen					

S-19 Goreche

	Data 1.5 Small Town Flome of SN	141 1/0		
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		
	<u> </u>	nil.		
		nil.		
		nil.		
		n11.		
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc		other villages to spring	
	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 on the top of ridge.			
nο	Necessary Institution (Facility, Material)			
57	Refer to Chapter 4 "Table 4.7"			
	кого го спарто т Таше т./			
10	G (W) (I		2021	+
10	Current Water Coverage (%) (by water consumption at faucets)		30%	_
	(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=??%			_1
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	B / B	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	11	5,5	→
	Access is Base course road 16km approx. from Asphalt road at Leku. (23km from Awasa)			
12	Manpower Capability of Water Supply Management by Water Office point)		3	
13	Manpower Capability of water Supply Management by water Office point)		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 tecl	nnology. The	small town is on the gen	ıtle
	slope, however, construction work is not difficult.			
16	Other Donors, NGO's			-
10	nil.			
	III.			
17	Main Edwin Comm	C: 1		+
1 /	Main Ethnic Group	Sidama		
18	Health conditions			
		r, Private clir	nic, Drug store, Health po	ost
	-2 Nearest other facilities from Town km	45		
		Dysentery	150	
		Diarrhea	120	
		Typhoid	60	1
		others	200	_
19			ng, Livestock	+
-/		, 1 411111		+
20	Particular comments :			
٥				
	The distance to the water source, womens and children has become a burden to caeey water.			
				-
	D. I			+
21	Remarks:			
	Ato Philipos Nahome Woreda water supply & sanitation pro-	rocess owner	Mob. 0916027247	
len	o (Town sketchetc.):			
				ž

Data 7.3 Small Town Profile of SNNPRS

S-19 Goreche



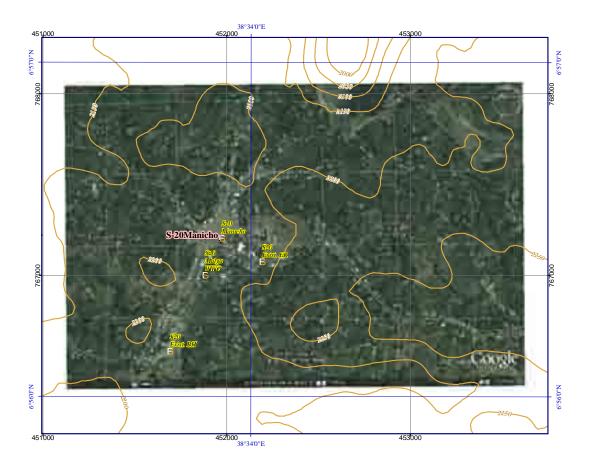
S-20 Manicho

	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	Population			
		by SNNPR	2,115 1,902 4,01	
	Woreda male / female / total be percentage of Town in Woreda	by Census 2007	57,757 56,273 114,030 3.59	
02		Easting / Northig / Alt.	451882 767071 2,16	
	Town Status		Town Administration	
04	Water Source			
	04-01 Water source T 04-02 Well spec. Depth.	Type, No.	Well*1no. GL-110m, 6*5/8", GL-41m, 5.0L/sec.	_
		Pump, Gravity	Pump	
		Гуре, Yield	Motorized pump	
		Гуре, Kva	Commercial Elec.	
		laily hours, time	No operation due to water quality (Iron	
	04-07 Water quality I 04-08 Other technical specimen	ron, Fluorideetc.	Iron	!
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			
		Gregorian calendar)	2004	
		Donor's name	SNNPR	
	05-03 Name of implementation (Project name) 05-04 Intake Type	4	Wujigra town water supply project Well	
	05-04 Intake Type 05-05 Intake No.		lno.	
		Pipe material, length	GIP, 2*1/2", 400m	
	·	Pressure, Gravity	Pressure	
		Disinfection, Ironetc.	nil.	
	<u></u>	n3/day Γype	nil. ER	
		1 уре	Ino.	
	<u></u>	n3	2m3	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	nil.	
		Pressure, Gravity	nil.	
	<u></u>	Pipe material, length Pressure, Gravity	1*1/2" 200m, 1" 56m (Total 256m) Gravity	
	05-17 Structure Type of water point (Public Faucet, PF)		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.	6	
	05-20 Average of daily water consumption at a water point (PF)	m3/day	1.0m3/day	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC)	m3/day	nil.	_
	05-23 Number of Business Conection (BC)	ms/day	nil.	
		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		Wujiga town water supply system	<u> </u>
		onal, Zone, Enterpriceetc.	Community based organization	
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff		Pump operation	
	06-05 Number of the financial staff 06-06 Principal works of financial staff		Water sale	
		int, House Connectionetc.	W. Point	
	06-08 Water tariff rate			
	<u></u>	Birr/L, 20L	0.2birr/20L	
		3irr/m3	nil.	<u> </u>
		Birr/m3 Birr/month	nil. 2,800birr/month	
		Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts Oil f	ilter, Fuel filter, Pipesetc	Pipes&fittings	
	06-12 Method in case of serious repair by Regional of	fice, Private companyetc	Woreda water office	
	06-13 Principal serious repair with 5-10 years		nil.	
	06-14 Fund for above 6-09, 6-10 by Organi 06-15 Other technical specimen	ization, Gov., Donorsetc.	M11.	
	55 13 Galet technical specimen			

S-20 Manicho

)7	Problem of actual town water supply		
	07-01 Technical		
ı	Water source Quantity, Qualityetc.	Quality (Iron)
	Water supply facility Decrepit, leakage, design failureetc	Pipe network	is limited
	07-02 Finalcial		
	Management		
	Rate of water tarrif collection	Not grasped	
Ì	Personnel expenses	Not budget du	e to suspension of operation
	Shortage of budget to execute operation & maintenace	ditto	
- 1	07-03 Other incidential, Special specimen		
l	Increase in population to consume water coming from other towns, villagesetc	Increase popu	ulation from villages
Ì	Change in industry increase factory, Tradingetc.		
	Human conflict Ethnic, Administrativeetc		
ŀ	07-04 Other specimen		
Ì			
8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))	
	Town is on the top of ridge.	<u>′</u>	
ŀ	Town is on the top of mage.		
ŀ			
19	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
ŀ	Refer to Chapter + Table 4.7		
ŀ			
Ω	Current Water Coverage (%) (by water consumption at faucets)	1	2.5%
	(1.0m3*2PF+0m3*0HC+0m3*0BC)=2.0m3/day 2.0m3/20Lpcd.=100persons 100persons/4	1 017nonulatio	
	(1.0m3*2PF+0m3*0HC+0m3*0BC)=2.0m3/day 2.0m3/20Lpcd.=100persons 100persons/4 Current Water Coverage (%) (by data of water source product))	+,017populatic	
		1700/	179%
	((5.0L)*3600sec.*8hrs)=144000L/day 144000/20Lcd=??persos 7200persons/4017population	on=1/9%	
1	Water Potential (A / B / C / D / E)		C
2	A		D / D
.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
ļ	A=Road Width > $6m / B= >3 \sim 6m / C= 1 \sim 3m / D= <1m$		
	Access is Sub Grade road 13km approx. from Asphalt road at Tula. (23km from Awasa)		
3	Manpower Capability of Water Supply Management by Water Office point)		8
Į			
4	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7	I	
5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		
15	New Water Supply Plan		
.5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult.		
.5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's		
.6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's		
.6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's nil.	small town is o	
5 6 .	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's nil.	small town is o	
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	small town is o	
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions	small town is o	on the gentle ridge, however, Private clinic, Drug sto
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	small town is of Sidama Health Cente	on the gentle ridge, however, Private clinic, Drug sto
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s 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	Sidama Health Cente	on the gentle ridge, however, Private clinic, Drug sto
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s 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	Sidama Health Cente 44 Dysentery	on the gentle ridge, however, Private clinic, Drug sto
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s 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	Sidama Health Cente 44 Dysentery Typhoid	on the gentle ridge, however, Private clinic, Drug sto
5 6 7	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s 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	Sidama Health Cente 44 Dysentery Typhoid Mararia	r, Private clinic, Drug sto
5 6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecconsider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others	r, Private clinic, Drug sto 75 43 40 25 50
5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The s 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	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others	r, Private clinic, Drug sto 75 43 40 25
.5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 -3 Main patients of water born diseases persons / year Main economic activities	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others	r, Private clinic, Drug sto 75 43 40 25 50
5 6 7 8 8 9 9	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments:	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others	r, Private clinic, Drug sto 75 43 40 25 50
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5 6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with desig	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5 6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with designecessary to construct new facility which to be included facility expansion.	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5 6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with desig	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with designecessary to construct new facility which to be included facility expansion.	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5 6	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with designecessary to construct new facility which to be included facility expansion. Remarks:	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5 7 8 0	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with design necessary to construct new facility which to be included facility expansion. Remarks: Ato Abrham Abaye Woreda water & Energy Head Mob. 0	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5 6 7 8 9	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with designecessary to construct new facility which to be included facility expansion. Remarks:	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
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5 6 7 8 8	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with design necessary to construct new facility which to be included facility expansion. Remarks: Ato Abrham Abaye Woreda water & Energy Head Mob. 0	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
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.5 .6 .7 .8 .9	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with design necessary to construct new facility which to be included facility expansion. Remarks: Ato Abrham Abaye Woreda water & Energy Head Mob. 0	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock
5 6 7 8 8	New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tec consider of simple water treatmentfacility to reduce Iron for improvement water quality. The sconstruction 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 -3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water supply facility (incl. well operation) has been suspended due to water quality (Iron). The existing water supply facility, which constructed on 2004 is not commensurate with design necessary to construct new facility which to be included facility expansion. Remarks: Ato Abrham Abaye Woreda water & Energy Head Mob. 0	Sidama Health Cente 44 Dysentery Typhoid Mararia Diarrhea others Trade, Farmi	r, Private clinic, Drug sto 75 43 40 25 50 ng, Livestock

S-20 Manicho



S-21 Bokasa

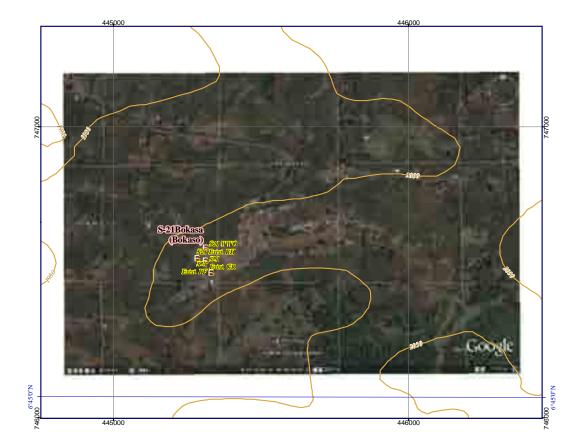
	SNNPR				18 / 52	
Nar	ne of small town		Bokasa (Boka	aso)	S- 21	
Nar	ne of Woreda	:	Wensho		SW- 16	
Nar	ne of Zone	•	Sidama		SZ- 04	
		Profile items			Profile	!
01 Popu	lation					
	Town	male / female / total	by SNNPR	1,044	995 2,0	39
	Woreda	male / female / total	by Census 2007	61,199	59,456 120,6	
	percentage of Town in Wo				1.7	
	Coordination	UTM (Adindan)	Easting / Northig / Alt.	445220	746447 2,0	10
03 Town 04 Wate				Municipality		
	Water source		Type, No.	Well*1no.		
ļ	2 Well spec.	D	epth., Casing Dia., S.W.L, Yield	GL-132m, 6*5/	8", GL-62.1m, 1L/se	c.
	Method of water draw		Pump, Gravity	Pump		
\$	Pump Spec.		Type, Yield	Motorized pum	p (0.38kw)	
	Power source for motorize		Type, Kva	Solar panel		
	Durartion of water draw (C	peration hours)	daily hours, time	Day time	***************************************	
	7 Water quality 3 Other technical specimen		Iron, Fluorideetc.	Good		
04-08	S Other technical specimen					
05 Exist	ing Water Supply Facilities					
	Established year		(Gregorian calendar)	2006		
05-02	2 Financial of implementation		Donor's name	Action Flame, l	Unicef	
	Name of implementation (Project name)			ater supply project	
	1 Intake Type			Well		
05-05	Intake No.			lno.		
	6 Conveyance Type (Water s 7 Power to convey	source ~ Reservoir)	Pipe material, length	GIP, 1*1/4", 18 Pressure	im	
ļ	Water to convey S Water treatment		Pressure, Gravity Disinfection, Ironetc.	nil.		
***************************************	Water treatment capacity		m3/day	nil.		
<u></u>) Water reserver type		Type	GR (Roto tank)		
	Water reserver No.		no.	1no.		
	2 Water reserver Capacity		m3	10m3.		
jan	3 Transmission Type (Boost	er pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	Power to transmit		Pressure, Gravity	nil.		
***************************************	Distribution Type		Pipe material, length	GIP, 1*1/2", 50 Gravity	ım	
	6 Power to distribute 7 Structure Type of water po	int (Public Faucat DE)	Pressure, Gravity RC, Masonry, Pipeetc.			-
	Number of water point (Pu		no.	lno.		
	Number of faucet at a water		no.	4		
		sumption at a water point (P	F) m3/day	2m3/day		
	Number of House Connect			nil.		
***************************************		mption of House Connection(HO	C) m3/day	nil.		
	Number of Business Cone			nil.		
	Type of Business Connecti		ool, Gov. office, Hospitaletc			
	6 Other technical specimen	ption of Business Connection (B	C) m3/day	nil.		
03-20	Other technical specifien					
06 Oper	ation and Maintenace			<u> </u>		+
	Organization's name			Bokasa water si	upply system	
06-02	2 Type of organization]	Regional, Zone, Enterpriceetc	Community bas	sed organization	
····	Number of thechnical staff			nil.		
	Principal works of technical			nil.		
janner manner men	Number of the financial sta			1		
	6 Principal works of financia		7.Point, House Connectionetc	Water sale .W. Point		
	7 Categories of water tariff 8 Water tariff rate	W	.romit, nouse Connectionetc	. W. FUIII		
00-00	Water point (Public faucet)	Birr/L, 20L	0.2birr/20L		
	House connection		Birr/m3	nil.		
	Business connection		Birr/m3	nil.		
	Average monthly income by	y water tariff	Birr/month	640birr/month		
06-10	Procurement of spare parts	at Tov	wn, Zonal Cap. Reg. Capetc.			
	Principal spare parts		Oil filter, Fuel filter, Pipesetc			
	2 Method in case of serious i		al office, Private companyetc			
	3 Principal serious repair wit 4 Fund for above 6-09, 6-10		ranization Cov. Dances	Solar system Water committee	20	
	Other technical specimen	by O	rganization, Gov., Donorsetc	. water committee		
00-1	c. teemnear specimen			†		

S-21 Bokasa

07				
07	Problem of actual town water supply			
	07-01 Technical	XX-4		
	Water source Quantity, Qualityetc. Water supply facility Decrepit, leakage, design failureetc	Water shorta	ge	
	Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial			
	Management	Not grasped		
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	Not grasped		
	Shortage of budget to execute operation & maintenace		get for O&M (Solar sy	stem)
	07-03 Other incidential, Special specimen	Shortage badg	get for Occivi (Bolta sy	stein)
	Increase in population to consume water coming from other towns, villagesetc	coming from	villages	
	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 top of ridge.			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		5%	
	(2m3*1PF+0m3*0HC+0m3*0BC)=2.0m3/day 2.0m3/20Lpcd.= 100persons 100persons / 2	,039 populati	on = 5%	
	Current Water Coverage (%) (by data of water source product))		71%	
	((1.0L)*3600sec.*8hrs)=28800L/day 28800/20Lcd=1440persos 1440persons/2039populati	on=71%		
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	B / B	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m			
	Access is Sub Grade road 16km approx. from Asphalt road at Yirga Alem (39km from Awasa)		
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			
1.5	N. W. G. J. Di			
15	New Water Supply Plan			
	Refer to the Chapter 6	l Th		
	The facility can be designed in an Ethiopian standard, which is not required more advanced tec construction works is required some ingenuity.	illiology. The	sman town is on the	nage,
16	Other Donors, NGO's			
10	Action Flame, Unicef			
	recon rame, oneor			
17	Main Ethnic Group	Sidama		
18	Health conditions			
	-1 Medical facilities in Town	Health Cente	er	
	-2 Nearest other facilities from Town km	15		
	-3 Main patients of water born diseases persons / year	Dysentery	494	
		Typhoid	430	
		Diarrhea	371	
		Malaria	149	
19	Main economic activities	Farming, Tra	nde	
20	Posticular community i			
20	Particular comments:	NG		
	Town population is less than 2,000 persons in accordance with list of the candidate small town	15.		
21	Remarks:			
<u>~1</u>	IVIIIII ()			
Men	no (Town sketchetc.):			
		I	i I	Ł
•				
•				Nonemonia de la compansión de la compans

Data 7.3 Small Town Profile of SNNPRS

S-21 Bokasa



S-22 Chuko

JICA

Data 7.3 Small Town Profile of SNNPRS

	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 / total Woreda male / female / total percentage of Town in Woreda	by SNNPR town list Feb.201 by Census 2007	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	T N-	Well*3nos.	
	04-01 Water source 04-02 Well spec. Dep	Type, No. th., 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	07:00-12:00, 15:00-18:00 (8hrs/day)	
	04-07 Water quality	Iron, Fluorideetc.	On spec.(ETH Standard &WHO)	
	04-08 Other technical specimen		nil.	
05	Existing Water Supply Facilities			-
US	05-01 Established year	(Gregorian calendar)	1981	ļ
	05-02 Financial of implementation	Donor's name	SNNPRS	l
	05-03 Name of implementation (Project name)		Chuko water supply satelite	l
	05-04 Intake Type		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 No. 05-12 Water reserver Capacity	m3	GR100m3*1no., ER8m3*2nos.	
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Reservoir)	Pipe material, length	- CK100IIIS 1IIO., EKOIIIS 2IIOS.	
	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, PF)	RC, Masonry, Pipeetc.		
	05-18 Number of water point (Public Faucet, PF)	no.	17	
	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	1m3/day or less 980 (Avr. 5psn./house)	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC)	m3/day	2m3/day (67Lpcd.)	!
	05-23 Number of Business Conection (BC)	III3/day	13 (07Lpcd.)	<u> </u>
		ol Gov office Hospital etc	School*6, Gov.*6, Health center*1	ļ
	05-25 Average of daily water consumption of Business Connection (BC)	m3/day	8m3/day	
	05-26 Other technical specimen		Drawing was missied. Hand schetch only.	
	-			
06	Operation and Maintenace			
	06-01 Organization's name		Town water supply service	ļ
	06-02 Type of organization Re	gional, 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		Operation, Maintenance	
	06-06 Principal works of financial staff		Water meter read, Bill	<u> </u>
		Point, House Connectionetc.		
	06-08 Water tariff rate			
	Water point (Public faucet)	Birr/L, 20L	0.2birr/25L see below memo	<u> </u>
	House connection	Birr/m3	3.5birr/m3 see below memo	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	19,000bir/month	<u> </u>
Ì	06-10 Procurement of spare parts at Town		Dila, Wondo, Awasa, Addis Ababa	
			Water meter, Pipe&Fitting, Filter of GI	
		office, Private companyetc	SNNPR ER leakage, GE broken, Elec. Transfomer broken	ļ
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by Org;	anization, Gov., Donorsetc.		
	06-15 Other technical specimen	amzation, Gov., Donoisetc.	Existing facility is not able to cover	l
Ì	55 12 Suite teenment specimen		current water demand (Request to	
Ь—				L

S-22 Chuko

07	Problem of actual town water supply				ļ
	07-01 Technical				
	Water source Quantity, Qualityetc.	No answer			
	Water supply facility Decrepit, leakage, design failureetc	see below n	nemo		
	07-02 Finalcial	***************************************		***************************************	
	Management	see below m	nemo		
	Rate of water tarrif collection	No answer	icino		
					ļ
	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	Yes			
	Change in industry increase factory, Tradingetc		ittle		
			ittie		
	Human conflict Ethnic, Administrativeetc				
	07-04 Other specimen	nil.	•	***************************************	
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town: Flat area				
20	The state of the Market N				
)9	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
					<u> </u>
10	Current Water Coverage (%) (by water consumption at faucets)		11	13%	!
	(1m3*17PF+2m3*980HC)=1,977m3/day 1,977m3/20Lpcd.= 98,850 persons 98,850 person	ne / 8 991 po			i i
		113 / 0,001 PO	ританон = 1, 		
	Current Water Coverage (%) (by data of water source product))	3321		%	ļ
	((??L+??L+??L)*3600sec.*8hrs)=??day ??/20Lcd=??persos ??persons/8881population=	!'!%			<u> </u>
1	Water Potential (A / B / C / D / E)			В	<u> </u>
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	А	. / A	
12	Town along the Asphalt road $A=Road Width > 6m /B= >3 -6m / C= 1 -3m / D= <1m$.,	
		., ., ., .,			
	Access road is Asphalt road 24km from Dila. * Refer to Chapter 5 "Table 5-7: Categories of a	accessibility"			
13	Manpower Capability of Water Supply Management by Water Office point)			19	
1.4	Dgree of urgency (A / B / C / D / E)		1		
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, which is not required more advanced tec	hnology The	e small town	is on the	
	generally flat terrains, construction work is not difficult.	imology. The	e sman town	is on the	
1.0					
16	Other Donors, NGO's			•	
					ļ
17	Main Ethnic Group	Sidama, Silt	te		
19	Health conditions				\vdash
10		TT 1.1 ~	D: -		ļ
	-1 Medical facilities in Town		er, Private cl	inic	
	-2 Nearest other facilities from Town km	27	7		<u>. </u>
	-3 Main patients of water born diseases persons / year	Diarrhea	520		ľ
	,	Dysentery	433		i
		Malaria	415		 -
		Typhoid	210		ļ
		Cholera	173		
		others	325		L
19	Main economic activities	Trade, Farm	ing	· <u> </u>	1
					Ĭ
20	Particular comments :				T
_0	Credibility of above water coverage is considered low. This facility has 3 wells which are under	r operation a	nd in good o	norating order	
	Circulating of above water coverage is considered ow. This facility has 5 wells which are unde	a operation a	ma m good o	peraning order	
					ļ
21	Remarks:	_	_	_	1
					
					
1.	(Town shotsh star)		1	1	⊢
ien	no (Town sketchetc.):			and the same of th	
	04-02 Well spec.	•	•]
	Well No.1; Establish on 1981 / Depth GL-114m / Casing dia. 6" / SWL GL-???m / ???	L/sec. with	Stand-by Ger	nerator 45kva	
	Well No.2; Establish on 1998 / Depth GL-114m / Casing dia. 6" / SWL GL-???m / ???				
			Stanu-by Ge	nerator 43KVa	ļ
	Well No.3; Establish on 2002 / Depth GL-118m / Casing dia. 6" / SWL GL-???m / ???	L/sec.			<u></u>
	05-06 Conveyance Type (Water source ~ Reservoir)				
	05-06 Conveyance Type (Water source ~ Reservoir) Well No.1 to GR GIP 2" L=309m		***************************************		

Well No.2 to ER GIP 3" L=1,250m

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

05-15 Distribution Type

JICA KOKUSAI KOGYO CO. LTD.

Data 7.3 Small Town Profile of SNNPRS

S-22 Chuko

06-08 Water Tariff (House and Business Connection)

 $0 \sim 5 \text{ m3} = 3.5 \text{birr/m3} \qquad \qquad \text{Water meter lease ; dia. } 1/2\text{"} = 3.0 \text{birr/month} \qquad \text{dia. } 3/4\text{"} = 4.0 \text{birr/month}$

 $6 \sim 30\text{m}3 = 5.0\text{birr/m}3$ dia. 1"= 5.0birr/month

07-01 Technical

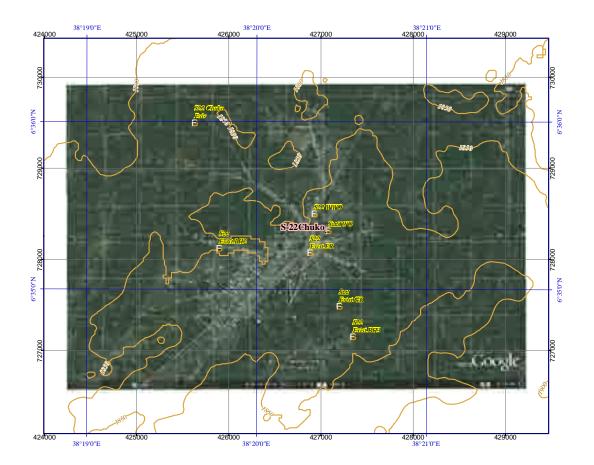
Deterioration of facility (Leakage, broken), Lack of Design (Pipe network), Interruption & unstable voltage of Commercial Ele

07-01 Financial

Fuel for Generator from other towns, Missing documents and drawings

Data 7.3 Small Town Profile of SNNPRS

S-22 Chuko



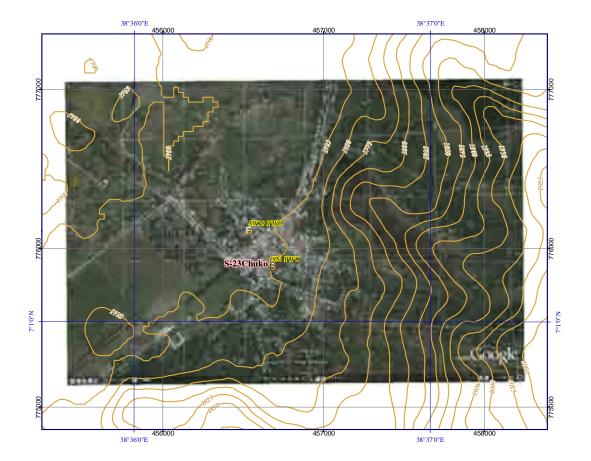
S-23 Chuko

	SNNPR		20 / 52	
	Name of small town :	Chuko	S- 23	
	Name of Woreda :	Wendo Gene	et SW- 18	1
	Name of Zone :	Sidama	SZ- 04	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	7,936 6,690 14,626	
	Woreda male / female / total	by Census 2007	78,365 74,918 153,283	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	9.5% 456586 775754 1,718	
	Town Status	Easting / Horting / Tit.	Municipality 1,713	
04	Water Source			
	04-01 Water source	Type, No.	Spring	
	04-02 Well spec. Dep 04-03 Method of water draw	th., Casing Dia., S.W.L, Yield 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	24hors.	
	04-07 Water quality 04-08 Other technical specimen	Iron, Fluorideetc.	Good	
	04-00 Other rechnical specifien			
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1986	
	05-02 Financial of implementation	Donor's name	SNNPR	
	05-03 Name of implementation (Project name) 05-04 Intake Type		Kella kebele abaya spring Spring	
	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	Gravity	
	05-08 Water treatment	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity 05-10 Water reserver type	m3/day Type	nil. Gravity	
	05-10 Water reserver No.	no.	Ino.	
	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. GIP, 2*1/2"*1,400m, 2"*5,387m	
	05-16 Power to distribute	Pressure, Gravity	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.	12nos.	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6nos. 2.0m3/day	
	05-20 Average of daily water consumption at a water point (PF) 05-21 Number of House Connection (HC)	m3/day	482	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.266m3/day	
	05-23 Number of Business Conection (BC)		29	
		ol, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection (BC) 05-26 Other technical specimen	m3/day	0.6m3/day	
	55 25 Other technical specimen			
	Operation and Maintenace			
	06-01 Organization's name	. 17 5	Wondo genet town water supply office	
	06-02 Type of organization Re 06-03 Number of thechnical staff	gional, Zone, Enterpriceetc.	Zone	
	06-04 Principal works of technical staff		Plumbing, maitenance	
	06-05 Number of the financial staff		5	
	06-06 Principal works of financial staff		Water meter read, Bill	
	<u> </u>	Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate Water point (Public faucet)	Birr/L, 20L	0.15birr/20L	
	House connection	Birr/m3	see below memo	†
	Business connection	Birr/m3	ditto	<u> </u>
	06-09 Average monthly income by water tariff	Birr/month	8,800birr/month	
		, Zonal Cap. Reg. Capetc.		ļ
		l filter, Fuel filter, Pipesetc office, Private companyetc		ļ
	06-12 Method in case of serious repair by Regional 06-13 Principal serious repair with 5-10 years	onice, i nvate companyetc	Pipe line was dismantled by Road construction	
		nnization, Gov., Donorsetc.		
	06-15 Other technical specimen			ļ
I				1

S-23 Chuko

	Problem of actual town water supply			
	07-01 Technical			
	Water source	Quantity, Qualityetc.	Contamination	n of water source by resident
	Water supply facility	Decrepit, leakage, design failuree	tc.Expantion pi	ipe line without design
	07-02 Finalcial			
	Management		Good	
	Rate of water tarrif collection		Good	
	Personnel expenses		Good	
	Shortage of budget to execute operation & r	naintenace	Shortage	
	07-03 Other incidential, Special specimen			
	Increase in population to consume water	coming from other towns, villagese	tc Coming fron	n other towns & villagers
	Change in industry	increase factory, Tradinget		
	Human conflict	Ethnic, Administrativee		
	07-04 Other specimen			
	or or other specimen			
18	Geographical condition (Slope on moun	ntaion, bottom of valley, Top of ridgeetc	•)	
,,,	Town is on the flat area & gentle slope	nation, bottom of valley, 10p of flageex	.,	
	Town is on the flat area & gentle slope			
20	Necessary Institution (Facility, Material)			
))	Spring source shall be capped by rehabilitation by	water office		
	Refer to Chapter 4 "Table 4.7"	water office.		
	Kerer to Chapter 4 Table 4.7			
10	Current Water Coverage (9/) (by water as	ion at faugats)		500/
ıυ	Current Water Coverage (%) (by water consumption of the consumption of		9500	58%
	(2m3*12PF+0.266m3*482HC+0.6m3*29BC)=176		6300persons /	,
	Current Water Coverage (%) (by data of water so			?? %
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??per	sos ???persons/14626population=??%		T
11	Water Potential (A / B / C / D / E)			С
				T
12		se Course/C=Sub Grade/D=Only Dry Season/E=N	ot Approached	B / A
		$h > 6m /B = >3\sim6m / C = 1\sim3m / D = <1m$		
	Access road is Asphalt road & Base course 24km		5-7: Categories	of accessibility"
13	Manpower Capability of Water Supply Manageme	ent by Water Office point)		11
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
	^			
15	New Water Supply Plan			
15	The facility can be designed in an Ethiopian standa	ard, which is not required more advanced to	chnology The	re are some risks of
	troubles, conflicts with neighborhoods for develop			
	work is not difficult.	of water sources. The small town is	on the generan.	y mai terrams, construction
16	i .			
16	Other Donors, NGO's			
16	i .			
	Other Donors, NGO's Refer to the Chapter 6		C: J	
	Other Donors, NGO's		Sidama	
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group		Sidama	
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions			
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town		Private clinic	c, Drug store, Health post
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	Private clinic	
17	Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	km persons / year	Private clinic 26 Mararia	4,215
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		Private clinio 26 Mararia Cholera	4,215 264
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		Private clinic 26 Mararia	4,215
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		Private clinio 26 Mararia Cholera	4,215 264
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		Private clinio 26 Mararia Cholera Typhoid others	4,215 264 166
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 -3 Main patients of water born diseases		Private clinio 26 Mararia Cholera Typhoid others	4,215 264 166 3,470
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 -3 Main patients of water born diseases		Private clinio 26 Mararia Cholera Typhoid others	4,215 264 166 3,470
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 -3 Main patients of water born diseases Main economic activities Particular comments:	persons / year	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock
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 -3 Main patients of water born diseases Main economic activities Particular comments: Ethnic conflict has been appeared. Town populatio	persons / year n is more than 14,000 persons in accordan	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock
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 -3 Main patients of water born diseases Main economic activities Particular comments: Ethnic conflict has been appeared. Town populatio Water source (spring) has been contaminating by p	persons / year n is more than 14,000 persons in accordan people.	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p	persons / year n is more than 14,000 persons in accordan people.	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock
17 18 19 20	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 populatio Water source (spring) has been contaminating by p	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p	persons / year n is more than 14,000 persons in accordan people.	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
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17 18 19 20	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 population Water source (spring) has been contaminating by I Pipe line has been expanded every year with out p Remarks:	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by IPipe line has been expanded every year with out p Remarks:	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by Pipe line has been expanded every year with out p Remarks: no (Town sketchetc.):	persons / year on is more than 14,000 persons in accordant people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo G	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by Pipe line has been expanded every year with out p Remarks: no (Town sketchetc.):	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
17 18 19 20	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
9 0	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.
7 8 0	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 populatio Water source (spring) has been contaminating by pipe line has been expanded every year with out p Remarks: 10 (Town sketchetc.): 10 06-08 Water tariff rate (Buisiness Connection) 0~5 m3 =1.25birr/m3 11~30 m3 =2	persons / year on is more than 14,000 persons in accordan people. lan for Neighboring villages & towns like Mr. Kassu Haile Wondo Go	Private clinic 26 Mararia Cholera Typhoid others Trade, Farm	4,215 264 166 3,470 ing, Livestock the candidate small towns.

S-23 Chuko



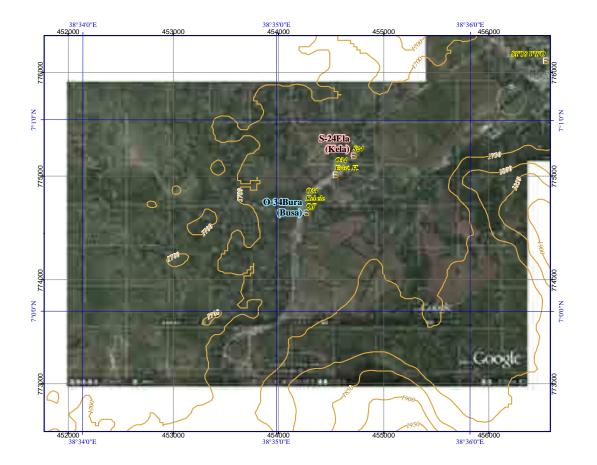
S-24 Ela(Kela)

	南部州		A		21 /	-	
	小都市名		Eka (Kela)		S- 2		ļ
	ワレダ名	:	Wendo Gen	et		ransmi	1
	ゾーン名	:	Sidama		SZ- 0)4	
		Profile items			Profile		!
01	Population			• 000			
	Town Woreda	male / female / tota male / female / tota	3	2,803 78,365	2,456 74,918	5,259 153,283	
	percentage of Tov		by Celisus 2007	78,303	74,916	3.4%	
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	454618	775068	1,700	
	Town Status			Municipality			
	Water Source			Spring*1no.			
	04-01 Water source 04-02 Well spec.		Type, No. Depth., Casing Dia., S.W.L	6 or more L/sec	c annroy		
	04-03 Method of water	draw	Pump, Gravity	Gravity	с. арргох.		
	04-04 Pump Spec.		Type, Yield	nil.			
	04-05 Power source for		Type, Kva	nil.			
		er draw (Operation hours)	daily hours, time	24hrs.			
	04-07 Water quality 04-08 Other technical sp		Iron, Fluorideetc.	Good	(3	l'1	
	04-08 Other technical sp	pecimen		3 Outlet pipes a	are not use (c	nscnarging)	!
05	Existing Water Supply	Facilities					
	05-01 Established year		(Gregorian calendar)	1986 / 2007			
	05-02 Financial of imple		Donor's name	UNICEF / IRC	(Expansion)		
	05-03 Name of impleme	entation (Project name)		Kela water pro	ject		
	05-04 Intake Type			Spring			
	05-05 Intake No.	e (Water source ~ Reservoir)	Dina material langth	1 GIP, 2*1/2", ??			!
	05-06 Conveyance Type 05-07 Power to convey	(water source ~ Reservoir)	Pipe material, length Pressure, Gravity	Gravity	? ?m		<u> </u>
	05-08 Water treatment	**************************************	Disinfection, Ironetc.	nil.	***************************************		
	05-09 Water treatment of	capacity	m3/day	nil.			
	05-10 Water reserver ty	pe	Туре	GR			
	05-11 Water reserver N		no.	GR*1nos.			
	05-12 Water reserver Ca		m3	50m3			
	05-13 Transmission Typ 05-14 Power to transmit	pe (Booster pump Stn. ~ Reserv	oir) Pipe material, length Pressure, Gravity	-			
	05-14 Fower to transfill		Pipe material, length	GIP 2"*???m / PV	/C. 2"*682m / o	ther 20km ?	!
	05-16 Power to distribu		Pressure, Gravity	Gravity	02 00211170	mer zokin .	•
		f water point (Public Faucet, PF					
		point (Public Faucet, PF)	no.	11			
		t at a water point (Public Fauce	<u> </u>	6			
		water consumption at a water p	oint (PF) m3/day	3m3/day			
	05-21 Number of House	e Connection (HC) rater consumption of House Connec	etion(HC) m3/day	342 0.5m3/day			
	05-22 Average of daily w		ms/day	nil.			
	05-24 Type of Business	Connection (BC) Factor	ry, School, Gov. office, Hospitaletc				
	05-25 Average of daily wa	nter consumption of Business Conne	ction (BC) m3/day	nil.			
	05-26 Other technical sp	pecimen		nil.			
0.5	0 2 1362						
	Operation and Maintena 06-01 Organization's na			Wondo Genet Cho	uko Water Supp	ly Enterprise	
	06-02 Type of organization		Regional, Zone, Enterpriceetc		ako water bupp	Ty Enterprise	
	06-03 Number of thech		Regional, Zono, Enterpriceetc	4			
	06-04 Principal works of			Maintenance, F	Pipe repair		
	06-05 Number of the fir	nancial staff		6			
	06-06 Principal works of			Water fee corro	ction, Bill	etc.	
	06-07 Categories of wat	er tariff	W.Point, House Connectionetc	-			
	0 < 00 117	lic faucat)	Birr/L, 20L	Free			
	06-08 Water tariff rate Water point (Pub		Birr/m3	see below men	10		
	Water point (Pub				-		
		n	Birr/m3	nil			
	Water point (Pub House connection Business connect 06-09 Average monthly	n ion income by water tariff	Birr/m3 Birr/month	8,000birr/mont			
	Water point (Pub House connection Business connect 06-09 Average monthly 06-10 Procurement of s	n ion income by water tariff pare parts	Birr/m3 Birr/month at Town, Zonal Cap. Reg. Cap etc	8,000birr/mont . Awasa, Sheshe	mane		
	Water point (Pub House connection Business connect 06-09 Average monthly 06-10 Procurement of sp 06-11 Principal spare pa	n ion income by water tariff pare parts arts	Birr/m3 Birr/month at Town, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipeset	8,000birr/mont Awasa, Sheshe Water meter, P	mane ripe & fittings	3	
	Water point (Pub House connection Business connect 06-09 Average monthly 06-10 Procurement of st 06-11 Principal spare pa 06-12 Method in case of	n ion income by water tariff pare parts arts f serious repair by	Birr/m3 Birr/month at Town, Zonal Cap. Reg. Cap etc	8,000birr/mont Awasa, Sheshe Water meter, P Zone, Regional	mane ripe & fittings	3	
	Water point (Pub House connection Business connect 06-09 Average monthly 06-10 Procurement of s 06-11 Principal spare pa 06-12 Method in case o 06-13 Principal serious	ion income by water tariff pare parts arts f serious repair by repair with 5-10 years	Birr/m3 Birr/month at Town, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipesetc Regional office, Private companyetc	8,000birr/mont Awasa, Sheshe Water meter, P Zone, Regional Pipe leakage	emane Pipe & fittings I	3	
	Water point (Pub House connection Business connect 06-09 Average monthly 06-10 Procurement of st 06-11 Principal spare pa 06-12 Method in case of	n ion income by water tariff pare parts arts f serious repair by repair with 5-10 years -09, 6-10	Birr/m3 Birr/month at Town, Zonal Cap. Reg. Capetc Oil filter, Fuel filter, Pipeset	8,000birr/mont Awasa, Sheshe Water meter, P Zone, Regional Pipe leakage	emane Pipe & fittings I	S	

S-24 Ela(Kela)

		INFINS		
	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	No answer		
	Water supply facility Decrepit, leakage, design failureetc	No answer		
	07-02 Finalcial			
	Management	No answer		1
	<u> </u>	No answer		
		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	No answer		
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	Ethnic conflic	et	!
	07-04 Other specimen			
	•			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Town is slope of mountain and flat area along road			
	10 Will both of Modification and Modification			_
00	M. T. C. C. T. W. M. C. D.			
09	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"			
10	Current Water Coverage (%) (by water consumption at faucets)	Т	194%	!
	(3m3*11PF+0.5m3*342HC)=204m3/day 204m3/20Lpcd.= 10,200 persons 10,200 persons	/ 5,259 popula	ation = 194%	1
	Current Water Coverage (%) (by data of water source product))		493%	
	((6L)*3600sec.*24hrs)=518400L/day 518400/20Lcd=25920persos 25920persons/5259po	pulation=493		
11	Water Potential (A / B / C / D / E)		В	1
11	mater roteina (A/B/C/D/E)	<u>L</u>	ь	-
10	A TITLE (A / D / C / D / D) A Assisted Description of Costs Costs D Costs Description of Date Description of De	A	D / A	
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 > $6m / B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	Town along the under construction road. Distance from asphalt paved road of Awasa is 15km	n approx.		
13	Manpower Capability of Water Supply Management by Water Office point)		13	
	Enterprise staff has not any of document, DWGS for existing water supply facility.			
1.4	Dgree of urgency (A/B/C/D/E)	1		
		<u>_</u>		
	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			
	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.			
16	Other Donors, NGO's			
16	Other Donors, NGO's nil.			
16				
	nil.	Sidama		
	nil.	Sidama		
17	nil. Main Ethnic Group	Sidama		
17	nil. Main Ethnic Group Health conditions			
17	nil. Main Ethnic Group Health conditions		r, Private clinic, Drug sto	ore
17	nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center		ore
17	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	Health Center 70 Mararia	1,523	ore
17	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	Health Center		ore
17	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	Health Center 70 Mararia	1,523	pre
17	nil. 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	Health Center 70 Mararia Typhoid	1,523 196	ore
17	nil. 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	Health Center 70 Mararia Typhoid Dysentery others	1,523 196 10 3,470	ore
17	nil. 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	Health Center 70 Mararia Typhoid Dysentery	1,523 196 10 3,470	pore
17 18	nil. 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	Health Center 70 Mararia Typhoid Dysentery others	1,523 196 10 3,470	pore
17 18	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 Particular comments:	Health Center 70 Mararia Typhoid Dysentery others	1,523 196 10 3,470	
17 18	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 Particular comments: Water intake is not corrected spring water efficiently.	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	1,523 196 10 3,470	ore !
17 18 19	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 Particular comments: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	1,523 196 10 3,470	
17 18	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 Particular comments: Water intake is not corrected spring water efficiently.	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	1,523 196 10 3,470	
17 18 19 20	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 Particular comments: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade	1,523 196 10 3,470	
17 18 19 20	nil. 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: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so Staff of the enterprise are not grasp their water supply facility and have not any technica Remarks:	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade Durce)	1,523 196 10 3,470	!
17 18 19 20	nil. 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: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so Staff of the enterprise are not grasp their water supply facility and have not any technica Remarks: The existing water source (spring) has been convayed by intake facility and conveyance pipes	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade ource) ald documents (which is cons	1,523 196 10 3,470 DWG etc.)	!
17 18 19 20	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 Main economic activities Particular comments: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so Staff of the enterprise are not grasp their water supply facility and have not any technica Remarks: The existing water source (spring) has been convayed by intake facility and conveyance pipes amount of spring and rest of spring is discharged into the stream. Hence, the capacity of spring	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade ource) ald documents (which is cons	1,523 196 10 3,470 DWG etc.)	!
17 18 19 20	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 Main economic activities Particular comments: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so Staff of the enterprise are not grasp their water supply facility and have not any technica Remarks: The existing water source (spring) has been convayed by intake facility and conveyance pipes amount of spring and rest of spring is discharged into the stream. Hence, the capacity of spring small town is a priority of tranquility for public safety.	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade ource) ald documents (which is cons	1,523 196 10 3,470 DWG etc.)	!
17 18 19 20	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 Main economic activities Particular comments: Water intake is not corrected spring water efficiently. Over half of spring source is descharged 2 drain pipes and 1 outlet pipe. (Loose water so Staff of the enterprise are not grasp their water supply facility and have not any technica Remarks: The existing water source (spring) has been convayed by intake facility and conveyance pipes amount of spring and rest of spring is discharged into the stream. Hence, the capacity of spring	Health Center 70 Mararia Typhoid Dysentery others Faring, Trade ource) ald documents (which is cons	1,523 196 10 3,470 DWG etc.)	!
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S-24 Ela(Kela)



S-27 Fiseha Genet

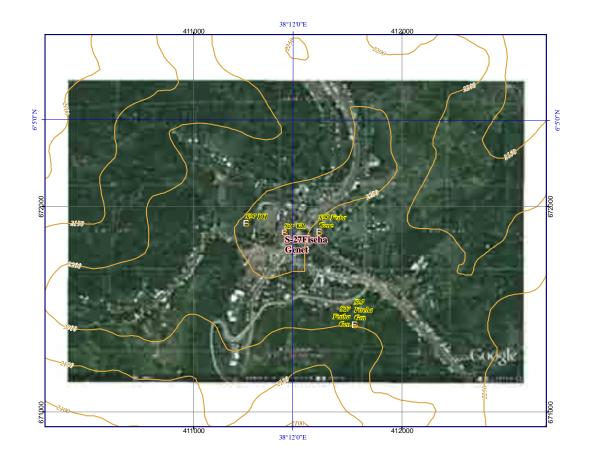
	SNNPR				/ 52
	Name of small town	:	Fiseha Gen		
	Name of Woreda		Kochore	SW-	20
	Name of Zone	:	Gedeo	SZ-	05
		Profile items		Profile	
01	Population				
	Town	male / female / total	by SNNPR	2,107 2,082	4,189
	Woreda	male / female / total	by Census 2007	65,235 66,183	131,418
	percentage of Town in Wo			444045 454500	3.2%
	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	411345 671729	2,202
	Town Status Water Source			Municipality	
	04-01 Water source		Type, No.	Well *1no.	
	04-02 Well spec.		Depth., Casing Dia., S.W.L, Yiel		, 1.73L/sec.
	04-03 Method of water draw		Pump, Gravity	Pump	
	04-04 Pump Spec.		Type, Yield	Mono Pump (Euroflo Pum	p)
	04-05 Power source for motorize		Type, Kva	2 cylider diesel engine	
	04-06 Durartion of water draw (0	Operation hours)	daily hours, time	06:00~10:00 (4hrs./day)	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Good	
	04-00 Other recimical specimen				
05	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1981	
	05-02 Financial of implementation	n	Donor's name	Canadian International Develop	ment (CIDA)
	05-03 Name of implementation (Project name)		Fiseha Genet Water Supply	y Project
	05-04 Intake Type			Well	
	05-05 Intake No.			lno.	
	05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	GIP, 2", 200m Pressure	
	05-07 Power to convey 05-08 Water treatment		Pressure, Gravity Disinfection, Ironetc.	nil.	
	05-08 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	25m3	
	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	See below memo	
	05-16 Power to distribute 05-17 Structure Type of water po	vint (Public Foucat DE)	Pressure, Gravity RC, Masonry, Pipeetc	Gravity	
	05-17 Structure Type of water point (Pu		no.	6	
	05-19 Number of faucet at a water			6FC*3PF, 4FC*3PF	
	05-20 Average of daily water con			3.3m3/day	
	05-21 Number of House Connec			61	
	05-22 Average of daily water consu		HC) m3/day	0.133m3/day	
	05-23 Number of Business Cone			nil.	
	05-24 Type of Business Connect		chool, Gov. office, Hospitaletc		
	05-25 Average of daily water consun 05-26 Other technical specimen	ipuon of business Connection	(BC) m3/day	nil.	
	05-20 Omer technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name			Water supply office	
	06-02 Type of organization		Regional, Zone, Enterpriceetc	Community based organiza	ation
	06-03 Number of thechnical staff	· · · · · · · · · · · · · · · · · · ·		2	
	06-04 Principal works of technic			Pump operation, Plumbing	
	06-05 Number of the financial st			Water mater good Bill	
	06-06 Principal works of financian of the control o	ai stali	W.Point, House Connectionetc	Water meter read, Bill c.W. Point, House connection	n
	06-07 Categories of water tariff 06-08 Water tariff rate		17.1 OIIII, 1100SE COMBECTIONER	1 Omit, 110use connectio	11
	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		Birr/month	4,800birr/month	
	06-10 Procurement of spare parts	at T	Town, Zonal Cap. Reg. Capetc		
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipeset		fittings
	06-12 Method in case of serious		onal office, Private companyet		
	06-13 Principal serious repair wi			Engine broken Woreda, Water supply offi	20
	06 14 Fund for chave 6 00 6 10	L			
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by	Organization, Gov., Donorsetc	woreda, water suppry orn	ce

S-27 Fiseha Genet

07	Problem of actual town water supply				
,	07-01 Technical				
		ity, Qualityetc.	Water shorta	ge	
	Water supply facility Decrepit, leakag	ge, design failureetc			
	07-02 Finalcial	£			
	Management		Not grasp		
	Rate of water tarrif collection		good		
	Personnel expenses		low		
	Shortage of budget to execute operation & maintenace			get for O&M	
	07-03 Other incidential, Special specimen		8	8	· · · · · · · · · · · · · · · · · · ·
		r towns, villagesetc	Coming from	villagers	-
		factory, Tradingetc.			
		, Administrativeetc			
	07-04 Other specimen	,			
	or or other specimen				
)8	Geographical condition (Slope on mountaion, bottom of valle	ev. Top of ridgeetc.))		
	Town is on the top of ridge	y/ L			

)9	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
0	Current Water Coverage (%) (by water consumption at faucets)			33%	
	(3.3m3*6PF+0.133m3*61HC+0m3*0BC)=27.9m3/day 27.9m3/20Lpc	ed.= 1.395nersons 1.3	395persons / 4		33%
	Current Water Coverage (%) (by data of water source product))	1,0.0persons 1,0	- , oporoono / 4	59%	10
	((1.73L)*3600sec.*8hrs)=49824L/day 49824/20Lcd=2491persos 249	1 nersons/4189nonular	tion=59%	37/0	
1	Water Potential $(A/B/C/D/E)$, 1 po 130113/ -1 102 populai	1011-57/0	С	+
1	water Fotential (A/B/C/D/E)				
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/I)=Only Dry Season/F-Not	Annroached	A/B	+
	Accessibility $(A / B / C / D / E)$ A-Asplian B-Base Course C-sub Grade I		pproacticu	A / D	
	A=Road Width > oin /B= >5~oin / C Access road from Yigra Chafe is asphalt paved. (45km from Dila) * Ret		5-7: Catagor	ies of accessibility	"
2	Manpower Capability of Water Supply Management by Water Office		3-7. Categor	16	
13	Manpower Capability of water Supply Management by water Office)OIIII)		10	
	D C (A/D/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	red more advanced tec	hnology. The	small town is on t	he gentle
	Refer to Chapter 5 & 7 New Water Supply Plan	red more advanced tec	hnology. The	small town is on t	he gentle
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, however, construction work is not difficult.	red more advanced tec	hnology. The	small town is on t	he gentle
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, however, construction work is not difficult. Other Donors, NGO's	red more advanced tec	hnology. The	small town is on t	he gentle
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, however, construction work is not difficult.	red more advanced tec	hnology. The	small town is on t	he gentle
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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 not requiridge, however, construction work is not difficult. Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	red more advanced tec	Gedeo Health Cente	r, Drug store	he gentle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, 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		Gedeo Health Cente	r, Drug store	he gentl
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16 17	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, 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		Gedeo Health Cente 45 Dysentery Typhoid Cholera	r, Drug store 209 50 50 280	he gentle
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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 standard, whichis not requiridge, 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 person Main economic activities Particular comments: Remarks: Mr. Es Mr. Ta 10 (Town sketchetc.):	s / year shetu Obse Water Commirat Tsegaye Operate	Gedeo Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store 209 50 50 280 ng	he gentle
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, 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 person Main economic activities Particular comments: Remarks: Mr. Es Mr. Ta 10 (Town sketchetc.):	s / year shetu Obse Water Commirat Tsegaye Operate	Gedeo Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store 209 50 50 280 ng	he gentle
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, 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 person Main economic activities Particular comments: Remarks: Mr. Es Mr. Ta 10 (Town sketchetc.):	s / year shetu Obse Water Commirat Tsegaye Operate	Gedeo Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store 209 50 50 280 ng	he gentle
.5 .6 .7 .8 .9 .9 .21	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not requiridge, 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 person Main economic activities Particular comments: Remarks: Mr. Es Mr. Ta 10 (Town sketchetc.):	s / year shetu Obse Water Commirat Tsegaye Operate	Gedeo Health Cente 45 Dysentery Typhoid Cholera others Trade, Farmi	r, Drug store 209 50 50 280 ng	he gentle

S-27 Fiseha Genet



S-28 Gedeb

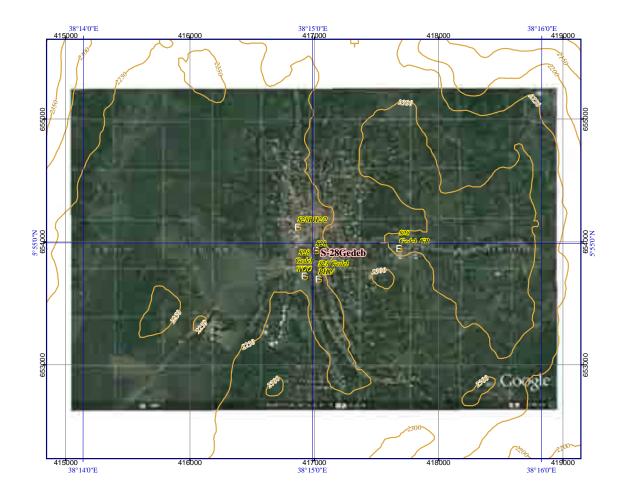
-	SNNPR				23 / 52
	Name of small town		Gedeb		S- 28
	Name of Woreda	:	Gedeb		SW- 21
- 1	Name of Zone	:	Gedeo		SZ- 05
		Profile items		Pro	ofile
1 F	Population				
	Town	male / female / total	by SNNPR	5,160	4,861 10,02
	Woreda	male / female / total	by Census 2007	73,480	73,252 146,73
2 7	percentage of Town in Word Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	416921	6.89 653784 2,25
_	Fown Status	C TW (Admidan)	Lasting / Norting / 7tit.	Woreda Capital	033704 2,23
_	Water Source				
ķ	04-01 Water source		Type, No.	Well*2nos.	
home	04-02 Well spec.		Depth., Casing Dia., S.W.L	see below memo	
****	04-03 Methor of water draw		Pump, Gravity	Pump	
	04-04 Pump Spec. 04-05 Power source		Type, Yield Type, Kva	Motorized pump Commercial Elec. & St	tand by Concretor
·	14-05 Power source 14-06 Durartion of water draw		daily hours, time	No.1 06:00~14:00, 16:0	
-	04-07 Water quality	***************************************	Iron, Fluorideetc.	Good	30 -10.00 (10III3./day)
ļ	04-08 Other technical specimen		1011, 11401140 111010	nil.	
Г					
	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	2010	
·	05-02 Financial of implementation		Donor's name	LIG, World Bank	
	05-03 Name of implementation			Gedeb water project Well	
	05-04 Intake Type 05-05 Intake No.			2	
	05-06 Conveyance Type (Water so	nurce ~ Reservoir)	Pipe material, length	GIP	
	05-07 Power to convey	ource - Reservoir)	Pressure, Gravity	Pressure	
jenne	05-08 Water treatment		Disinfection, Ironetc.	nil.	
سا	05-09 Water treatment capacity		m3/day	nil.	
****	05-10 Water reserver type	100000000000000000000000000000000000000	Type	GR, ER (not use)	
	5-11 Water reserver No.		no.	GR*1no., ER*1no.(not	
	5-12 Water reserver Capacity		m3	GR100m3, ER4m3 (no	t use)
	05-13 Transmission Type (Booster	pump Stn. ~ Reservoir)	Pipe material, length	-	
-	05-14 Power to transmit 05-15 Distribution Type		Pressure, Gravity Pipe material, length	- GIP	
ļ	05-16 Power to distribute		Pressure, Gravity	Gravity	
سط	05-17 Structure Type of water point	nt (Public Faucet PF)	RC, Masonry, Pipeetc	Gravity	
	05-18 Number of water point (Pub		no.	12	
-	05-19 Number of faucet at a water		no.	4	
0	05-20 Average of daily water cons	umption at a water point (PF)	m3/day	1m3/day	
ķ	5-21 Number of House Connection			56	(Avr. 6psn./hous
·	05-22 Average of daily water consum		m3/day	0.083m3/day	(14Lpcd
-	05-23 Number of Business Conect		1.C. CC II '. 1	Not grasped	C: C1 1
	05-24 Type of Business Connection 05-25 Average of daily water consumption		ol, Gov. office, Hospitaletc	0.377m3/day	Ctr., School
·	05-26 Other technical specimen	uton of Business Connection (BC)	m3/day	nil.	
0	35-20 Other teenmear specimen			1111.	
6 (Operation and Maintenace				
0	06-01 Organization's name		······································	Water committee	***************************************
0	06-02 Type of organization	Re	egional, Zone, Enterpriceetc	Committee	
	06-03 Number of thechnical staff			3	
	6-04 Principal works of technical			Pump operation	
-	06-05 Number of the financial staf			3	1
	06-06 Principal works of financial		Point, House Connectionetc	Water meter count, Bil. Water Point / House Co.	
	06-07 Categories of water tariff 06-08 Water tariff rate	W.I	roint, nouse Connectionetc	. Water Pollit / House Co	Jillilection
-	Water point (Public faucet)		Birr/L, 20L	0.35 bir/25L	
r	House connection		Birr/m3	8.0 birr/m3	
r	Business connection		Birr/m3	nil.	
0	06-09 Average monthly income by		Birr/month	2,000bir/month	
****	06-10 Procurement of spare parts		n, Zonal Cap. Reg. Capetc		
\$	06-11 Principal spare parts		ll filter, Fuel filter, Pipeset		
} ~~	06-12 Method in case of serious re		office, Private companyetc		. 11 E. 37 3
	06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		anization Car. D	Burned pump motor by Woreda, Zone office	unstable Elec. Voltag
ļ	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Org	anization, Gov., Donorsetc	nil.	
- 10				*****	

S-28 Gedeb

07	Problem of actual town water supply			
	07-01 Technical			
		Water shortage		
	Water supply facility Decrepit, leakage, design failureetc	Shrtage distribi	ition pipe lines	
	07-02 Finalcial	NI		
		No answer No answer		
		No answer		
		No answer		
	07-03 Other incidential, Special specimen	ivo aliswei		
	Increase in population to consume water coming from other towns, villagesetc.	Residence com	nlain water shortage	
	Change in industry increase factory, Tradingetc.		plani water shortage	
	Human conflict Ethnic, Administrativeetc			
		No answer		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	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	Commont Water Coverage (9/) (by yestern and first the coverage (9/)		On/	┥.
10	Current Water Coverage (%) (by water consumption at faucets) (1m3*12PF+0.083m3*56HC)=16.6m3/day 16.6m3/20Lpcd.= 830 persons 830 persons / 10.	021 population	8%	
	Current Water Coverage (%) (by data of water source product))	,021 population	89%	
	((1.67L+4.5)*3600sec.*8hrs)=177696L/day 177696/20Lcd=8885persos 8885persons/100	21nonulation=8		
11	Water Potential $(A/B/C/D/E)$	21population=c	C	
11	Water Folding (AFBFCFDFL)			
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	
	Town along the Asphalt road $A=Road Width > 6m/B= >3~6m/C= 1~3m/D= <1m$			
	Access road from Awasa is asphalt paved. * Refer to Chapter 5 "Table 5-7: Categories of acce	ssibility"		
13	Manpower Capability of Water Supply Management by Water Office point)	-	10	
	Water committee's staff has not any of document, DWGS for existing water supply facility.			
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	Refer to the Chapter 6	1 61	11	
	The facility can be designed in an Ethiopian standard, which is not required more advanced tech however, construction work is not difficult.	inology. The sr	nall town is on the gentle ri	age,
16	Other Donors, NGO's			
10	International Resque Committee (IRC)			
	mentalita reside committee (170)			
17	Main Ethnic Group	Gedeo		
18	Health conditions			
	<u> </u>	Health Center,	Private clinic, Drug store	
	-2 Nearest other facilities from Town km	74		
		Typhoid	4,557	
		Diarrhea	900	
19	Main economic activities	Trade, Farming		
20	Particular comments :			+
20	a arayma comments .			
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/			
	Well No.2; Establish on ??? / Depth GL-72m / Casing dia. ??" / SWL GL-???m / 4.5L/s		-by Generator	!
	* Actual water discharge of well No.2 may be 0.5~1.0L/sec. at the Inlet of GR by visual	i observation.		
<u> </u>	-			
	-			
l	-			
	•			
	-			
-	-			

Data 7.3 Small Town Profile of SNNPRS

S-28 Gedeb



S-30 Tabela (Humbo)

	SNNPR		_		24 / 52	_
	Name of small town	•	Tabela (Hur		S- 30	
	Name of Woreda	•	Humbo		SW- 23	_
	Name of Zone	:	Wolayit	a	SZ- 06	
		Profile items]	Profile	!
01	Population					
		male / female / total	by SNNPR	3,283	2,963 6,246	
	Woreda percentage of Town in Wored	male / female / total	by Census 2007	62,967	62,319 125,286 5.0%	
02	•	UTM (Adindan)	Easting / Northig / Alt.	364091	741131 1,628	_
	Town Status	,		Woreda Capital		
04	Water Source			G : *1		
	04-01 Water source 04-02 Well spec.		Type, No. Depth., Casing Dia., S.W.L, Yie	Spring*1no.	2 21)	!
	04-02 Well spec. 04-03 Method of water draw		Pump, Gravity	Gravity (1.2L/sec	o. ::)	+ •
	04-04 Pump Spec.		Type, Yield	nil.	the second secon	
	04-05 Power source for motorized p		Type, Kva	nil.		
	04-06 Durartion of water draw (Ope	ration hours)	daily hours, time	12~15hrs./day (see	below memo)	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Good nil.		
	04-08 Other technical specimen			mii.		
05	Existing Water Supply Facilities			1		1
	05-01 Established year		(Gregorian calendar)	1964		
	05-02 Financial of implementation		Donor's name	SNNPR		_
	05-03 Name of implementation (Pro 05-04 Intake Type	ject name)		Tabela (Humbo) wa	iter project	
	05-04 Intake Type 05-05 Intake No.			Spring 1		
	05-06 Conveyance Type (Water sou	rce ~ Reservoir)	Pipe material, length	GIP, 4", 3,500m		
	05-07 Power to convey		Pressure, Gravity	Gravity		<u> </u>
	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 GR*4nos.	***************************************	
	05-12 Water reserver Capacity		m3	10m3*4nos.		
	05-13 Transmission Type (Booster p	oump Stn. ~ Reservoir)	Pipe material, length	nil.		1
	05-14 Power to transmit		Pressure, Gravity	nil.		
	05-15 Distribution Type		Pipe material, length	GIP 6,500m (see be	low memo)	
	05-16 Power to distribute 05-17 Structure Type of water point	(Public Faucet PF)	Pressure, Gravity RC, Masonry, Pipeet	Gravity Mansory		
	05-18 Number of water point (Public		no.	7		
	05-19 Number of faucet at a water p		no.	2		
	05-20 Average of daily water consu	<u> </u>	PF) m3/day	3.6m3/day		
	05-21 Number of House Connection	(HC)	G) 2/1	400	(Avr. 6psn./house	:)
	05-22 Average of daily water consumpt 05-23 Number of Business Conection		C) m3/day	0.05m3/day 27		-
	05-24 Type of Business Connection		hool, Gov. office, Hospitalet			
	05-25 Average of daily water consumption			0.8~1.7m3/day		
	05-26 Other technical specimen			nil.		
0.6						
06	Operation and Maintenace 06-01 Organization's name			Town water supply	service office	+
	06-02 Type of organization		Regional, Zone, Enterpriceet		SCI VICE UITICE	-
	06-03 Number of thechnical staff		J,,	2		1
	06-04 Principal works of technical s	taff		Operation (Valve Co	ontrol), Plumbing	
	06-05 Number of the financial staff			1		
	06-06 Principal works of financial st 06-07 Categories of water tariff		V.Point, House Connectionet	Bill c. 5 categorized (see b	elow memo)	
	06-08 Water tariff rate	v	7.1 OIRI, 1100SC COMICCHOILCL	categorized (see b	ciów ilicilio)	-
	Water point (Public faucet)		Birr/L, 20L	3.0birr/household/m	nonth	
	House connection		Birr/m3		nonth from year 2010	
	Business connection	100	Birr/m3	see below memo		
	06-09 Average monthly income by v		Birr/month	3,834birr/month		-
	06-10 Procurement of spare parts 06-11 Principal spare parts		wn, Zonal Cap. Reg. Capet Oil filter, Fuel filter, Pipeset		ittings	-
	06-12 Method in case of serious repa		nal office, Private companye		1111150	
	06-13 Principal serious repair with 5		sales, i i i ace companye	nil.		
	06-14 Fund for above 6-09, 6-10		rganization, Gov., Donorset			
	06-15 Other technical specimen			nil.		1
Ì				I		

S-30 Tabela (Humbo)

O'-0.0 Technical Water source Water supply facility O'-0.2 Finalcial Management Rate of water tarris collection Personnel expenses Shortage manpower (Office sta on trial since 2010 Personnel expenses Shortage in industry Change in industry Change in industry Human conflict O'-0.4 Other incidential. Special specimen Increase in population to consume water Change in industry Human conflict O'-0.4 Other specimen O'-0.5 Other incidential. Special specimen Increase in population to consume water Change in industry Human conflict O'-0.4 Other specimen O'-0.5 Other incidential. Special specimen Increase in industry Human conflict O'-0.4 Other specimen O'-0.5 Other incidential. Special specimen Increase in industry Human conflict O'-0.5 Other specimen O'-0.5 Other speci	0.7	Buta 110 Cirian 101	7111 101110 01 011			_
Water source Water source Water source Water source Water supple facility Decrept, leakage, design failure .etc Of 10 Frankcial Rangement Rate of water froelection Perviousle expenses Shortings of badgets to coveue operation & maintenace System of water churge has been managed Incomparison to coveue operation & maintenace System of water churge has been managed Incomparison to population to coveue operation & maintenace Incomparison in population to coveue operation & maintenace Of the coverage of badgets to coveue operation & maintenace Incomparison in population to coveue water or coverage from other forwas villages, .etc. Human conflict Behavior, Francisco and the forwas villages .etc. Human conflict Of the Other specimen Of the Other specimen Of Segraphical condition (Slope on mountaion, bottom of valley, Top of ridge .etc.) Of Secressary Institution (Facility, Material) Eefer to Chapter 4 Table 4-7: Of Secressary Institution (Facility, Material) Eefer to Chapter 4 Table 4-7: Of Current Water Coverage (%) (by water consumption at faucets) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-STPF1-005m3+40HOC)-45.2m/olay 45.2m/olay (250 persons) (I On-ST	07					
Water supply facility Or-02 Final cital Management Rate of voster turif collection Personnel expenses Shortage of budget to execute operation & maintenance Or-03-05 Other insidemus, Special specimen Institute in population to commune water conning from other forus, villages, Level Institute in population to commune water conning from other forus, villages, Level Human conflict Human conflict Or-04 Other specimen Store of the population of commune water conning from other forus, villages, Level Human conflict Or-04 Other specimen Store of the population of the control of the co			uantity Quality etc			
Grpg. Finaletial Shortage management (Office sta on trial since 2010 Shortage management (Office sta on trial since 2010 Personal expenses System of water charge has been managed of 2010 Oher independential. Special systems of source charge has been managed of 2010 Oher independential. Special systems of source charge has been managed of 2010 Oher independential. Special systems of source charge has been managed of 2010 Oher independential. Special systems of source charge has been managed of 2010 Oher special systems of source charge systems of 2010 Oher special systems of 2010 Oher systems of 2010 Oher special systems of 2010 Oher systems of 2010 Oher special systems of 2010 Oher systems of 2010 Oher special systems of 2010 Oher special systems of 2010 Oher special systems of 2010 Oher special systems of 2010 Oher special systems of 2010 Ohe						
Management Rate of water tarrif collection Personnel expenses Shortage managed of balget for sevente operation & maintenance O'''.03 Other incidential. Special specialne Increase in population to consume water coming from other towns, villageset. Change in industry D'''.04 Other specimen Increase in population to consume water coming from other towns, villageset. I''.05 Other specimen O''''.05 Other specimen O''''.05 Other specimen O''''.05 Other			akage, design fandreete			
Rate of water turn't collection Personal expenses System of water charge has been managed Or-03 Other indicated, Special specimen Increase in population to consume water coming from other towns, villages Human conflict Fifthic, Administrative, .et. ml. Or-04 Other specimen September of the property of the specimen of the consument of the cons				Shortage manpo	wer (Office sta	
Personnel expenses Systems of water charge has been managed						
Or 20 Other incidential, Special specimen Increase in population to tensame water coming from other towns, villages oct Sack order of House connection Change in industry increase factory, Trading oct Other specimen or Ot		Personnel expenses		System of water	charge has been managed	
Increase in population to consume water coming from other towns, villagesetc Change industry Change industry Change Change industry Change Ch		Shortage of budget to execute operation & maintenace		ditto		
Change in industry increase factory. Tradingetc Human conflict Hithnic, Administrativeetc oil. off-Od Other specimen oil. 86 Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.) Town is slope of mountain and flat area. 87 Necessary Institution (Facility, Material) Refer to Chapter 4 Table 4.7" 88 Coursett Water Coverage (%) (by water consumption at flucets) 36% Oursett Water Coverage (%) (by water consumption at flucets) 36% Oursett Water Coverage (%) (by water consumption at flucets) 36% Oursett Water Coverage (%) (by data of water source produce) 36% Oursett Water Coverage (%) (by data of water source produce) 36% Oursett Water Coverage (%) (by data of water source produce) 36% Oursett Water Coverage (%) (by data of water source produce) 36% Oursett Water Coverage (%) (by data of water source produce) 36% Oursett Water Coverage (%) (by data of water source produce) 36% Oursett Water Coverage (%) (by data of water source) 36% Oursett Water Others (%) 36% Oursett Water Othe						
Human conflict G7-D4 Other specimen Ethnic; Administrativeetc III.				Back order of H	ouse connection	
Goggraphical condition Cslope on mountaion, bottom of valley, Top of ridge etc.						
Segraphical condition Glope on mountaion, bottom of valley, Tog of ridgestc.) Town is slope of mountain and flat area.						
Town is slope of mountain and flat area. Provided Content of Co		07-04 Otner specimen		N11.		
Town is slope of mountain and flat area. Provided Content of Co	08	Geographical condition (Slope on mountaion, bottom of	valley Top of ridge etc.)			
08 Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) (by water consumption at faucets) (3.6m3*PF+0.05m3*400HC)=45.2m3*day 45.2m3*20Lpcd.=2260 persons / 6246population = 36% Current Water Coverage (%) (by data of water source product)) (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=103500M.day 103680/20Lcd=5184persos 5184persons/6246population=85% (1.2L3/3500mc.*24lns)=1036800M.day 1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=1036800mc.*24lns)=10368000mc.*24lns)=10368000mc.*24lns)=10368000mc.*24lns)=10368000mc.*24lns)=10368000mc.*24lns)=10368000mc.*24lns)=10368000mc.*24lns)=103680000mc.*24lns)=103680000mc.*24lns)=1036800000mc.*24lns)=1036800000000000000000	00		valicy, 10p of flageetc.)			
Refer to Chapter 4 Table 4.7"						
Refer to Chapter 4 Table 4.7"						
Current Water Coverage (%) (by water consumption at faucets) 36%	09	Necessary Institution (Facility, Material)				
Carrent Water Coverage (8) by data of water source product) (1.2 L)*300/sec.*24hn)*=103680L/day 103680/20Lcd=5184person 5184persons 6246population=36%		Refer to Chapter 4 "Table 4.7"				
Carrent Water Coverage (8) by data of water source product) (1.2 L)*300/sec.*24hn)*=103680L/day 103680/20Lcd=5184person 5184persons 6246population=36%						
3.6m3*7PF+0.05m3*400HC)=45_2m3day_45_2m320Lpcd=2260 persons_2260 persons_6246population=36%				-		
Current Water Coverage (%) (by data of water source product) 83% ((1.21)*3050xe-24hns-1050801/day 103680/20Led-5184persos 5184persons/6246population=83%	10		7			
The process of the control of the			60 persons 2260 persons /	6246population		-
Water Potential (A/B/C/D/E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not Approached A/A		Current Water Coverage (%) (by data of water source product))	ne 518/marcana/62/6	pulation=920/	85%	
12 Accessibility (A/B/C/D/E) A=Asphalt/B=Base Course/C=Sub Gride/D=Only Dry Season E=Not Approached A/A	11		os 5164persons/6246pop	pulation=85%	P	+
Town along the Asphalt road	11	water rotellital (A/D/C/D/E)			В	
Town along the Asphalt road	12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub	Grade/D=Only Dry Season/E=N	Not Approached	A/A	
Access road is Asphalt road 20km from Sodo. * Refer to Chapter 5 'Table 5-7: Categories of accessibility' Manpower Capability of Water Supply Management by Water Office point) 14				L	<u> </u>	
Water office staff has not any of document, DWGS for existing water supply facility. 14			5 "Table 5-7: Categories of	accessibility"	10000010000100001000010000100001000010000	
A Dgree of urgency (A / B / C / D / E)	13	Manpower Capability of Water Supply Management by Water Off	ce point)		11	
Refer to Chapter 5 & 7 New Water Supply Plan		Water office staff has not any of document, DWGS for existing wa	ter supply facility.			
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 flateriarins, construction work is not difficult.						
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 flaterrains, construction work is not difficult.	14					
The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally factorians, construction work is not difficult. Color Donors, NGO's Wold Vision (intent for development of rural area) Welayita		Refer to Chapter 5 & 7				
The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the generally factorians, construction work is not difficult. Color Donors, NGO's Wold Vision (intent for development of rural area) Welayita	1.5	N W C I DI				-
terrains, construction work is not difficult. Color Donors, NGO's Wold Vision (intent for development of rural area)	15	New Water Supply Plan				
Other Donors, NGO'S Wold Vision (intent for development of rural area)			required more advanced tech	hnology. The sm	all town is on the generally fl	laŧ
Wold Vision (intent for development of rural area) Main Ethnic Group Welayita Health conditions -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 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Main patients of water born diseases -3 Marain 4,684 -4,684 -5 Diseases -6 Dise		terrains, construction work is not difficult.				
Main Ethnic Group Welayita	16	Other Donors, NGO's				
Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Mararia 4,684 Dysentery 937 Typhoid 625 Diarrhea 312 others 312 19 Main economic activities Trade, Farming, Waving 20 Particular comments: System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00-09:00 (BC) 2-1 05:00-11:00 (PF, HC) 3-1 05:00-08:00 (PF, HC) PF=W. Point 1-2 09:00-12:00 (PF, HC, BC-2 11:00-16:00 (HC) 3-2 08:00-12:00 (HC, BC) HC=House Connection 1-3 12:00-13:30 (PF, HC) 2-3 16:00-20:00 (HC) 3-3 12:00-13:00 (HC) BC=Business connection 1-4 13:30-20:00 (PF, BC) 3-1 13:00-14:00 (HC) 3-5 14:00-16:00 (HC)		Wold Vision (intent for development of rural area)				
Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Mararia 4,684 Dysentery 937 Typhoid 625 Diarrhea 312 others 312 19 Main economic activities Trade, Farming, Waving 20 Particular comments: System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00-09:00 (BC) 2-1 05:00-11:00 (PF, HC) 3-1 05:00-08:00 (PF, HC) PF=W. Point 1-2 09:00-12:00 (PF, HC, BC-2 11:00-16:00 (HC) 3-2 08:00-12:00 (HC, BC) HC=House Connection 1-3 12:00-13:30 (PF, HC) 2-3 16:00-20:00 (HC) 3-3 12:00-13:00 (HC) BC=Business connection 1-4 13:30-20:00 (PF, BC) 3-1 13:00-14:00 (HC) 3-5 14:00-16:00 (HC)						
-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 Persons / year -4 Dysentery -5 Particular comments -6 Particular comments: -6 System of water fee charge has been commenced since 2010. This system to be firmly established6 Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) -6 Salary of TWO's staff are still paied from Woreda Office. Howevwer, TWO to be independed in future with above water charge system7 Particular comments: -7 Particular comments: -7 System of water fee charge has been commenced since 2010. This system to be firmly established7 Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) -7 Salary of TWO's staff are still paied from Woreda Office. Howevwer, TWO to be independed in future with above water charge sysytem7 Remarks: -7 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 high7 Prew Point -7	17	Main Ethnic Group		Welayita		
-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 Persons / year -4 Dysentery -5 Particular comments -6 Particular comments: -6 System of water fee charge has been commenced since 2010. This system to be firmly established6 Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) -6 Salary of TWO's staff are still paied from Woreda Office. Howevwer, TWO to be independed in future with above water charge system7 Particular comments: -7 Particular comments: -7 System of water fee charge has been commenced since 2010. This system to be firmly established7 Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) -7 Salary of TWO's staff are still paied from Woreda Office. Howevwer, TWO to be independed in future with above water charge sysytem7 Remarks: -7 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 high7 Prew Point -7						
-2 Nearest other facilities from Town km 22 -3 Main patients of water born diseases persons / year Mararia 4,684 Dysentery 937 Typhoid 625 Diarrhea 312 others 312 19 Main economic activities Trade, Farming, Waving 20 Particular comments: System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. However, TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00-09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00-08:00 (PF, HC) PF=W. Point 1-2 09:00-12:00 (PF, HC, BC-2-11:00~16:00 (HC) 3-2 08:00-12:00 (HC, BC) HC=House Connection 1-3 12:00-13:30 (PF, HC) 2-3 16:00-20:00 (HC) 3-3 12:00-13:00 (HC) BC=Business connection 1-4 13:30-20:00 (PF, BC) 3-4 13:00-14:00 (HC) 3-5 14:00~16:00 (HC)	18			II 11 G . F		
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Dysentery 937 Typhoid 625 Diarrhea 312 others 312 19 Main economic activities Trade, Farming, Waving 20 Particular comments: System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, Bt2-2 11:00~16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1 681	
Typhoid 625 Diarrhea 312 others 312 19 Main economic activities Trade, Farming, Waving 20 Particular comments: System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)		-5 Wall patients of water both diseases p				
Diarrhea 312 others 312 Main economic activities Trade, Farming, Waving						<u> </u>
19 Main economic activities						
20 Particular comments: System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)					312	
System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00-11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W, Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00-16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)	19	Main economic activities		Trade, Farming,	Waving	
System of water fee charge has been commenced since 2010. This system to be firmly established. Private connection (House & Business Connection) has been contracted with the Format of SNNPR (Water supply service) Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00-11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W, Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00-16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)						
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Salary of TWO's staff are still paied from Woreda Office. Howevwer,TWO to be independed in future with above water charge sysytem. 21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00-16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)		,	· · · · · · · · · · · · · · · · · · ·		1	!
21 Remarks: 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. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, Bt-2-2 11:00-16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)						-
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water supply facility is high. Memo (Town sketchetc.): 04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:00 (HC)) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)	41		for Awasa Sod and Arba	Minch Therefore	heneficiary effect of new	+
Memo (Town sketchetc.) :			1 101 /1wasa, 50u anu Alba-		, conclicially effect of fiew	-
04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)		FF-7				†
04-06 Durartion of water draw (Operation hours) Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)	Men	o (Town sketchetc.):				
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Area 1-1 05:00~09:00 (BC) 2-1 05:00~11:00 (PF, HC) 3-1 05:00~08:00 (PF, HC) PF=W. Point 1-2 09:00~12:00 (PF, HC, B(2-2 11:00~16:00 (HC) 3-2 08:00~12:00 (HC, BC) HC=House Connection 1-3 12:00~13:30 (PF, HC) 2-3 16:00~20:00 (HC) 3-3 12:00~13:00 (HC) BC=Business connection 1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)		04-06 Durartion of water draw (Operation hours)				
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1-4 13:30~20:00 (PF, BC) 3-4 13:00~14:00 (HC) 3-5 14:00~16:00 (HC)						
3-5 14:00~16:00 (HC)]	BC=Business connection	
· · · · · · · · · · · · · · · · · · ·					***************************************	
Sub-10tal 15nrs/day Sub-10tal 15nrs/day 5-0 1/:00~18:00 (HC) Sub-10tal 12nrs/da				Total 125/-		
		Sub-10tal 15hrs/day Sub-10tal 15hrs/day 3	0 17:00~18:00 (HC) Sub	o-10tai 12nrs/da		

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 Health c School*3 with own ER10m3*1 Hotel*7

Health center*1 with own ER5m3*1

Gov. institution*10 Total 27 BC

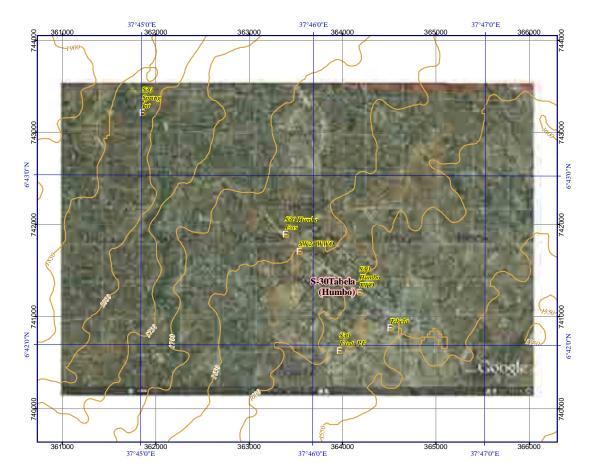
06-07 & 08 Categories of water tariff & Water tariff rate

1- Water point (PF) 3birr/month 2- House connection (HC) 6birr/month 3- Hotel (BC) 25birr/month 4- Tea house, shop (BC) 12birr/month

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

Data 7.3 Small Town Profile of SNNPRS

S-30 Tabela (Humbo)



S-32 Dimtu

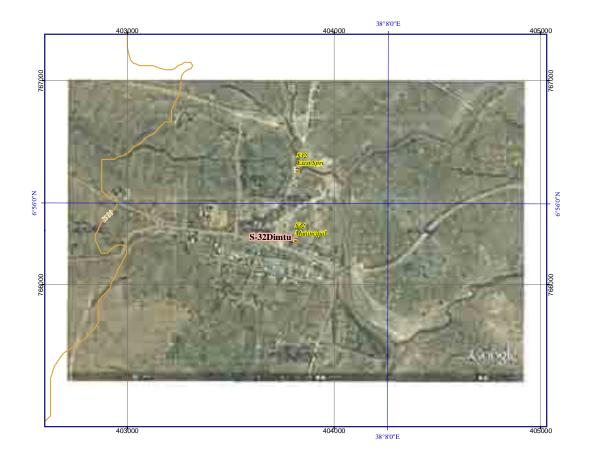
	SNNPR		2	5 / 52
	Name of small town :	Dimtu	S	- 32
	Name of Woreda :	Deguna Fani	go SW	- 24
	Name of Zone :	Wolayita	SZ	- 06
	Profile items	•	Profile	1
01	Population			
	Town male / female / total	by SNNPR	811 89	1 1,702
	Woreda male / female / total	by Census 2007	47,486 48,98	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	403721 76608	1.8% 4 1,521
	Town Status	Lasting / Norting / Art.	Town Administration	4 1,321
	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 04-04 Pump Spec.	Pump, Gravity Type, Yield	Gravity (On-spot) nil.	
	04-05 Power source for motorized pump	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. (Not	function)
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	2010	
	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 05-05 Intake No.		Spring 1	
	05-05 Intake No. 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	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type 05-11 Water reserver No.	Туре	nil.	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir)		nil.	
	05-14 Power to transmit	Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	nil.	
	05-16 Power to distribute 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity RC, Masonry, Pipeetc.	nil.	
	05-17 Structure Type of water point (Public Faucet, PF)	no.	nil.	
	05-19 Number of faucet at a water point (Public Faucet, PF		nil.	
	05-20 Average of daily water consumption at a water point	(PF) m3/day	nil.	
	05-21 Number of House Connection (HC)	410	nil.	
	05-22 Average of daily water consumption of House Connection 05-23 Number of Business Conection (BC)	(HC) m3/day	nil.	
		School, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection		nil.	
	05-26 Other technical specimen			
0.0	Oti			
06	Operation and Maintenace 06-01 Organization's name		Bilate water system	
	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.	
	06-06 Principal works of financial staff 06-07 Categories of water tariff	W.Point, House Connectionetc.	nil.	
	06-08 Water tariff rate	w.i omt, flouse Connectionetc.	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 06-10 Procurement of spare parts at '	Birr/month Town, Zonal Cap. Reg. Capetc.	nil.	
	06-10 Principal spare parts at	Oil filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious repair by Regi	ional office, Private companyetc	•	
	06-13 Principal serious repair with 5-10 years		nil.	
		Organization, Gov., Donorsetc.	nil.	
	06-15 Other technical specimen			

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 failureetc	No facility	-		
	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	110t grasped			
	Increase in population to consume water coming from other towns, villagesetc	nil			
	Change in industry increase factory, Tradingetc				
					!
		Often (wate	i figili)		
	07-04 Other specimen				
-00					
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
	Town is on flat area (bottom of rift valley)				
09	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
10	Current Water Coverage (%) (by water consumption at faucets)		?? 9	%	
	(??m3*1PF+0m3*0HC+0m3*0BC)=??m3/day ??m3/20Lpcd.=??persons ??persons/1,702p	opulation=??			
	Current Water Coverage (%) (by data of water source product))		519	%	
	((0.2L)*3600sec.*24hrs)=L/day 17280/20Lcd=864persos 864persons/1702population=51%)			
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	t Approached	B /	В	
	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m				
	Access road is Base course 42km from Sodo * Refer to Chapter 5 "Table 5-7: Categories of a	ccessibility"			
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 technology	ology water ti	eatment facilit	v to remove	
	Fluoride. The small town is on the generally flat terrains, construction work is not difficult.	ology water ti	cutinent fuerni	y to remove	
16	Other Donors, NGO's				
17	Main Ethnic Group	Walayita, A	mhara		
18	Health conditions				
	-1 Medical facilities in Town		er, Private clini	ic, Drug store	е
	-2 Nearest other facilities from Town km	64			
	-3 Main patients of water born diseases persons / year	Mararia	5,000		
		Typhoid	850		
		Dysentery	400		
19	Main economic activities	Trade, Farm	ing, Livestock		
20	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 town				
	quality survey, this area has higher effects Fluoride. Therefore, it is difficult to develop good v	water quality	around this are	a.	
21	Remarks:				
Men	no (Town sketchetc.):				
				~	
				-	
				-	
				**	
				~	
1					

Data 7.3 Small Town Profile of SNNPRS

S-32 Dimtu



S-34 Birbir

	SNNPR			26 / 52	
	Name of small town		Birbir	S- 34	
	Name of Woreda	:	Mirab Abay	a SW- 26	
	Name of Zone	:	Gamo Gofa	SZ- 07	
		Profile items		Profile	!
01	Population				
	Town Woreda	male / female / total male / female / total	by SNNPR by Census 2007		5,831 4,901
	percentage of Town in Wo		by Celisus 2007		7.8%
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.		1,239
	Town Status			Woreda Capital	
	Water Source 04-01 Water source		Type, No.	Well*2nos.	
	04-01 Water source 04-02 Well spec.		Denth., Casing Dia., S.W.L	See below memo	
	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	Commercial Elec., Standby Generator for Pump 06:00~11:00, 16:00~23:00 (13hrs	
	04-07 Water quality		Iron, Fluorideetc.	Good	, day)
	04-08 Other technical specimen				
O.F	Evisting Water County Frank				
	Existing Water Supply Facilities 05-01 Established year		(Gregorian calendar)	1991 / 2005	
	05-02 Financial of implementatio	n	Donor's name	World vision	
	05-03 Name of implementation			Birbir water project	
	05-04 Intake Type			Well	
	05-05 Intake No. 05-06 Conveyance Type (Water s	source ~ Reservoir)	Pipe material, length	2 See below memo	
	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 05-11 Water reserver No.		Type no.	GR GR*2nos.	
	05-12 Water reserver Capacity		m3	GR*75m3, 50m3 ea.	
	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	See below memo Gravity	
	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 wate		no.	4 FC*6PF, 2FC*4PF	
	05-20 Average of daily water con 05-21 Number of House Connect		m3/day	2.5m3/day 691	
	05-21 Number of House Connect 05-22 Average of daily water consul		m3/day	0.278m3/day	
	05-23 Number of Business Coned		1110, qq	76	
	05-24 Type of Business Connecti			Gov*16, NGO*10, Others*50	
	05-25 Average of daily water consum	ption of Business Connection (BC)	m3/day	0.66m3/day	
	05-26 Other technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name			Town water office	
	06-02 Type of organization 06-03 Number of thechnical staff		gional, Zone, Enterpriceetc.	Zone 6	
	06-03 Number of thechnical staff			Pump operation, Plumbins	
	06-05 Number of the financial sta			5	
	06-06 Principal works of financia			Water meter read, Bill	
	06-07 Categories of water tariff	W.F	Point, House Connectionetc.	Water point, House connection	
	06-08 Water tariff rate Water point (Public faucet)	<u> </u>	Birr/L, 20L	0.2 birr/20L	
	House connection	!	Birr/m3	See below memo	
	Business connection		Birr/m3	ditto	
	06-09 Average monthly income b		Birr/month	14,973birr/month	
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.		
		Oi	l filter, Fuel filter, Pipesetc		
	06-11 Principal spare parts 06-12 Method in case of serious t		office Private company etc	Zone Region	J
	06-11 Principal spare parts 06-12 Method in case of serious r 06-13 Principal serious repair wit	repair by Regional	office, Private companyetc		
	06-12 Method in case of serious r	repair by Regional th 5-10 years	office, Private companyetc anization, Gov., Donorsetc.	Pump burned	

S-34 Birbir

07				_
U/	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Well source	yield	
	Water supply facility Decrepit, leakage, design failureetc	Not grasped		<u> </u>
	07-02 Finalcial			
	Management	Measure of the	ransportaion, PC	1
	Rate of water tarrif collection	Not grasped		
	Personnel expenses	Not grasped		
	Shortage of budget to execute operation & maintenace	Not grasped		
		Not grasped		
	07-03 Other incidential, Special specimen			-
	Increase in population to consume water coming from other towns, villagesetc			
	Change in industry increase factory, Tradingetc.	Not grasped		
	Human conflict Ethnic, Administrativeetc	nil.		
	07-04 Other technical specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
	Gentle slope on mountain			-
09	Necessary Institution (Facility, Material)			+
09	Refer to Chapter 4 "Table 4.7"			-
	Refer to Chapter 4 Table 4.7			
				ļ
			I .	1
10	Current Water Coverage (%) (by water consumption at faucets)		252%	!
	(2.5m3*10PF+0.278m3*691HC+0.66m3*76BC)=293.8m3/day 293800/20Lpcd.= 14,690 persons 1	4,690persons /	5,831 population = 252%	1
	Current Water Coverage (%) (by data of water source product))		??%	1
	((2.1L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/5831populatio	n=??%		<u> </u>
1	Water Potential (A / B / C / D / E)		С	1
	(1) (1) (1) (1) (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	1
12	A=Road Width $> 6m / B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$	2 spproacticu	D / D	-
	Unde construction * Refer to Chapter 5 "Table 5-7: Categories of accessibility"		40	+
13	Manpower Capability of Water Supply Management by Water Office (point)		18	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7	***************************************		
15	New Water Supply Plan			
13	ivew water supply ran			
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec	hnology. The	small town is on the gent	15.
	flat terrains, construction work is not difficult.			10
	Hat terrains, construction work is not unricuit.			10
				10
16	Other Donors, NGO's			10
16				
16				
	Other Donors, NGO's	Gamo		
		Gamo		
17	Other Donors, NGO's Main Ethnic Group	Gamo		
17	Other Donors, NGO's Main Ethnic Group Health conditions		er Priyate clinic Drug str	
17	Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Health Cente	er, 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 Cente		
17	Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Health Cente 42 Mararia	5,484	
17	Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center 42 Mararia Dysentery	5,484 749	
17	Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 42 Mararia	5,484	
17	Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Center 42 Mararia Dysentery	5,484 749	
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	Health Cente 42 Mararia Dysentery Typhoid Diarrhea	5,484 749 448 90	
7 8	Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Health Cente 42 Mararia Dysentery Typhoid	5,484 749 448 90	
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 Cente 42 Mararia Dysentery Typhoid Diarrhea	5,484 749 448 90	
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:	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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:	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
17 18 19	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 supply	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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:	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply Remarks:	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supplements: Remarks:	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90	
117 118 119 220	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 supply Remarks: mo (Town sketchetc.):	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply Remarks: no (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standing the standard	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply Remarks: mo (Town sketchetc.):	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
17 18 19 20 21	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 supply Remarks: 104-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standly Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec.	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
17 18 19 20 21	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 supply. Remarks: 104-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standly Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec. 105-06 Conveyance Type (Water source ~ Reservoir)	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply Remarks: 104-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standly Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec.	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply. Remarks: 104-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standly Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec. 105-06 Conveyance Type (Water source ~ Reservoir)	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
17 18 19 20 21	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 supply Remarks: 104-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standt Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec. 105-06 Conveyance Type (Water source ~ Reservoir) Well No.1 (Old well); GIP 3" 2,500m	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
17 18 19 20 21	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 supply Remarks: 04-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standt Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec. 05-06 Conveyance Type (Water source ~ Reservoir) Well No.1 (Old well); GIP 3" 2,500m Well No.2 (New well); GIP 3" 1,500m	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re
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: The new well (2nd.) which was constructed by NGO on 2005 has not yet used for water supply Remarks: 104-02 Well spec. Well No.1; Estbsh on 1991 GL-54m / Casing dia.8" / SWL GL-??m / ??L/sec. / standt Well No.2; Estbsh on 2005 GL-107m / Casing dia.6" / SWL GL-??m / ??L/sec. 105-06 Conveyance Type (Water source ~ Reservoir) Well No.1 (Old well); GIP 3" 2,500m	Health Cente 42 Mararia Dysentery Typhoid Diarrhea Trade, Lives	5,484 749 448 90 tock	re

ND-2*1/2"=500m ND-1*1/2"=650m ND-2"=200m ND-1*1/4"=500m

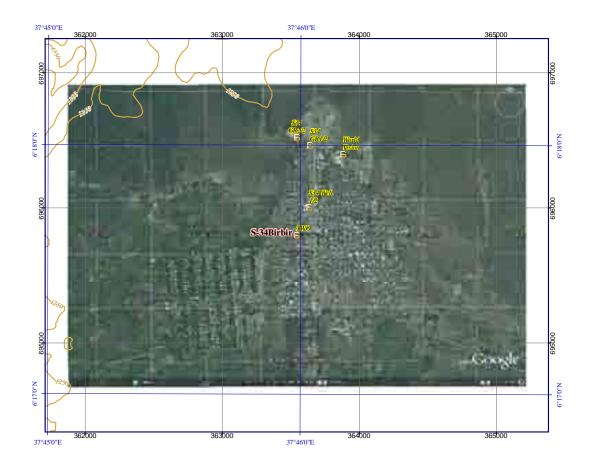
Total=1,850m

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

S-34 Birbir

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

S-34 Birbir



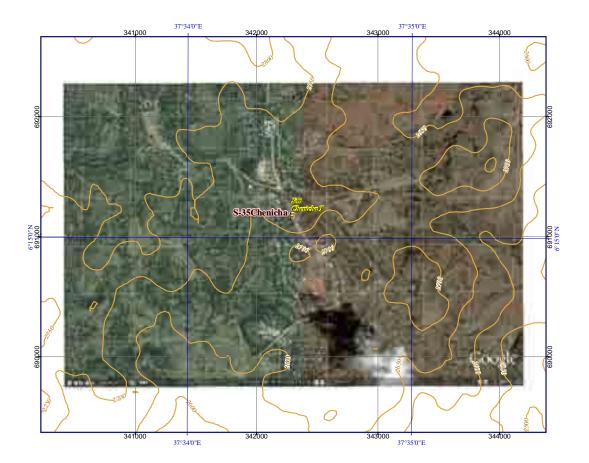
S-35 Chenicha

	SNNPR		27 / 52	_
	Name of small town :	Chenicha	S- 35	
	Name of Woreda :	Chencha	SW- 27	
	Name of Zone :	Gamo Gofa	SZ- 07	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	5,173 5,050 10,223	
	Woreda male / female / total	by Census 2007	51,307 60,373 111,680	
02	percentage of Town in Woreda Town Coordination UTM (Adindan)	Easting / Northig / Alt.	9.2% 342198 691040 2,730	
	Town Status	Easting / Hording / Fit.	Woreda Capital	
04	Water Source		•	
	04-01 Water source	Type, No.	Spring*1no., Well*1no., New well*1nd	
	04-02 Well spec.	Depth., Casing Dia., S.W.L	See below memo Gravity, Pump	
	04-03 Methor of water draw 04-04 Pump Spec.	Pump, Gravity Type, Yield	Motorized pump	
	04-05 Power source	Type, Kva	Commercial Elec.	·
	04-06 Durartion of water draw	daily hours, time	08:00-12:00, 15:00-19:00 (8hrs/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)	1988 Spring / 1994 Well-1 / 2010 Well-2	
	05-02 Financial of implementation	Donor's name	Catholic church (Spring), World vision (Well)	
	05-03 Name of implementation		Dako Dalo water project	
	05-04 Intake Type		Spring, Well	
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Dino motorial longth	Spring *1, Well * 2 GIP 3" 1,500m, PVC 2" 4,000m	
	05-06 Conveyance Type (water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	Gravity (Spring), Pressure (Well)	
	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*2nos.	
	05-12 Water reserver Capacity	m3	GR100m3*1no., GR50m3*1no.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit	Pipe material, length Pressure, Gravity	nil. 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.	14	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	4 FC*4PF, 3FC*3PF, 2FC*7PF	
	05-20 Average of daily water consumption at a water point (Pl	F) m3/day	0.2m3/day	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of House Connection(HC	C) m3/day	418 0.08m3/day	
	05-23 Number of Business Conection (BC)	-) III3/day	82	
		ool, Gov. office, Hospitaletc.	Gov., School, Hotel, Chrch, Hospital	
	05-25 Average of daily water consumption of Business Connection (Bo	C) m3/day	0.37m3/day	
	05-26 Other technical specimen			
06	Operation and Maintanace			
00	Operation and Maintenace 06-01 Organization's name		Town water supply servse office	
		Regional, Zone, Enterpriceetc.	117	
	06-03 Number of thechnical staff		3	
	06-04 Principal works of technical staff		Pump operation, Plumbing	
	06-05 Number of the financial staff		3	
	06-06 Principal works of financial staff	Dia Harris	Water meter reading, Bill W. Point, House & Business Connction	
	06-07 Categories of water tariff W 06-08 Water tariff rate	Point, House Connectionetc.	w. 1 offit, flouse & Business Confiction	
	Water point (Public faucet)	Birr/L, 20L	0.1 birr/20L	
	House connection	Birr/m3	0~30m3=3.0birr/m3, 30m3~=4.0birr/m	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	6,500birr/month	
			Arba Minch, Chencha	
		Oil filter, Fuel filter, Pipesetc	Water meter, Pipes&Fittings	
	06-12 Method in case of serious repair by Regions 06-13 Principal serious repair with 5-10 years	al office, Private companyetc	Zone Generator broken	
		rganization, Gov., Donorsetc.	Town water service office	
	06-15 Other technical specimen			

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07	Droblem of actual town water cumly			
	Problem of actual town water supply 07-01 Technical			***************************************
	Water source	0	Water shorta	200
		Quantity, Qualityetc. Decrepit, leakage, design failureet		
		Decrepit, leakage, design failureet	c.Poor design	of pipe network (dia.)
	07-02 Finalcial		Not organ	
	Management		Not grasp	1 ' 'CC
	Rate of water tarrif collection			d water tariff
	Personnel expenses		Not grasp	
	Shortage of budget to execute operation & mainte	nace	Measure of t	transportaion
	07-03 Other incidential, Special specimen			
		ming from other towns, villageset		
	Change in industry	increase factory, Tradinget		ing (Apple pla
	Human conflict	Ethnic, Administrativeet	c nil.	
	07-04 Other technical specimen			
98		bottom of valley, Top of ridgeetc	.)	
	Slope on mountain, Highland Area			
	Necessary Institution (Facility, Material)			***************************************
	Refer to Chapter 4 "Table 4.7"			
	Current Water Coverage (%) (by water consumption at			33%
	(0.2m3*14PF+0.08m3*418HC+0.37m3*82BC)/20Lpcd		,223 populatio	
	Current Water Coverage (%) (by data of water source p			??%
	((??L+??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd	d=???persos ???persons/10223poj	oulation=??%	
	Water Potential (A / B / C / D / E)			С
				,-
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Cou	rse/C=Sub Grade/D=Only Dry Season/E=No	ot Approached	B / B
		n /B= >3~6m / C= 1~3m / D= <1m		
	Sub Grade road 17km from Asphalt road of Arba Minch	ı. (=13+17km)		
	Manpower Capability of Water Supply Management by			12
1.4	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			,
	Refer to Chapter 3 & 7			
15	N W-4 C			
	New Water Supply Plan			
	Refer to the Chapter 6	highic ant apprised more advanced to	ahnalaay. Tha	a amall towns is on the cont
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w	hichis not required more advanced te	chnology. The	e small town is on the gent
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult.	hichis not required more advanced te	chnology. The	e small town is on the gent
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's	hichis not required more advanced te	chnology. The	e small town is on the gent
	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult.	hichis not required more advanced te	chnology. The	e small town is on the gent
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision	hichis not required more advanced te		e small town is on the gent
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's	hichis not required more advanced te	chnology. The	e small town is on the gent
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision Main Ethnic Group	hichis not required more advanced te		e small town is on the gent
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision Main Ethnic Group Health conditions	hichis not required more advanced te	Gamo	
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision Main Ethnic Group Health conditions -1 Medical facilities in Town		Gamo Hospital, Dr	ug store
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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	Gamo Hospital, Dr	ug store
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w slope, construction work is not difficult. Other Donors, NGO's Catholic church, World vision Main Ethnic Group Health conditions -1 Medical facilities in Town		Gamo Hospital, Dr 0 Typhoid	rug store
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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	Gamo Hospital, Dr	ug store
16	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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	Gamo Hospital, Dr 0 Typhoid	rug store
.7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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	km	Gamo Hospital, Dr 0 Typhoid Malaria Others	rug store) 300 100 2,000
.7	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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	Gamo Hospital, Dr 0 Typhoid Malaria Others	rug store) 300 100
16 17 18	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities	km	Gamo Hospital, Dr 0 Typhoid Malaria Others	rug store) 300 100 2,000
117 118 119	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments:	km persons / year	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives	ug store 300 100 2,000 stock, Weaving, Farming
16 17 18	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives	ug store) 300 100 2,000 stock, Weaving, Farming
17 18	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which were	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives	ug store) 300 100 2,000 stock, Weaving, Farming
16 17 18	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design.	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives	rug store) 300 100 2,000 stock, Weaving, Farming
16 17 18	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which were	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
16 17 18	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design.	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
.7 .8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design.	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
6 7 8 8	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks:	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
.7 .8 .8 .20	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design.	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks:	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks:	km persons / year that custemers complain for irregular	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: 10 (Town sketchetc.): 10 (Town sketchetc.): 11 (10 (Town sketchetc.): 12 (11 (Town Spring No.1 Established on 1988) ??L/sec.	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha [obil 091688]	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: to (Town sketchetc.): 04-02 Well spec. Spring No.1 Established on 1988 ??L/sec. Well No.1 Established on 1994 Depth GL-154	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha lobil 091688	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: to (Town sketchetc.): 04-02 Well spec. Spring No.1 Established on 1988 ??L/sec. Well No.1 Established on 1994 Depth GL-154	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha lobil 091688	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
116 117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 11 (Depth GL-154 Well No.2 Established on 1994 Depth GL-154 Well No.2 Established on 2010 Depth GL-??m	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha lobil 091688	rug store 300 100 2,000 stock, Weaving, Farming service the effect of water coverage
117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (4-02 Well spec. Spring No.1 Established on 1988 ??L/sec. Well No.1 Established on 1994 Depth GL-154 Well No.2 Established on 2010 Depth GL-??m	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha [obil 091688]	ug store) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage a Guja Head of WSS 81004, Office: 0467760093
117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (Town sketchetc.): 11 (Depth GL-154 Well No.1 Established on 1994 Depth GL-154 Well No.2 Established on 2010 Depth GL-??m 05-15 Distribution Type GIP ND-2*1/2=2,000m GIP ND-1"=4,000m	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no material of the properties of the person of the p	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha lobil 091688	ug store) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage a Guja Head of WSS 81004, Office: 0467760093
117 118 119 120	Refer to the Chapter 6 The facility can be designed in an Ethiopian standard, w 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 Main economic activities Particular comments: 0.5 " pipe is used as distribution line in the net work, so The new well (2nd.) and water supply facility which we due to lack of design. Remarks: 10 (Town sketchetc.): 10 (Town sketchetc.): 10 (4-02 Well spec. Spring No.1 Established on 1988 ??L/sec. Well No.1 Established on 1994 Depth GL-154 Well No.2 Established on 2010 Depth GL-??m	km persons / year that custemers complain for irregular re constructed by NGO on 2010 is no m / casing dia. 6"/ SWL GL-??m / ?? 1/ casing dia. ??"/ SWL GL-??m / ??! PVC ND-2"=3,000m	Gamo Hospital, Dr 0 Typhoid Malaria Others Trade, Lives water supply t contributed t Ato Guracha [obil 091688]	ug store) 300 100 2,000 stock, Weaving, Farming service the effect of water coverage a Guja Head of WSS 81004, Office: 0467760093

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S-36 Ezo

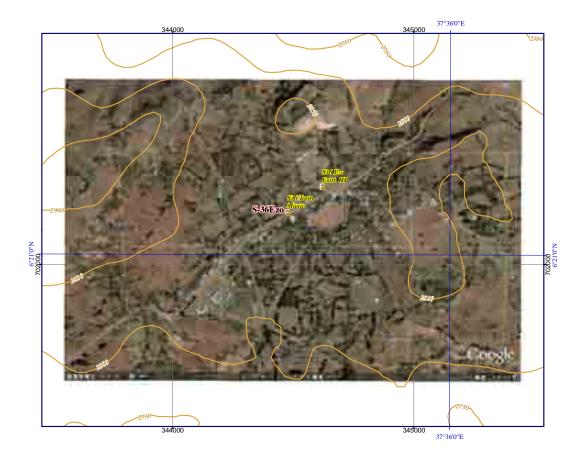
	SNNPR		28 / 52	
	Name of small town :	Ezo	S- 36	
	Name of Woreda :	Chencha	SW- 27	
	Name of Zone :	Gamo Gofa	SZ- 07	
	Profile items		Profile	!
01	Population			
	Town male / female / t	,	836 986 1,822	
	Woreda male / female / to percentage of Town in Woreda	otal by Census 2007	51,307 60,373 111,680 1.6%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	344386 702079 2,825	_
	Town Status	Easting / Porting / Fit.	Municipality 2,020	
04	Water Source			
	04-01 Water source	Type, No.	Well * 5nos. (Not function)	!
	04-02 Well spec.	Depth., Casing Dia., S.W.L, Yield	Not grasped Pump	!
	04-03 Method of water draw 04-04 Pump Spec.	Pump, Gravity Type, Yield	Handpump	-
	04-05 Power source for motorized pump	Type, Kva	Manual	-
	04-06 Durartion of water draw (Operation hours)	daily hours, time	Not function	!
	04-07 Water quality	Iron, Fluorideetc.	Not grasped	!
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			1
05	05-01 Established year	(Gregorian calendar)	2004	
	05-02 Financial of implementation	Donor's name	World Vision	1
	05-03 Name of implementation (Project name)		Ezo water system	
	05-04 Intake Type		Well (Shallow well)	ļ
	05-05 Intake No.	Directorial leads	5nos. nil.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length 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.	ļ
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster pump Stn. ~ Res	m3 ervoir) 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,			
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public Fau	no.	5 (Handpump) nil.	
	05-20 Average of daily water consumption at a water		Not grasped (Handpump)	
	05-21 Number of House Connection (HC)		nil.	-
	05-22 Average of daily water consumption of House Con	nection(HC) m3/day	nil.	
	05-23 Number of Business Conection (BC)		nil.	
	05-24 Type of Business Connection (BC) Fa 05-25 Average of daily water consumption of Business Con	ctory, School, Gov. office, Hospitaletc. nnection (BC) m3/day	nil.	-
	05-26 Other technical specimen	mecton (BC) m3/day	1111.	-
	· ·			-
06	Operation and Maintenace			
	06-01 Organization's name	D : 17 E : : :	Ezo water system Community based organization	
	06-02 Type of organization 06-03 Number of thechnical staff	Regional, 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.]
	06-07 Categories of water tariff	W.Point, House Connectionetc.	nil.	-
	06-08 Water tariff rate Water point (Public faucet)	Birr/L, 20L	Free	-
	House connection	Birr/m3	nil.	<u> </u>
	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.		ļ
	06-11 Principal spare parts 06-12 Method in case of serious repair	Oil filter, Fuel filter, Pipesetc by Regional office, Private companyetc		-
	06-13 Principal serious repair with 5-10 years	by Kegionai office, rrivate companyetc	Pump broken	
	06-14 Fund for above 6-09, 6-10	by Organization, Gov., Donorsetc.		1
	06-15 Other technical specimen			

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			_	
07	Problem of actual town water supply			
1	07-01 Technical			
	Water source	Quantity, Qualityetc.	Water shortage	
1	Water supply facility	Decrepit, leakage, design failureetc	Design failure (Well)	
1	07-02 Finalcial			
	Management		Not grasped	!
	Rate of water tarrif collection		Not grasped	!
	Personnel expenses		free	!
1	Shortage of budget to execute operation & maint	enace	Shortage water	!
1	07-03 Other incidential, Special specimen			
1		oming from other towns, villagesetc		
	Change in industry	increase factory, Tradingetc		
	Human conflict	Ethnic, Administrativeetc	nil.	
	07-04 Other specimen			
08		, bottom of valley, Top of ridgeetc.)	
	Town is on the slope of mountain.			
00	N. J. C. C. O. T. M. C. D.			
09	Necessary Institution (Facility, Material) Refer to Chapter 4 "Table 4.7"			
1	Kerei to Chapter 4 - Table 4.7			
1				
10	Current Water Coverage (%) (by water consumption at	t faucate)	0%	
10	(0m3*5PF+0m3*0HC+0m3*0BC)=0m3/day 0m3/20I			-
1	Current Water Coverage (%) (by data of water source)	product))	0%	
1	((0L)*3600sec.*8hrs)=0L/day 0/20Lcd=???persos 0		L 070	
11	Water Potential $(A/B/C/D/E)$	5persons/1022population=070	С	_
1 1	(III DI CI DI L)			_
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Co	urse/C=Sub Grade/D=Only Dry Season/E=Not	Approached B/B	-
1		m /B= >3~6m / C= 1~3m / D= <1m		
1	Access road is Asphalt & Sub grade 47km from Arba N			
13	Manpower Capability of Water Supply Management by		3	
			<u> </u>	
1				
14	Dgree of urgency (A / B / C / D / E)			
1	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
1	The facility can be designed in an Ethiopian standard, v	whichis not required more advanced tec	hnology. The small town is on the ri	idge
	however, construction works is required some ingenuiti			5~
<u> </u>				
16	Other Donors, NGO's			
1	World Vision			
17	Moin Ethnia Craye		Como	_
17	Main Ethnic Group		Gamo	
10	Health conditions			
18	-1 Medical facilities in Town		Health Center, Drug store	
1	-2 Nearest other facilities from Town	km	15	
	-3 Main patients of water born diseases	km persons / year	Mararia 169	
1	2 Main patients of water both diseases	persons / year	Typhoid 86	
1			Others 700	
19	Main economic activities		Trade, Waving, Farming	
L				
20	Particular comments :			
	Town population is less than 2,000 persons in accordan	ce with list of the candidate small town	ns.	
<u> </u>				
21	Remarks:			
1				
1			le administrator mob. 0916853298	
L		Mr. Tariku Masa Ezo Town	water committee member no telepho	one
Men	no (Town sketchetc.):			<u> </u>
<u> </u>				
<u> </u>				
ļ				
ļ				***************************************
				
1				

Data 7.3 Small Town Profile of SNNPRS

S-36 Ezo



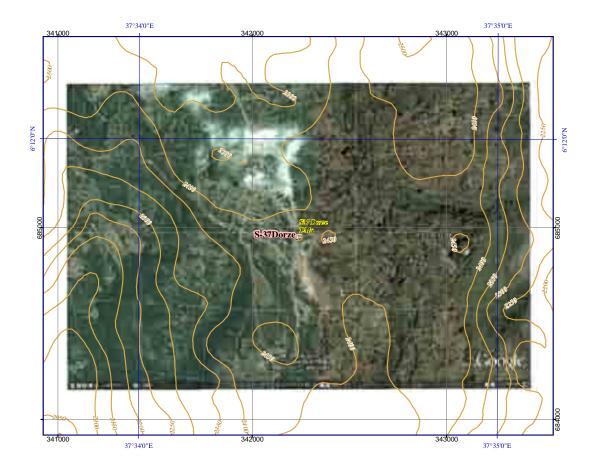
S-37 Dorze

	SNNPR			29 / 52	
	Name of small town :		Dorze	S- 37	
	Name of Woreda :		Chencha	SW- 27	
	Name of Zone :		Gamo Gofa	SZ- 07	
	Pro	file items		Profile	!
01	Population				
		female / total female / total	by SNNPR	547 709 1,256	
	percentage of Town in Woreda	Temale / total	by Census 2007	51,307 60,373 111,680 1.1%	
02	i	(Adindan)	Easting / Northig / Alt.	342151 684810 2,466	_
	Town Status			Municipality	
04	Water Source 04-01 Water source		Type, No.	Spring*1no. / Well*2nos.	
	04-02 Well spec.	Dep	th., Casing Dia., S.W.L, Yield		ļ
	04-03 Method of water draw		Pump, Gravity	Gravity / Pump	
	04-04 Pump Spec.		Type, Yield	Gravity / Hand pump	ļ
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation	hours)	Type, Kva daily hours, time	nil. / Manual 06:00-12:00, 14:00-18:00 (10hrs./day)	
	04-07 Water quality	i ilours)	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen				
0.5					
05	Existing Water Supply Facilities 05-01 Established year		(Gregorian calendar)	1980 (Spring) / 2006 (Handpump)	
	05-07 Established year 05-02 Financial of implementation		Donor's name	NGO (Not grasped name)	ļ
	05-03 Name of implementation (Project n	ame)		Dorse town water supply project	***************************************
	05-04 Intake Type			Spring / Well (shallow well)	
	05-05 Intake No.	Di-)	Diagonata in Land	1 / 2	
	05-06 Conveyance Type (Water source ~ 05-07 Power to convey	Reservoir)	Pipe material, length Pressure, Gravity	GIP, ??", 800m (Spring) Gravity	
	05-08 Water treatment		Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity		m3/day	nil.	
	05-10 Water reserver type		Туре	ER (Spring)	
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	1no. (Spring) 10m3 Spring)	ļ
	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 (Spring)	
	05-16 Power to distribute	' E (DE)	Pressure, Gravity	Gravity (Spring)	
	05-17 Structure Type of water point (Publ 05-18 Number of water point (Public Fau		RC, Masonry, Pipeetc.	Mansonry 1	
	05-19 Number of faucet at a water point (no.	2	ļ
	05-20 Average of daily water consumptio		m3/day	0.14m3/day	
	05-21 Number of House Connection (HC) 05-22 Average of daily water consumption of		2.1	nil.	↓
	05-22 Average of daily water consumption of 05-23 Number of Business Conection (BC		m3/day	nil.	
	05-24 Type of Business Connection (BC)	- <i>′</i>	ol, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of E			nil.	<u> </u>
	05-26 Other technical specimen				
06	Operation and Maintenace				
00	06-01 Organization's name			Water committee (Established on 2008)	ļ
	06-02 Type of organization	Re	gional, Zone, Enterpriceetc.	Woreda	ļ
	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.	!
	06-07 Categories of water tariff	W.F	Point, House Connectionetc.		
	06-08 Water tariff rate				d
	Water point (Public faucet)		Birr/L, 20L	Free	!
	House connection		Birr/m3	nil.	-
	Business connection 06-09 Average monthly income by water	tariff	Birr/m3 Birr/month	nil.	
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.		ļ
	06-11 Principal spare parts	Oi	l filter, Fuel filter, Pipesetc	Parts of Handpump	ļ
	06-12 Method in case of serious repair	by Regional	office, Private companyetc	Woreda	
	06-13 Principal serious repair with 5-10 y			Not grasped	
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Orga	anization, Gov., Donorsetc.	Water committee	
	00-15 Other technical specifici				

S-37 Dorze

07				
	Problem of actual town water supply			
	07-01 Technical	Cl	<i>t</i>	
	Water source Quantity, Qualityetc. Water supply facility Decrepit, leakage, design failureetc	Shortage wa		
	Water supply facility Decrepit, leakage, design failureetc 07-02 Finalcial	Design ranu	16	
	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	<u> </u>		
	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.)	<u> </u>		
00	Necessary Institution (Facility, Material)			
09	Refer to Chapter 4 "Table 4.7"			
	Rolet to Chapter 4 Table 4.7			
10	Current Water Coverage (%) (by water consumption at faucets)		0.6%	
-	(0.14m3*1PF+0m3*0HC+0m3*0BC)=0.14m3/day 0.14m3/20Lpcd.=7persons 7persons /1,2	256population		
	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=???persos ???persons/1256population=??%			
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	B / B	
	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)			
13	Manpower Capability of Water Supply Management by Water Office point)		5	
1.4			ı	
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	hnology. 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		
18	Health conditions			
	-1 Medical facilities in Town			
	0 N	Health Cente	er	
	-2 Nearest other facilities from Town km	7		
	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	7 Thyroid	600	
		7 Thyroid Dysentery	600 180	
19	-3 Main patients of water born diseases persons / year	7 Thyroid Dysentery Malaria	600 180 15	
19		7 Thyroid Dysentery	600 180 15	
	-3 Main patients of water born diseases persons / year	7 Thyroid Dysentery Malaria	600 180 15	
	-3 Main patients of water born diseases persons / year Main economic activities	Thyroid Dysentery Malaria Waving, Tra	600 180 15	
	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don	7 Thyroid Dysentery Malaria Waving, Tra	600 180 15	
	-3 Main patients of water born diseases persons / year Main economic activities Particular comments:	7 Thyroid Dysentery Malaria Waving, Tra	600 180 15	
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be done	7 Thyroid Dysentery Malaria Waving, Tra	600 180 15	
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks:	7 Thyroid Dysentery Malaria Waving, Tra ne in future.	600 180 15 de, Farming	
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl	7 Thyroid Dysentery Malaria Waving, Tra ne in future. ss.	600 180 15 de, Farming	
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele committee, Water Committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks:	7 Thyroid Dysentery Malaria Waving, Tra ne in future. ss.	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl	7 Thyroid Dysentery Malaria Waving, Tra ne in future. ss.	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl Mr. Wondwossen Beke;le Lance To (Town sketchetc.):	7 Thyroid Dysentery Malaria Waving, Tra ne in future. ss.	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele common (Town sketchetc.): Mr. Wondwossen Beke; le Lander (Town sketchetc.):	7 Thyroid Dysentery Malaria Waving, Tra ne in future. ss.	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele community of the conditions of the candidate small town Mr. Wondwossen Beke; Lancomo (Town sketchetc.): 04-02 Well spec. Spring; Not grasped	Thyroid Dysentery Malaria Waving, Tra ne in future. ss. hairman 0910	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl Mr. Wondwossen Beke; le Land no (Town sketchetc.): 04-02 Well spec. Spring; Not grasped Well No.1; Established on 2006 Depth GL-52m / casing dia. ??"/ SWL GL-??m / ??L/	Thyroid Dysentery Malaria Waving, Tra me in future. Is. hairman 0910 d resources Ac	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele community of the conditions of the candidate small town Mr. Wondwossen Beke; Lancomo (Town sketchetc.): 04-02 Well spec. Spring; Not grasped	Thyroid Dysentery Malaria Waving, Tra me in future. Is. hairman 0910 d resources Ac	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl Mr. Wondwossen Beke; le Land no (Town sketchetc.): 04-02 Well spec. Spring; Not grasped Well No.1; Established on 2006 Depth GL-52m / casing dia. ??"/ SWL GL-??m / ??L/	Thyroid Dysentery Malaria Waving, Tra me in future. Is. hairman 0910 d resources Ac	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl Mr. Wondwossen Beke; le Land no (Town sketchetc.): 04-02 Well spec. Spring; Not grasped Well No.1; Established on 2006 Depth GL-52m / casing dia. ??"/ SWL GL-??m / ??L/	Thyroid Dysentery Malaria Waving, Tra me in future. Is. hairman 0910 d resources Ac	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl Mr. Wondwossen Beke; le Land no (Town sketchetc.): 04-02 Well spec. Spring; Not grasped Well No.1; Established on 2006 Depth GL-52m / casing dia. ??"/ SWL GL-??m / ??L/	Thyroid Dysentery Malaria Waving, Tra me in future. Is. hairman 0910 d resources Ac	600 180 15 de, Farming	6420
20	-3 Main patients of water born diseases persons / year Main economic activities Particular comments: Water committee, established on 2008, has plan correction water fee for O&M which to be don Town population is less than 2,000 persons in accordance with list of the candidate small town Remarks: Mr. Kanko Ketema Kebele cl Mr. Wondwossen Beke; le Land no (Town sketchetc.): 04-02 Well spec. Spring; Not grasped Well No.1; Established on 2006 Depth GL-52m / casing dia. ??"/ SWL GL-??m / ??L/	Thyroid Dysentery Malaria Waving, Tra me in future. Is. hairman 0910 d resources Ac	600 180 15 de, Farming	6420

S-37 Dorze



S-38 Kele

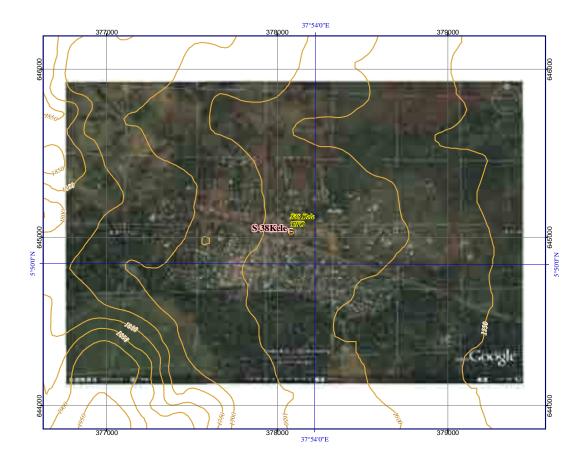
	SNNPR				30 / 52	
	Name of small town	:	Kele		S- 38	
	Name of Woreda	•	Amaro Speci	ial	SW- 28	
	Name of Zone	•	Gamo Gofa	1	SZ- 07	
		Profile items		Pro	file	!
01	Population					
	Town	male / female / total	by SNNPR	4,733	*	,632
	Woreda	male / female / total	by Census 2007	75,289 7	*	,384
02	percentage of Town in Work Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	377988 6		.648
	Town Status	C 1141 (Fidilidali)	Easting / Hording / Fite.	Municipality	11002 1	,010
04	Water Source					
	04-01 Water source		Type, No.	Spring*5nos.		
	04-02 Well spec.		Depth., Casing Dia., S.W.L Pump, Gravity	nil. Gravity		
	04-03 Methor of water draw 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 (Priva	ate)
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen					
05	Existing Water Supply Facilities					
05	05-01 Established year		(Gregorian calendar)	2000 / 2003		
	05-02 Financial of implementation		Donor's name	UNICEF, Agri serv	ise (NGO)	
	05-03 Name of implementation			Kele water project		
	05-04 Intake Type			Spring		
	05-05 Intake No. 05-06 Conveyance Type (Water so	urca - Pacarvoir)	Pipe material, length	5 See below memo		
	05-07 Power to convey	urce - Reservoir)	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*2nos. (Serge&	Reservoir Tan	k)
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster	numn Stn ~ Reservoir)	m3 Pipe material, length	GR50m3*2nos.		
	05-14 Power to transmit	pump sui 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 poir		RC, Masonry, Pipeetc.			
	05-18 Number of water point (Pub 05-19 Number of faucet at a water		no.	21 4 FC*16PF, 3FC*4	DE 2EC*1DE	
	05-20 Average of daily water cons	·		0.587m3/day	FF, ZFC*IFF	
	05-21 Number of House Connection		mis/day	600		
	05-22 Average of daily water consum		m3/day	0.23m3/day		
	05-23 Number of Business Conect			10		
	05-24 Type of Business Connectio 05-25 Average of daily water consump		ol, Gov. office, Hospitaletc.		th Cen	
	05-26 Other technical specimen	non of Business Connection (BC)	m3/day	0.33m3/day		
	25 Said teenmen specimeli					
06	Operation and Maintenace					
	06-01 Organization's name			Town water supply	servse	
	06-02 Type of organization 06-03 Number of thechnical staff	Re	gional, Zone, Enterpriceetc.	Woreda		
	06-03 Number of thechnical staff 06-04 Principal works of technical	staff		Plumbing		
	06-05 Number of the financial staf			7		
	06-06 Principal works of financial			Water meter readin	g, Bill	
	06-07 Categories of water tariff	W.I	Point, House Connectionetc.	W. Point, House co	nnectic	
	06-08 Water tariff rate		D; /I 20I	0.51: /007		
	Water point (Public faucet) House connection		Birr/L, 20L	0.5 birr/20L 1.5(0~5m3), 1.75(6~10m3) 2 0(11~20m2) 2 5	(30~)
	Business connection		Birr/m3 Birr/m3	ditto	<i>y</i> , ∠.0(11~30M3), 2.3	(50~)
	06-09 Average monthly income by	water tariff	Birr/month	9,583birr/month		
	06-10 Procurement of spare parts		n, Zonal Cap. Reg. Capetc.			
	06-11 Principal spare parts	Oi	l filter, Fuel filter, Pipesetc	Water meter, Pipes		
	06-12 Method in case of serious re		office, Private companyetc			
	06-13 Principal serious repair with		iti C D	Broken pipes by lar		
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Org	anization, Gov., Donorsetc.	Water supply service	е описе	
	15 one termen specifici					

S-38 Kele

07	Problem of actual town water su	IDDIV				
	07-01 Technical	A.da. 5				
	Water source		Quantity, Qualityetc.	Water shorta		
	Water supply facility		Decrepit, leakage, design failuree	tc Poor design o	of pipe network (dia.)	
	07-02 Finalcial					Ţ
	Management			Not grasped		
	Rate of water tarrif collec	tion		shall be rised	water tariff	
	Personnel expenses			Not grasped		
	Shortage of budget to exe	cute operation & ma	intenace	Not grasped		
	07-03 Other incidential, Special	specimen				T
	Increase in population to	consume water	coming from other towns, villagese	tc Not grasped		
	Change in industry		increase factory, Tradinge	c. Not grasped		
	Human conflict		Ethnic, Administrativee	tc Often		
	07-04 Other technical specimen					T
8	Geographical condition	(Slope on mounta	ion, bottom of valley, Top of ridgeet	c.)		
	Town: Slope of ridge, rolling, u	p and down				
9	Necessary Institution (Facility, I	Material)				
	Refer to Chapter 4 "Table 4.7"					
						1
0	Current Water Coverage (%) (b	y water consumption	at faucets)		89%	
			153.6m3/day 153.6m3/20Lpcd.= 7,681	persons 7,681	persons / 8,632 populati	or
	Current Water Coverage (%) (b	y data of water sour	ce product))		??%	1
	((??L+??L+??L)*3600sec.*??hr			ulation=??%		7
	Water Potential (A / B / C / D /				С	T
						T
2	Accessibility (A/B/C/D/E) A=Asphalt/B=Base	Course/C=Sub Grade/D=Only Dry Season/E=N	ot Approached	B / C	1
			> 6m /B= >3~6m / C= 1~3m / D= <1m			7
	Sub Grade road 35km from Asp	halt road of Dila. (=	54+35km from Dila)			†
	Manpower Capability of Water				16	1
-		A I 2			-	+-
	Dgree of urgency (A / B / C / D Refer to Chapter 5 & 7	/E)				
5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required s	ın Ethiopian standard	l, whichis not required more advanced to			s,
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources.	ın Ethiopian standard				s,
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's	in Ethiopian standard				s,
.5	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources.	in Ethiopian standard				s,
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N	in Ethiopian standard		vith neighborho		S,
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's	in Ethiopian standard				S,
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group	in Ethiopian standard		vith neighborho		S,
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions	in Ethiopian standard ome ingenuities. The GO)		with neighborho	oods for development of	
15	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town	un Ethiopian standardome ingenuities. The		with neighborho		
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required s water sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities fro	un Ethiopian standardome ingenuities. The		Kole Health Cente	oods for development of	
.6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town	un Ethiopian standardome ingenuities. The	ere are some risks of troubles, conflicts v	Kole Health Cente 165 Mararia	oods for development of	
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required s water sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities fro	un Ethiopian standardome ingenuities. The	ere are some risks of troubles, conflicts v	Kole Health Cente 165 Mararia Typhoid	oods for development of the property of the pr	
5 6	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required s water sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities fro	un Ethiopian standardome ingenuities. The	ere are some risks of troubles, conflicts v	Kole Health Cente 165 Mararia Typhoid Dysentery	oods for development of property of the proper	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities fro -3 Main patients of water bo	un Ethiopian standardome ingenuities. The	ere are some risks of troubles, conflicts v	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required s water sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities fro	un Ethiopian standardome ingenuities. The	ere are some risks of troubles, conflicts v	Kole Health Cente 165 Mararia Typhoid Dysentery others	oods for development of property of the proper	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities from 1 Medical facilities from 1 Medi	un Ethiopian standardome ingenuities. The	ere are some risks of troubles, conflicts v	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towick Swater sources. Nearest other facilities from the same particular comments:	an Ethiopian standard ome ingenuities. The GO)	km persons / year	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water boom Main economic activities Main economic activities Particular comments: There are conflict of ethic in vill	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
.7 .8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towick Swater sources. Nearest other facilities from the same particular comments:	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the composition of water boom to be a made of the conditions of water boom to be a made of the condition of the conditions of water boom to be a made of the condition of the conditions of th	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water boom Main economic activities Main economic activities Particular comments: There are conflict of ethic in vill	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the composition of water boom to be a made of the conditions of water boom to be a made of the condition of the conditions of water boom to be a made of the condition of the conditions of th	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the composition of water boom to be a made of the conditions of water boom to be a made of the condition of the conditions of water boom to be a made of the condition of the conditions of th	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 7 8 0	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required s water sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towr -2 Nearest other facilities fro -3 Main patients of water bo Main economic activities Particular comments: There are conflict of ethic in vill This small town is a priority of t Remarks:	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the composition of water boom to be a made of the conditions of water boom to be a made of the condition of the conditions of water boom to be a made of the condition of the conditions of th	an Ethiopian standard ome ingenuities. The GO)	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
5 6 7 8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the same and the	an Ethiopian standard ome ingenuities. The GO) n om Town rn diseases lage area around Kel ranquility for public	km persons / year e Town.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
.6 .7 .8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water boom Main economic activities Particular comments: There are conflict of ethic in vill This small town is a priority of the Remarks: to (Town sketchetc.): 05-06 Conveyance Type (Water	an Ethiopian standard ome ingenuities. The GO) n om Town rn diseases lage area around Kel ranquility for public source ~ Reservoir)	km persons / year e Town. safety.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 2,500 1,000 50 1,500	
.6 .7 .8	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from the state of the same and the sa	an Ethiopian standard come ingenuities. The GO) n more of the company of the com	km persons / year e Town. safety.	Kole Health Cente 165 Mararia Typhoid Dysentery others	er, Private clinic, Drug st 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 a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Main patients of water boom Main economic activities Particular comments: There are conflict of ethic in vill This small town is a priority of the Remarks: to (Town sketchetc.): 05-06 Conveyance Type (Water	an Ethiopian standard ome ingenuities. The GO) n om Town rn diseases lage area around Kel ranquility for public source ~ Reservoir)	km persons / year e Town. safety.	Kole Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	er, Private clinic, Drug st 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 a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from 100 -2 Nearest other facilities from 100 -2 Nearest other facilities from 100 -3 Main patients of water bound 100 -2 Nearest other facilities from 100 -2 Nearest other facilities fro	an Ethiopian standard come ingenuities. The GO) n more of the company of the com	km persons / year e Town. safety.	Kole Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	oods for development of 2,500 1,000 50 1,500 ng, Farming, Livestock	
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water boom and a main patients of water boom and a main patient of ethic in vill This small town is a priority of the Remarks: 10 (Town sketchetc.): 105-06 Conveyance Type (Water GIP ND-2*1/2=500m GIP ND-2*=2,500m) 105-15 Distribution Type	an Ethiopian standard come ingenuities. The GO) n more of the company of the com	km persons / year e Town. safety.	Kole Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	oods for development of 2,500 1,000 50 1,500 ng, Farming, Livestock	
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Towical Main Ethnic Group Main Ethnic Group Health conditions -1 Medical facilities in Towical Main patients of water book of the facilities from	an Ethiopian standard ome ingenuities. The GO) The composition of the	km persons / year e Town. safety. e1,500m Om GIP ND-1"=1,500m	Kole Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	oods for development of 2,500 1,000 50 1,500 ng, Farming, Livestock	
15 16 17 18 19 20	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in a construction works is required swater sources. Other Donors, NGO's UNICEF, Agri servise (N Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from a Main patients of water boom and a main patients of water boom and a main patient of ethic in vill This small town is a priority of the Remarks: 10 (Town sketchetc.): 105-06 Conveyance Type (Water GIP ND-2*1/2=500m GIP ND-2*=2,500m) 105-15 Distribution Type	an Ethiopian standard ome ingenuities. The GO) To make the following th	km persons / year e Town. safety. e1,500m 00m GIP ND-1"=1,500m e2,200m GIP ND-3/4"=800m	Kole Health Cente 165 Mararia Typhoid Dysentery others Trade, Wavin	oods for development of 2,500 1,000 50 1,500 ng, Farming, Livestock	

Data 7.3 Small Town Profile of SNNPRS

S-38 Kele



S-39 Soyama

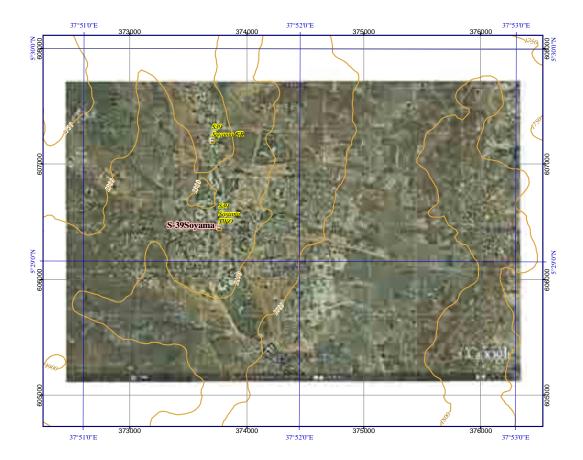
	SNNPR			31 / 5		
	Name of small town :	Soyama		S- 39		
	Name of Woreda :	Burji Specia		SW- 29		
	Name of Zone :	Gamo Gofa	1	SZ- 07	7	
	Profile items		P	rofile		•
01	Population					
	Town male / female / total Woreda male / female / total	by SNNPR	3,051	3,217	6,268	
	Woreda male / female / total percentage of Town in Woreda	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		Municipality			
04	Water Source		G : #3			
	04-01 Water source 04-02 Well spec.	Type, No. Depth., Casing Dia., S.W.L	Spring*3nos. nil.			
	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 121	PF	
	04-07 Water quality	Iron, Fluorideetc.	Good			
	04-08 Other technical specimen					
05	Existing Water Supply Facilities					
	05-01 Established year	(Gregorian calendar)	1996			
	05-02 Financial of implementation	Donor's name	Ethiopia Hiwot C			
	05-03 Name of implementation		Soyama water pro	oject		
	05-04 Intake Type 05-05 Intake No.		Spring 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	Disinfection, Ironetc.	nil.			
	05-09 Water treatment capacity	m3/day	nil.			
	05-10 Water reserver type 05-11 Water reserver No.	Туре	GR GR*3nos.			
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	GR50m3*1no., G	R25m3*2nc	DS	
	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 Mansonry			
	05-17 Structure Type of water point (Public Faucet, PF) 05-18 Number of water point (Public Faucet, PF)	RC, Masonry, Pipeetc.	Mansonry 14			
	05-19 Number of faucet at a water point (Public Faucet, PF		4			
	05-20 Average of daily water consumption at a water point	<u> </u>	1.33m3/day			
	05-21 Number of House Connection (HC)		7 (Public organiz	ation)		
	05-22 Average of daily water consumption of House Connection	(HC) m3/day	Not Grasp			
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, S	School, Gov. office, Hospitaletc.	Not Grasp	ool Health c	ontor	
	05-25 Average of daily water consumption of Business Connection		0.2m3/day	on, meanine	CITCI	
	05-26 Other technical specimen					
		-				
06	Operation and Maintenace		T	1		
	06-01 Organization's name 06-02 Type of organization	Regional, Zone, Enterpriceetc.	Town water supp Woreda	ıy servse		
	06-03 Number of thechnical staff	Regional, Zone, Enterpriceetc.	1			
	06-04 Principal works of technical staff		Plumbing, Water	meter readii	ng	
	06-05 Number of the financial staff		8			
	06-06 Principal works of financial staff		Water meter read	ing		
	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 (5.0	hirr/m3)		
	House connection	Birr/m3	nil.			
	Business connection	Birr/m3	nil.			
	06-09 Average monthly income by water tariff	Birr/month	Not Grasp			
		Town, Zonal Cap. Reg. Capetc.		naro		
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc				
	06-12 Method in case of serious repair by Regi 06-13 Principal serious repair with 5-10 years	ional office, Private companyetc	Woreda Generator broken i	for old well (Abandon)	
		Organization, Gov., Donorsetc.		.o. ora well (
	06-15 Other technical specimen	, ,				

S-39 Soyama

07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Water correct	ion is not efficiency.	
	Water supply facility Decrepit, leakage, design failureetc			
	07-02 Finalcial		- F-F	
	Management	Personal auth	ority by Municipality	
	Rate of water tarrif collection	Shall be revis		1
	Personnel expenses	Not Grasp		
	Shortage of budget to execute operation & maintenace	Not Grasp		
	07-03 Other incidential, Special specimen	Tior Grasp		+
	Increase in population to consume water coming from other towns, villagesetc	Not Grasp		
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc			!
	07-04 Other technical specimen	Otten		+-:
	07-04 Other technical specimen			
N8	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
00	Town: Slope of ridge, rolling, up and down	<u>′</u>		
	Town . Biope of riage, forming, up and down			
ng	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"			
	Refer to Chapter 4 Tubic 4.7			
10	Current Water Coverage (%) (by water consumption at faucets)	1	?? %	1
U	(1.33m3*14PF+??m3*7HC+0.2m3*4BC)/20Lpcd.= ??? persons ???persons/4,659 populatio	n =??%	/0	-
	Current Water Coverage (%) (by data of water source product))	/11 — : : /0	1.2%	
	(1.33+0.2)m3/day 1.53m3/20Lcd=765persos 765persons/6268population=1.2%		1.270	┥
11	Water Potential (A / B / C / D / E)	1	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	Annroschad	C/D	
12	A=Road Width $> 6m / B = 3 \sim 6m / C = 1 \sim 3m / D = <1m$	Approached	C/D	
	Sub Grade road 85km from Asphalt road of Dila. (=64+85km from Dila)			
12		1	13	-
13	Manpower Capability of Water Supply Management by Water Office point)		15	
14	Dgree of urgency (A / B / C / D / E)			_
	Refer to Chapter 5 & 7			
16	The facility can be designed in an Ethiopian standard, which is not required more advanced tech construction works is required some ingenuity. There are some risks of troubles, conflicts with sources.			
10	Other Donors, NGO's			
10	Other Donors, NGO's Ethiopia Hiwot Chrch (NGO)			
10				
	Ethiopia Hiwot Chrch (NGO)	Burji		
	Ethiopia Hiwot Chrch (NGO)	Burji		
17	Ethiopia Hiwot Chrch (NGO) Main Ethnic Group Health conditions	-		ater
17	Ethiopia Hiwot Chrch (NGO) Main Ethnic Group Health conditions -1 Medical facilities in Town	-	r, Private clinic, Drug st	ater
17	Ethiopia Hiwot Chrch (NGO) Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km			ater
17	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	Health Center 224 Mararia	2,570	ater
17	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	Health Center 224 Mararia Diarrhea	2,570 1,550	ater
17	Ethiopia Hiwot Chrch (NGO) 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	Health Center 224 Mararia Diarrhea Typhoid	2,570 1,550 1,200	ater
17	Ethiopia Hiwot Chrch (NGO) 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	Health Center 224 Mararia Diarrhea Typhoid Dysentery	2,570 1,550 1,200 770	ater
18	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	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ater
17	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	Health Center 224 Mararia Diarrhea Typhoid Dysentery	2,570 1,550 1,200 770 2,570	ater
117	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 Main economic activities	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ater
117	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 Main economic activities Particular comments:	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town.	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17	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 Main economic activities Particular comments:	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety.	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town.	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety.	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety.	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks:	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety.	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
117 118 119 220	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks:	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks:	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
17 18 19 20	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks:	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570	ore
117 118 119 220	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 Main economic activities Particular comments: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks: mo (Town sketchetc.):	Health Cente 224 Mararia Diarrhea Typhoid Dysentery others	2,570 1,550 1,200 770 2,570 de, Waving	ore
17 18 19 20	Ethiopia Hiwot Chrch (NGO) 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: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks: mo (Town sketchetc.): O5-15 Distribution Type GIP ND-3"=1,500m GIP ND-2"=4,250m GIP ND-1"=800m	Health Center 224 Mararia Diarrhea Typhoid Dysentery others Farming, Tra	2,570 1,550 1,200 770 2,570 de, Waving	ater
17 18 19 20	Ethiopia Hiwot Chrch (NGO) 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: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks: mo (Town sketchetc.): O5-15 Distribution Type GIP ND-3"=1,500m GIP ND-2"=4,250m GIP ND-1"=800m	Health Center 224 Mararia Diarrhea Typhoid Dysentery others Farming, Tra	2,570 1,550 1,200 770 2,570 de, Waving	ore
17 18 19 20	Ethiopia Hiwot Chrch (NGO) 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: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks: mo (Town sketchetc.): O5-15 Distribution Type GIP ND-3"=1,500m GIP ND-2"=4,250m GIP ND-1"=800m	Health Center 224 Mararia Diarrhea Typhoid Dysentery others Farming, Tra	2,570 1,550 1,200 770 2,570 de, Waving	ore
7 8 0	Ethiopia Hiwot Chrch (NGO) 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: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks: mo (Town sketchetc.): O5-15 Distribution Type GIP ND-3"=1,500m GIP ND-2"=4,250m GIP ND-1"=800m	Health Center 224 Mararia Diarrhea Typhoid Dysentery others Farming, Tra	2,570 1,550 1,200 770 2,570 de, Waving	ater
	Ethiopia Hiwot Chrch (NGO) 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: There are conflict of ethic in village area around Soyama Town. This small town is a priority of tranquility for public safety. Remarks: mo (Town sketchetc.): O5-15 Distribution Type GIP ND-3"=1,500m GIP ND-2"=4,250m GIP ND-1"=800m	Health Center 224 Mararia Diarrhea Typhoid Dysentery others Farming, Tra	2,570 1,550 1,200 770 2,570 de, Waving	ater

Data 7.3 Small Town Profile of SNNPRS

S-39 Soyama



S-41 Segen

	SNNPR			32 / 52	
	Name of small town :		Segen	S- 41	
	Name of Woreda :		Konso Spec	ial SW- 30	
	Name of Zone :		Gamo Gofa		
	Profile i	tems		Profile	!
01	Population	cins		Tronc	•
01	Town male / fem	ale / total	by SNNPR	1,833 1,793 3,626	,
	Woreda male / fem		by Census 2007	113,353 121,634 234,987	
	percentage of Town in Woreda			1.5%	_
	Town Coordination UTM (Adi	ndan)	Easting / Northig / Alt.	338910 617582 1,628	
	Town Status			Town Administration	
04	Water Source 04-01 Water source		Type, No.	Well	
	04-02 Well spec.	Der	oth., 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 hou	rs)	daily hours, time	6hrs/day	
	04-07 Water quality		Iron, Fluorideetc.	Good	
	04-08 Other technical specimen				
05	Existing Water Supply Facilities				1
US	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 ~ Rese	rvoir)	Pipe material, length	GIP, 2*1/2", 1,500m	
	05-07 Power to convey		Pressure, Gravity	Pressure nil.	
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nii.	
	05-10 Water reserver type		Туре	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		Pipe material, length	See below memo	
	05-16 Power to distribute 05-17 Structure Type of water point (Public Fa	wast DE)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity Mansonry	ļ
	05-17 Structure Type of water point (Fublic Faucet, F		no.	2	
	05-19 Number of faucet at a water point (Publi		no.	6	
	05-20 Average of daily water consumption at a		m3/day	13m3/day	
	05-21 Number of House Connection (HC)			153	
	05-22 Average of daily water consumption of House	se Connection(HC)	m3/day	0.266m3/day	
	05-23 Number of Business Conection (BC)		1. C. CC II 1	15	ļ
	05-24 Type of Business Connection (BC) 05-25 Average of daily water consumption of Busines		ol, Gov. office, Hospitaletc	0.66m3/day	
	05-26 Other technical specimen	ss Connection (BC)	m3/day	0.00m3/day	
	03-20 Other technical specimen				
06	Operation and Maintenace				
	06-01 Organization's name			Segen water supply service	
	06-02 Type of organization	Re	egional, Zone, Enterpriceetc	Municipality	<u> </u>
	06-03 Number of thechnical staff			1	
	06-04 Principal works of technical staff			Pump operation	
	06-05 Number of the financial staff 06-06 Principal works of financial staff			Not grasp Not grasp	-
	06-07 Categories of water tariff	W I	Point, House Connectionetc		
	06-08 Water tariff rate		, 110ase Connectionetc	<u> </u>	1
	Water point (Public faucet)		Birr/L, 20L	0.1birr/20L	1
	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	<u> </u>
	06-10 Procurement of spare parts		n, Zonal Cap. Reg. Capetc.		ļ
	06-11 Principal spare parts 06-12 Method in case of serious repair		il filter, Fuel filter, Pipesetc office, Private companyetc	Pipes&fittings, Generator parts	-
	06-13 Principal serious repair with 5-10 years	by Regional	ornee, riivate companyetc	Broken generator & pump	
	06-14 Fund for above 6-09, 6-10	by Org	anization, Gov., Donorsetc		
	06-15 Other technical specimen	-,, 5	, ,		1

S-41 Segen

0.7	D 11 C . 1.	1		ı
07	Problem of actual town water supply 07-01 Technical		Water shortegs	
		halitz ata	Water shortage Design failure, Leakage from pipe lines	
	Water supply facility Water supply facility Decrepit, leakage, de	Qualityetc.	Design famure, Leakage from pipe fines	-
	07-02 Finalcial	sign famureetc		
	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 Town people and villagers	
		ry, Tradingetc.		ļ
		ministrativeetc	nil.	ļ
	07-04 Other specimen			
00		6.11		
08	Geographical condition (Slope on mountaion, bottom of valley, Town is on flat area	op of riageetc.)		
	Town is on that area			
09	Necessary Institution (Facility, Material)			
0,	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 34.1m3/20Lp	cd.=3,830persons	3,830persons/3,626population=106%	
	Current Water Coverage (%) (by data of water source product))		?? %	
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=???persos ???persons/3626po	oulation=??%		
11	Water Potential (A / B / C / D / E)		С	ļ
12	A TTY (A /D /G /D /E) A A L L D D G (A A A C C C C C C C C C C C C C C C C	I. D. G	Assessment 1 B / C	ļ
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=On A=Road Width > 6m /B= >3~6m / C= 1		Approached B / C	
	A=Road width > om /B= >3~om / C= 1 Access road is Asphalt & Sub grade 42km from Konso. (=25+ 17km from K			ļ
12	Manpower Capability of Water Supply Management by Water Office point		6	
13	water Supply Management by water Office point)	0	<u> </u>
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			1
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, whichis not required r	nore advanced tecl	analogy. The small town is on the	
	generally flat terrains, however, construction works is required some ingenu			
		ares arround water	Sources.	
16	Other Donors, NGO's			
				ļ
17	Main Edwin Comm		V	
1/	Main Ethnic Group		Konso	
18	Health conditions			
10	-1 Medical facilities in Town		Health Center, Private clinic, Drug stor	·e
	-2 Nearest other facilities from Town km		67	Ī
	-3 Main patients of water born diseases persons / y	ear	Mararia 3,624	†
	persons / y		Dysentery 3,360	
			Typhoid 1,824	1
			others 768	
19	Main economic activities		Trade, Farming	
20	Particular comments :			İ
21	Remarks:			
			elechairman Mob	ļ
			Casher 0912992534	ļ
<u> </u>	,	gn Dinku Storemai	n Mob. 0920989749	ļ
Men	no (Town sketchetc.):			<u> </u>
	05 15 Distribution Type			1
ļ	05-15 Distribution Type GIP 2"-676m GIP 1*1/4"-2 708m GIP 2/4"-7	100m		
	GIP 2"=676m GIP 1*1/4"=2,708m GIP 3/4"=7 GIP 1*1/2"=50m GIP 1"=474m		Total L=4,608m	
	OH 1 1/2 -30H OH 1 -4/4H		10th 12-7,000H	J
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l				
<u> </u>	•			
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Data 7.3 Small Town Profile of SNNPRS

S-41 Segen



S-42 Gidole

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	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 Town male / female / total Woreda male / female / total percentage of Town in Woreda	by SNNPR by Census 2007	6,497 6,679 13,176 70,076 72,602 142,678 9,2%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	319680 624237 2,066	
	Town Status		Municipality	
04	Water Source 04-01 Water source 04-02 Well spec. Dep	Type, No. oth., Casing Dia., S.W.L. Yield	Spring*2nos. 0.5L/sec. ea. (Total 1.0L/sec.)	
	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	No.1 24hrs, No.2 06:00-09:00	
	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)	1970 / 1994	
	05-02 Financial of implementation	Donor's name	SNNPR	
	05-03 Name of implementation (Project name)		Tililo&Kamo development project	
	05-04 Intake Type		Spring	
	05-05 Intake No.		2nos.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	PVC, 3", 3,000m 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.	2nos.	
	05-12 Water reserver Capacity	m3	50m3*1no., 41m3*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 05-16 Power to distribute	Pipe material, length Pressure, Gravity	See below memo	
	05-17 Structure Type of water point (Public Faucet, PF)		Gravity Mansonry	
	05-18 Number of water point (Public Faucet, PF)	no.	23	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6FC*6PF, 4FC*8PF, 2FC*9PF	
	05-20 Average of daily water consumption at a water point (PF)) m3/day	0.06m3/day	
	05-21 Number of House Connection (HC)		486	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.166m3/day	
	05-23 Number of Business Conection (BC)		12	
		ol, Gov. office, Hospitaletc.		
	05-25 Average of daily water consumption of Business Connection (BC 05-26 Other technical specimen) m3/day	0.633m3/day	
	00-20 Onici recinicai specificii			
06	Operation and Maintenace			
	06-01 Organization's name		Gidole town water supply service	
l	ļ	egional, Zone, Enterpriceetc.	Woreda	
	06-03 Number of thechnical staff		2	
	06-04 Principal works of technical staff		Plumbing	
	06-05 Number of the financial staff		4	
	06-06 Principal works of financial staff 06-07 Categories of water tariff W.	Point, House Connectionetc.	Water meter read, Bill	
	06-07 Categories of water tariff W. 06-08 Water tariff rate	roint, House Connectionetc.	W. point, House connection	
	Water point (Public faucet)	Birr/L, 20L	3.0birr/month/household	
	House connection	Birr/m3	1.0birr/m3	
	Business connection	Birr/m3	ditto	
	06-09 Average monthly income by water tariff	Birr/month	2,500birr/month	
		il filter, Fuel filter, Pipesetc		
		office, Private companyetc	Mr. Mohamed Surur Land adm. Coordinator Mob. 0910040236,	
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by Org	anization, Gov., Donorsetc.	Broken pipes (PVC)	
	06-15 Other technical specimen	amzation, Gov., Dollorsetc.	iviumcipanty	
l				

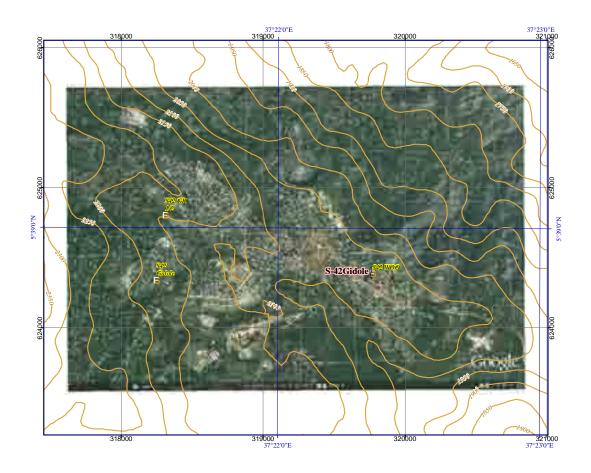
S-42 Gidole

07	Problem of actual town water supply		I		
	07-01 Technical				
	Water source	Quantity, Qualityetc.	Water shorts	ge (decreased water yield	17
1	Water supply facility	Decrepit, leakage, design failureetc.		50 (decreased water yield	-/
	07-02 Finalcial	Decrepit, leakage, design famureet	i vot gruspeu		+
	Management		Not grasped		+
	Rate of water tarrif collection		low		
	Personnel expenses		low		
	Shortage of budget to execute operation & m	aintenace		lget for O&M	_
Ì	07-03 Other incidential, Special specimen			8	
	Increase in population to consume water	coming from other towns, villagesetc	nil.		T T
Ì	Change in industry	increase factory, Tradingetc			
l	Human conflict	Ethnic, Administrativeetc			
	07-04 Other specimen	,			1

)8	Geographical condition (Slope on mount	aion, bottom of valley, Top of ridgeetc.)		-
ı	Rugged land with mountainous srround				1
)9	Necessary Institution (Facility, Material)				
	Refer to Chapter 4 "Table 4.7"				
					╧
	Current Water Coverage (%) (by water consumption			34%	
L.	(0.06m3*23PF+0.166m3*486HC+0.633m3*12BC)=89		4,485persons		ļ.
	Current Water Coverage (%) (by data of water sou	rce product))		33%	
	((0.5L+0.5L)*3600sec.*24hrs)=86400L/day 8640	0/20Lcd=4320persos 4320persons/13176	population=3		
11	Water Potential (A / B / C / D / E)			C	
					4
12		e Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B / B	
		> 6m /B= >3~6m / C= 1~3m / D= <1m			
_	Access road is Asphalt & Base course 42km from I	,			
13	Manpower Capability of Water Supply Managemer	nt by Water Office (point)		11	_
			,		
	Dgree of urgency (A / B / C / D / E)				
	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7				1
15	Refer to Chapter 5 & 7 New Water Supply Plan	d, whichis not required more advanced tec	chnology. The	small town is on the gen	tle
15	Refer to Chapter 5 & 7		chnology. The	small town is on the gen	tle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit Other Donors, NGO's		chnology. The	small town is on the gen	tle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit		chnology. The	small town is on the gen	tle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit Other Donors, NGO's		chnology. The		tle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit Other Donors, NGO's Refer to the Chapter 6				tle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit Other Donors, NGO's Refer to the Chapter 6				tle
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group		Derashe. Am		
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	ies arround water sources.	Derashe. Am	nhara alth Center, Private clinic	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions -1 Medical facilities in Town	ies arround water sources.	Derashe. Am	ıhara	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	ies arround water sources.	Derashe. Am Hospital, He	alth Center, Private clinic	
15 16	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	ies arround water sources.	Derashe. Am Hospital, He Mararia Dysentery	alth Center, Private clinic 8,818 4,969	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	ies arround water sources.	Derashe. Am Hospital, He Mararia Dysentery Typhoid	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	ies arround water sources.	Derashe. Am Hospital, He Mararia Dysentery	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	ies arround water sources.	Derashe. Am Hospital, He Mararia Dysentery Typhoid	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	km persons / year	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555	
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac	km persons / year	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555	
115 116 117 118 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in activities Remarks:	km persons / year cordance with list of the candidate small to	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks:	km persons / year cordance with list of the candidate small to	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc. Mr. Shita Shio	km persons / year cordance with list of the candidate small to	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks:	km persons / year cordance with list of the candidate small to	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in activities Remarks: Mr. Adane Sette Mr. Shita Shio o (Town sketchetc.):	km persons / year cordance with list of the candidate small to	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setcom Mr. Shita Shio of (Town sketchetc.):	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc Mr. Shita Shio o (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,500m GIP 1*1"=400m	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setcom Mr. Shita Shio of (Town sketchetc.):	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc Mr. Shita Shio o (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,500m GIP 1*1"=400m	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc Mr. Shita Shio o (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,500m GIP 1*1"=400m	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	Dr.
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc Mr. Shita Shio o (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,500m GIP 1*1"=400m	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 120	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc Mr. Shita Shio o (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,500m GIP 1*1"=400m	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr
115 116 117 118 119 119	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standar slope, construction works is required some ingenuit 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: Town population is more than 13,000 persons in ac Remarks: Mr. Adane Setc Mr. Shita Shio o (Town sketchetc.): 05-15 Distribution Type GIP 3"=1,500m GIP 1*1"=400m	km persons / year cordance with list of the candidate small to ta Woreda water res. Office WSS process H/Gidole Town WS Service Mob. 091688	Derashe. Am Hospital, He Mararia Dysentery Typhoid Trade, Wavin	alth Center, Private clinic 8,818 4,969 555 ng, others	c, Dr

Data 7.3 Small Town Profile of SNNPRS

S-42 Gidole



S-43 Kibat

	SNNPR				34 / 52		
	Name of small town		Kibat		S- 43		
	Name of Woreda	:	Silti		SW- 32		
	Name of Zone	:	Silte		SZ- 08		
		Profile items		P	rofile		!
01	Population						
	Town	male / female / total	by SNNPR	2,917	2,759	5,676	
	Woreda percentage of Town in Wore	male / female / total	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	(Municipality		_,	
04	Water Source						
	04-01 Water source		Type, No.	Well*2nos.			ļ
	04-02 Well spec. 04-03 Methor of water draw		Depth., Casing Dia., S.W.L Pump, Gravity	see below memo Pump			ļ
	04-04 Pump Spec.		Type, Yield	Motorized pump			<u> </u>
	04-05 Power source		Type, Kva	Commercial Elec. / st	and by Genera	ator (broker	
	04-06 Durartion of water draw		daily hours, time	07:00-13:00, 15:00-2	3:00 (14hrs./d	lay)	
	04-07 Water quality		Iron, Fluorideetc.	Good			ļ
	04-08 Other technical specimen			nil.			ļ
05	Existing Water Supply Facilities						
0.5	05-01 Established year		(Gregorian calendar)	1985			ļ
	05-02 Financial of implementation		Donor's name	Contral government			İ
	05-03 Name of implementation			Kibat town water pro	ject		
	05-04 Intake Type			Well 2			ļ
	05-05 Intake No. 05-06 Conveyance Type (Water so	urca - Pasarvoir)	Pipe material, length	GIP & PVC, 2"~3", 6	26/m (see be	low)	ļ
	05-07 Power to convey	buice ~ Reservoir)	Pressure, Gravity	Pressure	1,204III (SEE DE	iow)	
	05-08 Water treatment		Disinfection, Ironetc.	nil.			ļ
	05-09 Water treatment capacity		m3/day	nil.			
	05-10 Water reserver type		Туре	GR, ER			ļ
	05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	GR*2now., ER*4nos GR 50m3*2nos., ER			ļ
	05-12 Water reserver Capacity 05-13 Transmission Type (Booster	numn Stn ~ Reservoir)	Pipe material, length	nil.	101115 "41108.		
	05-14 Power to transmit	pump sui. Reservoir)	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 poir			Mansonry, Pipes 16			ļ
	05-18 Number of water point (Pub 05-19 Number of faucet at a water		no.	6, 4 nos.			
	05-20 Average of daily water cons		m3/day	3.05m3			 -
	05-21 Number of House Connection	on (HC)		553			<u> </u>
	05-22 Average of daily water consum	_	m3/day	4.52m3/day			
	05-23 Number of Business Conect		1 C CC II : 1	33			ļ
	05-24 Type of Business Connectio 05-25 Average of daily water consump		l, Gov. office, Hospitaletc. m3/day	see below (Total 34 I	BC)		ļ
	05-26 Other technical specimen	tion of Business Connection (BC)	III3/day	J2.6L.uay			
	oo 20 Outer teemment speemen						
06	Operation and Maintenace						
	06-01 Organization's name			Town water supply co			ļ
	06-02 Type of organization 06-03 Number of thechnical staff	Reg	gional, Zone, Enterpriceetc				ļ
	06-04 Principal works of technical	staff		5 Pump operation, plun	nhing		
	06-05 Number of the financial staf			5	ionig		
	06-06 Principal works of financial			Water meter counting	, Billing		
	06-07 Categories of water tariff	W.P	oint, House Connectionetc.	W. Poinat, House con	nection		
	06-08 Water tariff rate						<u> </u>
	Water point (Public faucet)		Birr/L, 20L	0.1 birr/20L			ļ
	House connection Business connection		Birr/m3 Birr/m3	see below ditto			
	06-09 Average monthly income by	water tariff	Birr/month	14,000 bir,month.			ļ
	06-10 Procurement of spare parts		, Zonal Cap. Reg. Capetc.				<u> </u>
	06-11 Principal spare parts	Oil	filter, Fuel filter, Pipesetc	Pipe and Fittings			
	06-12 Method in case of serious re		office, Private companyetc				<u> </u>
	06-13 Principal serious repair with		-iti C D	Water supply service	office own.		ļ
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	by Orga	nization, Gov., Donorsetc.	Burnea pump motor			
I	55 15 Onici tecinicai specinicii						

S-43 Kibat

07	Problem of actual town water supply		
,	07-01 Technical		
	Water source Quantity, Quality etc.	Shortage water quantity	
	Water supply facility Decrepit, leakage, design failureetc		
	07-02 Finalcial	Design famore	
	· · · · · · · · · · · · · · · · · · ·	High fuel cost	
	Rate of water tarrif collection	Trigii fuci cost	
	Personnel expenses Shortens of hydrot to proports operation & maintaneous		
	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.		
	Human conflict Ethnic, Administrativeetc	nıl.	
	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.	
09	Necessary Institution (Facility, Material)		
l	Refer to Chapter 4 "Table 4.7"		
10	Current Water Coverage (%) (by water consumption at faucets)	176%	!
l	(3.05m3*16PF+4.52*33HC+0.052m3*34BC)=199.7m3/day 199.7m3/20Lpcd.=9986persons	9986 persons/5676population=176%	
	Current Water Coverage (%) (by data of water source product))	??%	•••••
	((??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/5676population	=??%	
11	Water Potential (A/B/C/D/E)	В	
	(2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2		**********
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	ot Approached A / A	
1	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	11,11	
	Access road is Asphalt road 13km from Butajira. * Refer to Chapter 5 "Table 5-7: Categories of the Chapter 5 "Table 5-7" Categories of the Chapter 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table 5 "Table	of accessibility"	
13	Manpower Capability of Water Supply Management by Water Office point)	18	
13	water Supply Management by water Street points	10	••••
1.4	Dgree of urgency (A / B / C / D / E)	1	
14	Refer to Chapter 5 & 7		
	Refer to Chapter 3 & 7		
1.5	N. W. G. J. Di		
15	New Water Supply Plan		
	The facility can be designed in an Ethiopian standard, which is not required more advanced tecl	nnology. The small town is on the generally fla	ŧ
	terrains, construction work is not difficult.		
	O.L. D. MOO!		
16	Other Donors, NGO's		
17	Main Ethnic Group	Silte	
18	Health conditions		
l		Health Center, Private clinic, Drug store	
l	-2 Nearest other facilities from Town km	12	
	-3 Main patients of water born diseases persons / year	Dysentery 7,000	
l		Malaria 5,000	
<u> </u>		Typhoid 500	
19	Main economic activities	Trade, Farming	
	Particular comments :		
20	<u></u>	CC 11	i
20	The watersupply facility has been relatively good managed by the Woreda water office and this	s office collects water fee for public faucets and	
20		s office collects water fee for public faucets and	
20	The watersupply facility has been relatively good managed by the Woreda water office and this private water connections. Morale of operators of the pump station is high.	s office collects water fee for public faucets and	
	private water connections. Morale of operators of the pump station is high.	s office collects water fee for public faucets and	
	private water connections. Morale of operators of the pump station is high. Remarks:	s office collects water fee for public faucets and	
	private water connections. Morale of operators of the pump station is high. Remarks: (1) Written records, even if it is by hand	s office collects water fee for public faucets and	
	private water connections. Morale of operators of the pump station is high. Remarks:	s office collects water fee for public faucets and	

S-43 Kibat

04-02 Well spec.					
Well No.1; Estb	sh on 1985 GL-119.1m / Casin	ng dia.6" / SWL GL-55.3m	/ ??L/sec. / 14kw		
Well No.2: Estb	sh on 1985 GL-172.6m / Casin	ng dia.6" / SWL GL-50.0m	/ ??L/sec. / 18kw / w	ith stand by generato	r 23.5kva (broken
, , , , , , , , , , , , , , , , , , , ,					
05-06 Conveyance pipe					

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

 $0\sim5m3 = 3.25birr/m3$ $11\sim30m3 = 3.75birr/m3$ $6\sim10m3 = 3.50birr/m3$ $31m3\sim = 4.00birr/m3$

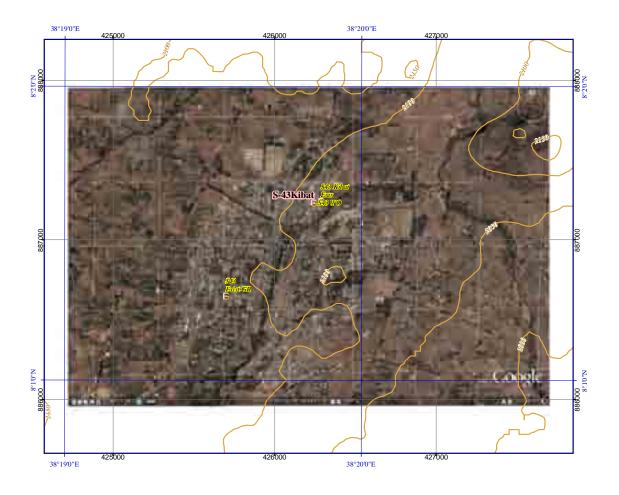
Water meter lease;

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

Dia. 1/2" = 3.0birr/month
Dia. 3/4" = 4.0birr/month
Dia. 1" = 5.0birr/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).



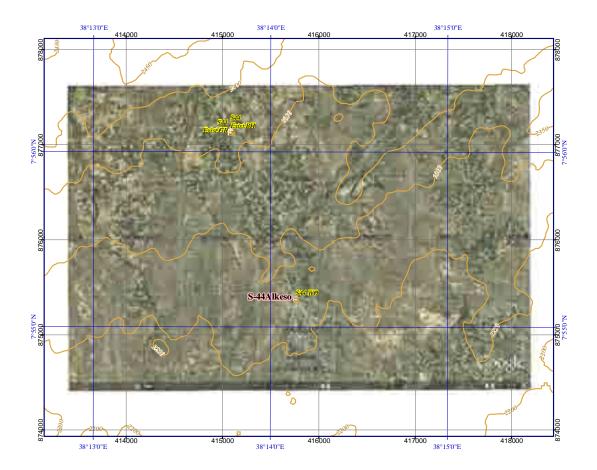
S-44 Alkeso

	SNNPR		35 / 52	
	Name of small town :	Alkeso	S- 44	
	Name of Woreda :	Silti	SW- 32]
	Name of Zone :	Silte	SZ- 08	
	Profile items		Profile	!
01	Population			Ť
	Town male / female / total	by SNNPR	506 522 1,028	
	Woreda male / female / total	by Census 2007	87,583 89,740 177,323	
	percentage of Town in Woreda		0.6%	
	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	415670 875249 2,283	
	Town Status Water Source		Town Administration	
04	04-01 Water source	Type, No.	Well * 1no.	
			GL-182m, 6*5/8", GL-91.5m, 5L/sec.	
	04-03 Method of water draw	Pump, Gravity	Pump	
	04-04 Pump Spec.	Type, Yield	Motorized pump (3.9kw)	
	04-05 Power source for motorized pump	Type, Kva	Commercial Elec. With Standy Generator 37.5kva	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	12:00~15:30, 20:00~23:30 (7hrs./day)	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen			ļ
05	Existing Water Supply Facilities			1
	05-01 Established year	(Gregorian calendar)	1999	
	05-02 Financial of implementation	Donor's name	SNNPR	
	05-03 Name of implementation (Project name)		Alkeso 01 water supply pr	
	05-04 Intake Type		Well	
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Diagramatical description	Ino.	
	05-06 Conveyance Type (Water source ~ Reservoir) 05-07 Power to convey	Pipe material, length Pressure, Gravity	GIP, 3", 30m 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.	1 no.	
	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	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.	12 (2/12 are not function)	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	6FC*7PF, 2FC*5PF	
	05-20 Average of daily water consumption at a water point (PF) m3/day	6m3/day	
	05-21 Number of House Connection (HC)	0/1	93	
	05-22 Average of daily water consumption of House Connection(HC)	m3/day	0.67m3/day	
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, Scho	ool, Gov. office, Hospitaletc.	School*1, Mosque*4, Café*14	
	05-25 Average of daily water consumption of Business Connection (BC)) m3/day	0.83m3/day	
	05-26 Other technical specimen	, moraly		l
06	Operation and Maintenace			
	06-01 Organization's name		Alkeso water committee	ļ
	06-02 Type of organization R 06-03 Number of thechnical staff	egional, Zone, Enterpriceetc.	Community Based Organization	
	06-04 Principal works of technical staff		Pump operation, Plumbins	
	06-05 Number of the financial staff		10	
	06-06 Principal works of financial staff		Water meter read, Bill	1
		Point, House Connectionetc.	W. Point, House connection	
	06-08 Water tariff rate			
	Water point (Public faucet)	Birr/L, 20L	0.1birr/20L	ļ
	House connection Business connection	Birr/m3 Birr/m3	3.0birr/m3 ditto	
	06-09 Average monthly income by water tariff	Birr/m3 Birr/month	4,000birr/month	
			Addis Ababa, Butajira, Worabel	
		il filter, Fuel filter, Pipesetc		İ
		office, Private companyetc	Zone	
	06-13 Principal serious repair with 5-10 years		Pump control panel	
		ganization, Gov., Donorsetc.	Community	ļ
	06-15 Other technical specimen			ļ
				I

S-44 Alkeso

	Problem of actual town water supply			
	07-01 Technical			
ļ		Shortage wa		
	Water supply facility Decrepit, leakage, design failureetc	Leakage fro	m pipe lines	
	07-02 Finalcial			
Ì	Management	Skill of staff	f	
		Delay bill co		······································
ŀ		nil.	orrection	
-			1 1	
ļ		Shortage of	budget for O&M	
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villagesetc	Not grasp		
Ì	Change in industry increase factory, Tradingetc.			
1	Human conflict Ethnic, Administrativeetc			
ŀ	07-04 Other specimen			
	07-04 Other specimen			
0				
0	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.))		
į	Slope of mountatin			
ļ				
9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
ŀ				
ŀ				
_	Comment Western Comment (9/1) (become to a comment of the comment		(700/	-+
	Current Water Coverage (%) (by water consumption at faucets)		672%	
	(6m3*10PF+0.67m3*93HC+0.83m3*19BC)=138.1m3/day 138.1m3/20Lpcd.=6,905persons	6,905perso		672%
	Current Water Coverage (%) (by data of water source product))		700%	[
	((5L)*3600sec.*8hrs)=144000L/day 144000/20Lcd=7200persos 7200persons/1028populat	tion=700%		
	Water Potential (A / B / C / D / E)		В	
Ì				- -
2	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Annroached	A/B	- +
-	ACCESSIBILITY (A / B / C / D / E) A-Aspirato B-Date Course C-Sub-Grade / D-Only Bry Season E -Not A=Road Width > 6m / B= >3~6m / C= 1~3m / D= <1m	pprouencu	11/ D	
-		_£ '1 '1	· · · · · · · · · · · · · · · · · · ·	
	Access road is Asphalt road 29km from Butajira. * Refer to Chapter 5 "Table 5-7: Categories	of accessibil		
3	Manpower Capability of Water Supply Management by Water Office point)		15	
	i			
	Dgree 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	hnology. The	e 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 required more advanced tecl	hnology. The	e small town is on the	· —
5	Refer to Chapter 5 & 7 New Water Supply Plan	hnology. The	e 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 required more advanced tecl 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 The facility can be designed in an Ethiopian standard, whichis not required more advanced tecl	hnology. The	e small town is on the	,
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5 6	Refer to Chapter 5 & 7 New Water Supply Plan 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 Main Ethnic Group		e small town is on the	·
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5 6 8	Refer to Chapter 5 & 7 New Water Supply Plan 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 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	Silte Private clini 75 Mararia Typhoid	ic, Health post 5 200 120	
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77 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Refer to Chapter 5 & 7 New Water Supply Plan 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 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 Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 2*1/2"=2,500m PVC 1*1/2"=1,110m	Silte Private clini 75 Mararia Typhoid Trade, Farm	ic, Health post 5 200 120	
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77733	Refer to Chapter 5 & 7 New Water Supply Plan 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 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 Remarks: no (Town sketchetc.): 05-15 Distribution Type GIP 2*1/2"=2,500m PVC 1*1/2"=1,110m	Silte Private clini 75 Mararia Typhoid Trade, Farm	ic, Health post 5 200 120	
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S-44 Alkeso



S-46 Tora

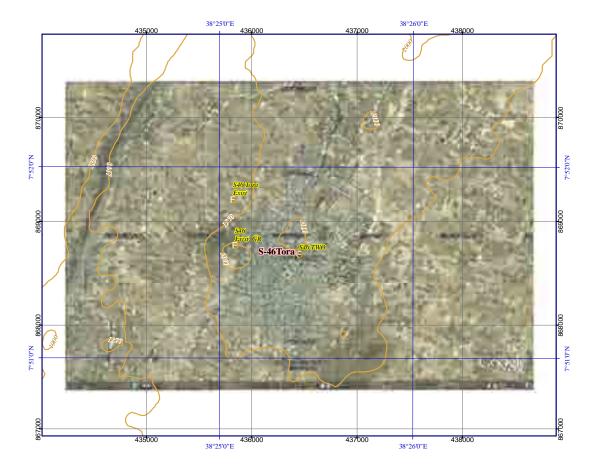
SNNPR			36 / 52	
Name of small town		Tora	S- 46	
Name of Woreda		Lanifaro (Lan	ifuro) SW- 33	
Name of Zone	:	Silte	SZ- 08	
	Profile items		Profile	!
Population	1 (6 1 ()	1 GMMDD	1000 1007 0100	
Town Woreda	male / female / total male / female / total	by SNNPR by Census 2007	4,896 4,267 9,163 58,834 57,257 116,091	
percentage of Town in Wo		by Celisus 2007	7.9%	
22 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	436358 868558 1,997	
73 Town Status			Woreda Capital	
04 Water Source 04-01 Water source		Type, No.	Well*2nos.	
04-02 Well spec.	I	Depth., Casing Dia., S.W.L, Yiel	ld GL-=240m / 251m, Dia.6"/6", GL-213/??m	
04-03 Method of water draw		Pump, Gravity	Pump	
04-04 Pump Spec.	1	Type, Yield	Motorized pump Commercial Elec. (Unstable)	
04-05 Power source for motorize 04-06 Durartion of water draw (0		Type, Kva daily hours, time	06:00-12:00, 13:30-22:30 (15hrs./day)	
04-07 Water quality	Speranon noms)	Iron, Fluorideetc.	Good	
04-08 Other technical specimen				
OS Enistina Water Connello Englistina				
D5 Existing Water Supply Facilities 05-01 Established year		(Gregorian calendar)	1996	
05-02 Financial of implementation	on	Donor's name	UNICEF	
05-03 Name of implementation (Project name)		Tora town water supply project	
05-04 Intake Type			Well	
05-05 Intake No. 05-06 Conveyance Type (Water	source ~ Reservoir)	Pipe material, length	2 PVC, 3", 400m	
05-07 Power to convey	source ~ 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	GR GR*3nos.	
05-11 Water reserver No. 05-12 Water reserver Capacity		no. m3	GR 25m3*1no., GR 10m3*2nos.	
05-12 Water reserver capacity 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	GIP, 1"~2*1/2", 4,900m (see below)	
05-16 Power to distribute 05-17 Structure Type of water po	oint (Public Faucet DE)	Pressure, Gravity RC, Masonry, Pipeeto	Gravity Mansonry Pine	
05-18 Number of water point (Pu		no.	12 (6 nos. broken)	
05-19 Number of faucet at a water	er point (Public Faucet, PF)	no.	6 / 4	
05-20 Average of daily water co		PF) m3/day	5m3/day	
05-21 Number of House Connec 05-22 Average of daily water consu		IC) m3/day	364 66L/day	
05-23 Number of Business Cone		ic) ili3/day	11	
05-24 Type of Business Connect		hool, Gov. office, Hospitalet	c.School*1, Gov.*5, Health Cntre*1, Mosque*4	
05-25 Average of daily water consur	nption of Business Connection (BC) m3/day	100L/day	
05-26 Other technical specimen				
06 Operation and Maintenace				
06-01 Organization's name			Community water supply service	
06-02 Type of organization		Regional, Zone, Enterpriceet	c Community Based Organization (CBO	
06-03 Number of thechnical staf	·		3	
06-04 Principal works of technic 06-05 Number of the financial st			Pump operation, plumbing	
06-06 Principal works of financia			Water meter rading, Billig	
06-07 Categories of water tariff	7	W.Point, House Connectionet		
06-08 Water tariff rate				
Water point (Public faucet	·)	Birr/L, 20L	0.3 birr/30L 7.5 birr/m3	
House connection Business connection		Birr/m3 Birr/m3	/.5 birr/m3 ditto	
06-09 Average monthly income	by water tariff	Birr/month	14,000 birr/month	
06-10 Procurement of spare parts		own, Zonal Cap. Reg. Capetc		
		Oil filter, Fuel filter, Pipeset		
06-11 Principal spare parts				
06-12 Method in case of serious		nal office, Private companye	tc Notify Woreda < Zone < Regional	
	th 5-10 years	nal office, Private companyet Organization, Gov., Donorset	Burned pump motor	

S-46 Tora

07				
	Problem of actual town water supply			
	07-01 Technical	GI .		
	Water source Quantity, Qualityetc.	Shrtage water		
	Water supply facility Decrepit, leakage, design failureetc	Design failu	re	
	07-02 Finalcial	D 1		
	Management		ment from Customers	
	Rate of water tarrif collection	Tariff rate		
	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	coming from	other villege	_
	Change in industry increase factory, Tradingetc		Touler vinage	
	Human conflict Ethnic, Administrativeetc			
	07-04 Other specimen	, IIII.		
	or-or-one specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
00		<u>/</u>		
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
L				
10	Current Water Coverage (%) (by water consumption at faucets)		30%	
I	(5m3*6PF+0.066m3*364HC+0.1m3*11BC)=55.1m3/day 55.1m3/20Lpcd.=2755persons 2	2755 persons/9	9163population=30%	
	Current Water Coverage (%) (by data of water source product))		??%	
	((??L+??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/9163population	n=??%		
11	Water Potential (A / B / C / D / E)		В	
L			T	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=No	t Approached	B/C	
	A=Road Width > $6m/B$ = >3~ $6m/C$ = 1 ~ $3m/D$ = <1 m			
	Access road is Asphalt & Sub grade 58km from Butajira. * Refer to Chapter 5 "Table 5-7: Co	ategories of a		
13	Manpower Capability of Water Supply Management by Water Office point)		10	
			1	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7			
	N W 0 1 D			
1 1 5	Novy Wotor Supply Dian			
15	New Water Supply Plan			
15	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		small town is on the	***************************************
15			small town is on the	
	The facility can be designed in an Ethiopian standard, whichis not required more advanced tec		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 arround water		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 arround water		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 arround water		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 arround wate Other Donors, NGO's	er sources.	e small town is on the	
16 17	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 Other Donors, NGO's Main Ethnic Group Health conditions	Silte		
16 17	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 Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center	Silte Frivate clin	nic, Drug store, Health P	os
16 17	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 Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center-2 Nearest other facilities from Town	Silte er, Private clin 48	nic, Drug store, Health P	os
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16 17	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 Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center-2 Nearest other facilities from Town	Silte Frivate clin 48 Mararia Typhoid	nic, Drug store, Health P 11,000 1,440	os
16 17	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 Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center-2 Nearest other facilities from Town	Silte er, Private clin 48 Mararia Typhoid Diarrheal	nic, Drug store, Health P 11,000 1,440 1,080	OS
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, however, construction works is required some ingenuities arround water 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	Silte er, Private clir 48 Mararia Typhoid Diarrheal Dysentery	nic, Drug store, Health P 11,000 1,440 1,080 720	Oosi
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 arround water Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Center-2 Nearest other facilities from Town	Silte er, Private clin 48 Mararia Typhoid Diarrheal	nic, Drug store, Health P 11,000 1,440 1,080 720	os
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 arround water 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	Silte er, Private clir 48 Mararia Typhoid Diarrheal Dysentery	nic, Drug store, Health P 11,000 1,440 1,080 720	OS
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, however, construction works is required some ingenuities arround water 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	Silte er, Private clir 48 Mararia Typhoid Diarrheal Dysentery	nic, Drug store, Health P 11,000 1,440 1,080 720	OS
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 arround water 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	Silte er, Private clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra	nic, Drug store, Health P 11,000 1,440 1,080 720 ade	
16 17 18	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, however, construction works is required some ingenuities arround water 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:	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate	nic, Drug store, Health P 11,000 1,440 1,080 720 nde	
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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 arround water Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Health Centeral Main patients of water born diseases Persons / year Main economic activities Main economic activities Particular comments: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks:	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	
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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 arround water 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: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks: The Water Committee does not even have own office, no written documents, they do not even established (the present Committee has been there for 2 years).	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	
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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 arround water Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town Health Centeral Nearest other facilities from Town Health Centeral Main patients of water born diseases Persons / year Main patients of water born diseases Persons / year Main economic activities Particular comments: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks: The Water Committee does not even have own office, no written documents, they do not even established (the present Committee has been there for 2 years). The Committee thas been there for 2 years.	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tee generally flat terrains, however, construction works is required some ingenuities arround water 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: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks: The Water Committee does not even have own office, no written documents, they do not even established (the present Committee has been there for 2 years). The Committee the present Committee has been there for 2 years. The Water Committee of the present Committee has been there for 2 years. The Water Committee of the present Committee has been there for 2 years. The Water Committee of the present Committee has been there for 2 years. The Water Committee of the present Committee has been there for 2 years. The Water Committee of the present Committee has been there for 2 years. The Water Committee of the present Committee has been there for 2 years.	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, however, construction works is required some ingenuities arround water 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: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks: The Water Committee does not even have own office, no written documents, they do not even established (the present Committee has been there for 2 years). The Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years).	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	
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16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, however, construction works is required some ingenuities arround water 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: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks: The Water Committee does not even have own office, no written documents, they do not even established (the present Committee has been there for 2 years). The Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years).	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	
16 17 18 19 20	The facility can be designed in an Ethiopian standard, whichis not required more advanced tegenerally flat terrains, however, construction works is required some ingenuities arround water 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: The watersupply facility has been relatively good managed by the Water office and this office private water connections. However, acknowredgement of the specifications of the facility of the Remarks: The Water Committee does not even have own office, no written documents, they do not even established (the present Committee has been there for 2 years). The Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years). The Water Committee of the present Committee has been there for 2 years).	Silte Frivate clir 48 Mararia Typhoid Diarrheal Dysentery Farming, Tra collects wate the sstaff is low	nic, Drug store, Health P 11,000 1,440 1,080 720 ade refee for public faucets a	

Data 7.3 Small Town Profile of SNNPRS

S-46 Tora



S-47 Mito

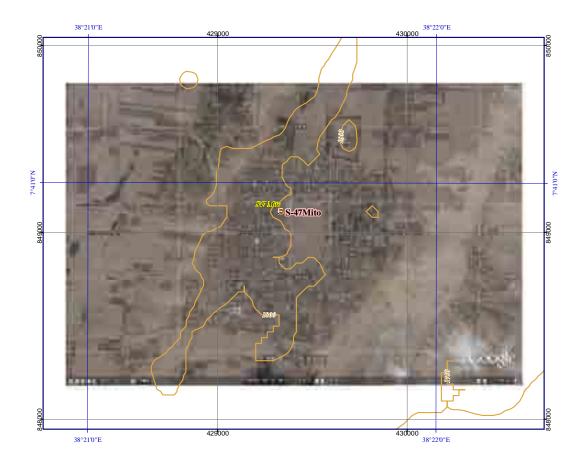
	SNNPR		37 / 52	
	Name of small town :	Mito	S- 47	
	Name of Woreda :	Lanifaro (Lanif	uro) SW- 33	1
	Name of Zone :	Silte	SZ- 08	1
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	1,714 1,563 3,277	
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	58,834 57,257 116,091 2.8%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	429240 848987 1,718	
	Town Status	Zaoting / Itorung / Inti	Municipality	
04	Water Source			
	04-01 Water source	Type, No.	Well 1no.	
	04-02 Well spec. D 04-03 Method of water draw	epth., Casing Dia., S.W.L, Yield Pump, Gravity	Pump	
	04-04 Pump Spec.	Type, Yield	Motorized pump	
	04-05 Power source for motorized pump	Type, Kva	Generator	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	17hrs.	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen			<u> </u>
0.5	Existing Water Supply Facilities			1
0.0	05-01 Established year	(Gregorian calendar)	1981	·
	05-02 Financial of implementation	Donor's name	SNNPR	
	05-03 Name of implementation (Project name)		Mito 01 kebele water supply project	
	05-04 Intake Type		Well 1no.	
	05-05 Intake No. 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	Disinfection, Ironetc.	nil.	
	05-09 Water treatment capacity	m3/day	nil.	
	05-10 Water reserver type	Туре	ER	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	1no. 38m3	
	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		
	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.	Mansonry	
	05-19 Number of faucet at a water point (Public Faucet, PF)	no.	4FC*3PF, 2FC*2PF	
	05-20 Average of daily water consumption at a water point (P		13m3/day	
	05-21 Number of House Connection (HC)	-	218	
	05-22 Average of daily water consumption of House Connection(House Connection)	C) m3/day	0.5m3/day (=16m3/30days)	
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC) Factory, Sch	nool, Gov. office, Hospitaletc.	6	
	05-25 Average of daily water consumption of Business Connection (B		2.7m3/day (=80m3/30days)	
	05-26 Other technical specimen	-/ ma/day	2.7113/day (=00113/30days)	
	•			
06	Operation and Maintenace			ļ
	06-01 Organization's name 06-02 Type of organization	Regional, Zone, Enterpriceetc.	Mito water development Community based organization	
	06-03 Number of thechnical staff	Regional, Zone, Enterpriceetc.	1	
	06-04 Principal works of technical staff		Pomp operation	
	06-05 Number of the financial staff		Not grasped	!
	06-06 Principal works of financial staff		Not grasped	!
		V.Point, House Connectionetc.		
	06-08 Water tariff rate Water point (Dublic forest)	Di/I 201	0.25hirr/20I	<u> </u>
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	0.25birr/20L Not grasped	!
	Business connection	Birr/m3	Not grasped	1
	06-09 Average monthly income by water tariff	Birr/month	28,000birr/month	†
	06-10 Procurement of spare parts at To	wn, Zonal Cap. Reg. Capetc.	Addis Ababa	1
	06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		
		al office, Private companyetc		
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by O	rganization, Gov., Donorsetc.	Generator broken Water committee	
	06-15 Other technical specimen	iganization, Gov., Donoisetc.	water committee	
	55 15 Galor technical specimen			†

S-47 Mito

	_ = = = = = = = = = = = = = = = = = = =				
07	Problem of actual town water supply				
	07-01 Technical				
	Water source Quantity,	Qualityetc.	Shortage wat	er	
	Water supply facility Decrepit, leakage, d	lesign failureetc	Design failur	e	<u> </u>
	07-02 Finalcial				
	Management		Cost of fule f	or ganarator	-
	Rate of water tarrif collection		low	or ganarator	
	Personnel expenses		Not grasped		!
	Shortage of budget to execute operation & maintenace				
	07-03 Other incidential, Special specimen		***************************************		
	Increase in population to consume water coming from other to			villagers	
	Change in industry increase factor	ory, Tradingetc	nil.		
	Human conflict Ethnic, Ac	lministrativeetc	nil.		!
	07-04 Other specimen				

08	Geographical condition (Slope on mountaion, bottom of valley, T	on of ridge etc.)		
00	Town is on the flat area	op of flage fileter.			
					·
					+
00	Necessary Institution (Facility, Material)				+
09					
	Refer to Chapter 4 "Table 4.7"				
I					
L					1
10	Current Water Coverage (%) (by water consumption at faucets)			285%	
I	(13m3*6PF+0.5m3*218HC+2.7m3*6BC)=203.2m3/day 203.2m3/20Lpcd.	=10,160persons	10,160person	s/3277population=285%	
I	Current Water Coverage (%) (by data of water source product))			?? %	
I		population=???%			
11	Water Potential (A / B / C / D / E)		I	В	1
l				-	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Or	nly Dry Season/F-Nor	Approached	C/C	1
12	A=Road Width $> 6m / B = 376m / C = 1$		Tipproactica	C/C	<u> </u>
			-1-1- 5 7. C-4-	::1::1: ₄ !!	
	Access road is Asphalt & Sub grade 68km from Butajira (=38+30km)* Ref		able 5-7: Cate		-
13	Manpower Capability of Water Supply Management by Water Office poin	t)		6	4
14	Dgree of urgency (A / B / C / D / E)				
	Refer to Chapter 5 & 7				
15	New Water Supply Plan				
					1
	The facility can be designed in an Ethiopian standard. The small town is on	the generally flat t	errains, howe	ver, construction works is	3
	required some ingenuities arround water sources.				ļ
16	Other Donors, NGO's				
10	Other Donors, 1700 b				·
					+
17	Main Educia Comm		C:14 -		+
1/	Main Ethnic Group		Silte		
18	Health conditions				
I	-1 Medical facilities in Town			r, Private clinic, Drug sto	re
I	-2 Nearest other facilities from Town km		50		
	-3 Main patients of water born diseases persons / y	/ear	Mararia	3,600	
19	Main economic activities		Trade, Farmi	ng	
1					<u> </u>
20	Particular comments :				
					†
I					-
21	Domosiles :				+
21	Remarks:	1.0		3.6.1	
I				or Mob. 0910040236,	
		e Geremew Land of		ob. 0910965332	1
	Mr. Mukta	ar Ahemed Mob. ()920972920		1
Men	no (Town sketchetc.):				
L				•	
	•				
					
	•				
ļ					

S-47 Mito



S-48 Dalocha

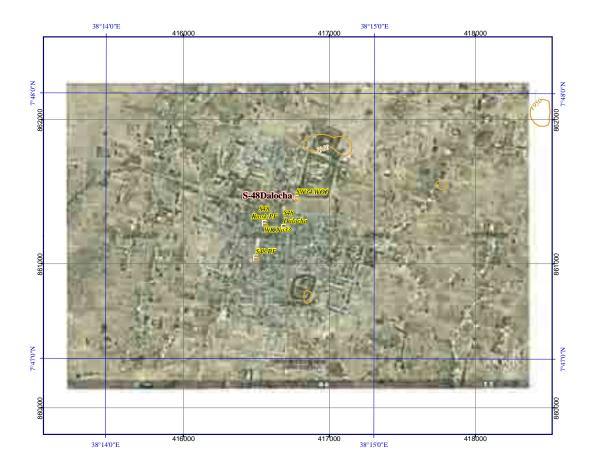
Name of Woreda : Dalocha S. 48 Name of Zone : Sitte S.2-08 11 Population		SNNPR		- 38 / 52	
Name of Zone Profile items		Name of small town :	Dalocha	S- 48	
Population		Name of Woreda :		SW- 34	
10 Population Town male / female / total by SNNPR 3.655 3.389 7.024		Name of Zone :	Silte	SZ- 08	
Town				Profile	!
20 Town Coordination	01	Town male / female / total Woreda male / female / total	-	45,069 44,963 90,032	
Mart Source Type, No. Spring*Ino. Spring*Ino. Sultant Source Type, No. Sultant Source Depth. Casing Dia, S.W.I. (4f. & & Livec. Dry Rainy season)			Easting / Northig / Alt.	,	
D4-D1 Water source Type, No. D4-D2 Will spee. Depth. Casing Dia, S.W.L. (41. & & Livee. Dry Rainy season)				Woreda Capital	
04-09 Well spec. Depth. Casing Dia, S.W.L. (41. & 84./sec. Dry / Rainy season)	04	<u> </u>	T N	C	
D4-03 Methor of water draw Pump, Gravity Pump D4-04 Pump D5-04-04 Pump D5-04-05 Power source Type, Kva Commercial Exc. + sanably generator 63kva D4-05 Power source Type, Kva Commercial Exc. + sanably generator 63kva D4-05 Power source Type, Kva Commercial Exc. + sanably generator 63kva D4-05 Water quality Iron, Fluorideetc. Fluoride (within WHO limit) D4-06 Other technical specimen Ino. Fluorideetc. Fluoride (within WHO limit) D4-06 Other technical specimen D5-06 Other Exchined specimen D5-07 Fluoride (within WHO limit) D5-07 Fluoride (within W					
O4-04 Pump Spec. Type, Kva Commercial Ext. + standy generator of Nava Commercial Ext. + standy generato		<u> </u>			
Out-05 Dever source Type, Kva Commercial Elex - standby generator (Shva 04-07 Water quality Iron, Fluorideetc. Fluoride (within WHO limit) Ot-08 Other technical specimen Iron, Fluorideetc. Fluoride (within WHO limit) Ot-08 Other technical specimen Iron, Fluorideetc. Fluoride (within WHO limit) Ot-08 Other technical specimen Iron, Fluorideetc. Fluoride (within WHO limit) Other Standburg Iron, Fluoride Iron, Fluorideetc. Fluoride (within WHO limit) Other Standburg Iron, Fluoride Iron, Fluoride Iron, Fluoride (within WHO limit) Iron, Fluoride			X		
O4-00 Durartion of water draw daily hours, time Ihr. Zhour "24hrs (Total 8hrs.)					
Desisting Water Supply Facilities Desisting Water Supply Facilities		04-06 Durartion of water draw		1hr./3hour *24hrs (Total 8hrs.)	
Sexisting Water Supply Facilities 05-01 Established year (Gregorian calendar) 1997 05-02 Financial of implementation Donor's name Action Aid (DWWDP) 05-03 Name of implementation Danocha Women Water Development Project 05-04 Intake No. 10-0. 05-05 Intake No. 10-0. 05-05 Intake No. 10-0. 05-05 Conveyance Type (Water source - Reservoir) Pipe material, length GIP, ND6', L=500m 05-07 Power to convey Pressure, Gravity Pressure 05-08 Water treatment capacity m3/day nil. 05-09 Water treatment capacity m3/day nil. 05-10 Water reserver type Type GR 05-11 Water reserver No. no. 10-0.		04-07 Water quality	Iron, Fluorideetc.	Fluoride (within WHO limit)	
05-01 Established year		04-08 Other technical specimen		nil.	
05-01 Established year	0 -				
O5-02 Financial of implementation Donor's name Action Aid (DWWDP)	05		(C	1007	·
O5-03 Name of implementation Dalochaw When Water Development Project		ļ,,,,,,,,,,,,,,,,,,			
O5-04 Intake Type O5-05 Intake No.			Donoi s name	```	
10. 05-96 Conveyance Type (Water source ~ Reservoir)					
OS-07 Power to convey				<u> </u>	
Distriction Pressure Pressure Distriction Pressure Distriction Pressure Distriction Distriction Pressure Distriction D			Pipe material, length	GIP, ND6", L=500m	
05-10 Water reserver type Type GR 05-11 Water reserver type Type GR 05-11 Water reserver No. no. lno. 05-12 Water reserver Capacity m3 300m3 05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length 05-14 Power to transmit 05-15 Distribution Type Pipe material, length 05-16 Power to distribute 05-16 Power 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 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) 05-21 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 06-01 Organization's name 06-02 Type of organization 06-04 Principal works of technical staff 06-04 Principal works of technical staff 06-05 Shumber of the Chinical staff 06-06 Principal works of financial staff 06-07 Categories of water tariff 06-08 Water tariff Tate 06-09 Average monthly income by water tariff 06-09 Average monthly income by water tariff 06-09 Average monthly income by water tariff 06-09 Average monthly income by water tariff 06-01 Procurement of spare parts 06-11 Principal works of service parts 06-12 Method in case of serious repair 06-12 Method in case of serious repair 06-14 Pinuel spare parts 06-16 Hunder of Spare parts 06-17 Pinuel spare parts 06-18 Pinuel parts 06-19 Pinuel parts 06-19 Pinuel parts 07 Pinuel parts 08 Pinuel parts 09 Pinuel part			Pressure, Gravity	Pressure	
OS-10 Water reserver type			Disinfection, Ironetc.	nil.	
D5-11 Water reserver No. no. no. no. no.					
05-12 Water reserver Capacity m3 300m3 05-13 Transmission Type (Booster pump Stn Reservoir) Pipe material, length GIP, ND4", L=4,000m 05-14 Power to transmit Pressure, Gravity 05-15 Distribution Type Pipe material, length See below memo 05-16 Power to distribute Pressure, Gravity Gravity 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, Pipe etc. Mansonry (Kiosk system) 05-18 Number of water point (Public Faucet, PF) no. 7nos. 7nos. 05-19 Number of faucet at a water point (Public Faucet, PF) no. 4nos. 05-20 Average of daily water consumption at a water point (PF) m3/day 0.5-21 Number of House Connection (HC) m3/day 0.067m3/day (131/c/d) 05-22 Average of daily water consumption of House Connection(HC) m3/day 0.067m3/day (131/c/d) 05-23 Average of daily water consumption of Business Connection (BC) m3/day 0.33m					
05-13 Transmission Type (Booster pump Stn. ~ Reservoir) Pipe material, length GIP, ND4", L=4,000m					
DS-14 Power to transmit Pressure, Gravity Gravity DS-15 Distribution Type Pipe material, length See below memo DS-16 Power to distribute Pressure, Gravity OS-17 Structure Type of water point (Public Faucet, PF) RC, Masonry, Pipeetc. Gravity OS-18 Number of water point (Public Faucet, PF) no. 7nos. OS-19 Number of faucet at a water point (Public Faucet, PF) no. 4nos. OS-20 Average of daily water consumption at a water point (PF) m3/day 7.5m3/day OS-21 Number of House Connection (HC) 380 OS-22 Number of Bussiness Connection (BC) Sa Sa Sa Sa Sa Sa Sa S					
D5-15 Distribution Type					
O5-16 Power to distribute Pressure, Gravity O5-17 Structure Type of water point (Public Faucet, PF) RC, Masonry; Masonry (Kiosk system)		<u></u>			
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06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donorsetc. above organization, NGO, Region		06-11 Principal spare parts Oil			
06-14 Fund for above 6-09, 6-10 by Organization, Gov., Donorsetc. above organization, NGO, Region			office, Private companyetc		
			mization Gov Danors ata		
or 10 care terminal appendix		<u></u>	zation, Gov., Dollorsetc.	acove organization, 1100, Region	

S-48 Dalocha

07	D			
	Problem of actual town water supply 07-01 Technical			
	Water source	Quantity, Qualityetc.	Nood Copera	te Reservoir,additional ne
	Water supply facility	Decrepit, leakage, design failureetc.		
	07-02 Finalcial	Decrepit, leakage, design fandreetc	WOLK & Publ	ic water points
	Management			
	<u> </u>			
	Rate of water tarrif collection			
	Personnel expenses	•		
	Shortage of budget to execute operation & n	naintenace		
	07-03 Other incidential, Special specimen		.	
	Increase in population to consume water	coming from other towns, villagesetc		ıcrease
	Change in industry			
	Human conflict	Ethnic, Administrativeetc	nil.	
	07-04 Other technical specimen			
98	Geographical condition (Slope on mount	taion, bottom of valley, Top of ridgeetc.)	
)9	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			
				T
	Current Water Coverage (%) (by water consumption			69%
	(7.5m3*7PF+0.067m3*380HC+0.333m3*58BC)=		ns 4,865per	
	Current Water Coverage (%) (by data of water sou			369%
	((6L)*3600sec.*24hrs)=518400L/day 518400/20I	Lcd=25920persos 25920persons/7024pc	opulation=369	
1	Water Potential (A / B / C / D / E)			В
12		se Course/C=Sub Grade/D=Only Dry Season/E=Not	t Approached	C / B
		$1 > 6m / B = > 3 \sim 6m / C = 1 \sim 3m / D = < 1m$		
	Access road is Asphalt & Sub grade 48km from Bu	ntajira (=38+10km) * Refer to Chapter 5 "Ta	able 5-7: Cate	gories of accessibility"
3	Manpower Capability of Water Supply Manageme	nt by Water Office (point)		16
4	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & /			
	Refer to Chapter 5 & 7 New Water Supply Plan			
15	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction Other Donors, NGO's			-
15	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction			-
15	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction Other Donors, NGO's			-
15 16	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction Other Donors, NGO's Action Aid		and water sour	-
15 16	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction Other Donors, NGO's Action Aid		and water sour	-
.5	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction Other Donors, NGO's Action Aid Main Ethnic Group		silte	-
15	New Water Supply Plan The facility can be designed in an Ethiopian standa Fluoride. The small town is on the hills, construction Other Donors, NGO's Action Aid Main Ethnic Group Health conditions		silte	er, Private clinic, Drug sto
15	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Center	er, Private clinic, Drug sto
15 16	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Center 50	er, Private clinic, Drug sto
15 16	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Center 50 Mararia	er, Private clinic, Drug sto
15	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Cente 50 Mararia Dysentery	er, Private clinic, Drug sto
5 6 7 8	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Center 50 Mararia Dysentery Typhoid other	er, Private clinic, Drug sto 20,898 1,362 740
15	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Center 50 Mararia Dysentery Typhoid other	er, Private clinic, Drug sto 20,898 1,362 740 1,744
15 16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standa 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	on works is required some ingenuities arrou	Silte Health Center 50 Mararia Dysentery Typhoid other	er, Private clinic, Drug sto 20,898 1,362 740 1,744
15 16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities	km persons / year	Silte Health Cente 50 Mararia Dysentery Typhoid other Trade, Lives	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming
15 16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area.	km persons / year	Silte Health Cente 50 Mararia Dysentery Typhoid other Trade, Lives	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good
15 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Cente 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good
5 6 7 8	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area.	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
5 6 7 8	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good
5 6 7 8	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks:	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
115 116 117 118 119 120	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coording to (Town sketchetc.):	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
115 116 117 118 119 220	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coording (Town sketchetc.):	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
115 116 117 118 119 220	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coordinator (Town sketchetc.): 105-15 Distribution Type GIP ND=2*1/2" 1,000m GIP NG=1*1/2"	km persons / year ey, this area has higher effects Fluoride. The mator, Action Aid)	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
115 116 117 118 119 120	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coording (Town sketchetc.):	km persons / year ey, this area has higher effects Fluoride. The	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
115 116 117 118 119 220	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coordinator (Town sketchetc.): 105-15 Distribution Type GIP ND=2*1/2" 1,000m GIP NG=1*1/2"	km persons / year ey, this area has higher effects Fluoride. The mator, Action Aid)	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is d Ato Eyasu K Ato Dereje M	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
115 116 117 118 119 220	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coordington (Town sketchetc.): 05-15 Distribution Type GIP ND=2*1/2" 1,000m GIP NG=1*1/2 GIP ND=2" 2,000m	km persons / year ey, this area has higher effects Fluoride. The mator, Action Aid) "3,000m Total 6,000m	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is described Ato Eyasu K Ato Dereje M Ato Sheyich E	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
15 16 17 18 19 20	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coordington (Town sketchetc.): 105-15 Distribution Type GIP ND=2*1/2" 1,000m GIP NG=1*1/2 GIP ND=2*2,000m	km persons / year ey, this area has higher effects Fluoride. The mator, Action Aid) "3,000m Total 6,000m	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is described Ato Eyasu K Ato Dereje M Ato Sheyich E	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671
15 16 17 18	New Water Supply Plan The facility can be designed in an Ethiopian standa 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 Main economic activities Particular comments: In accordance with the result of water quality survey water quality around this area. Remarks: Interviewee: Mr Shita Mohammed Project Coordington (Town sketchetc.): 05-15 Distribution Type GIP ND=2*1/2" 1,000m GIP NG=1*1/2 GIP ND=2" 2,000m	km persons / year ey, this area has higher effects Fluoride. The mator, Action Aid) "3,000m Total 6,000m	Silte Health Center 50 Mararia Dysentery Typhoid other Trade, Lives erefore, it is described Ato Eyasu K Ato Dereje M Ato Sheyich E	er, Private clinic, Drug sto 20,898 1,362 740 1,744 tock, Farming ifficult to develop good ergeba Mamo Mobile 091611671 Delgeba Mobile 0916839863

Data 7.3 Small Town Profile of SNNPRS

S-48 Dalocha



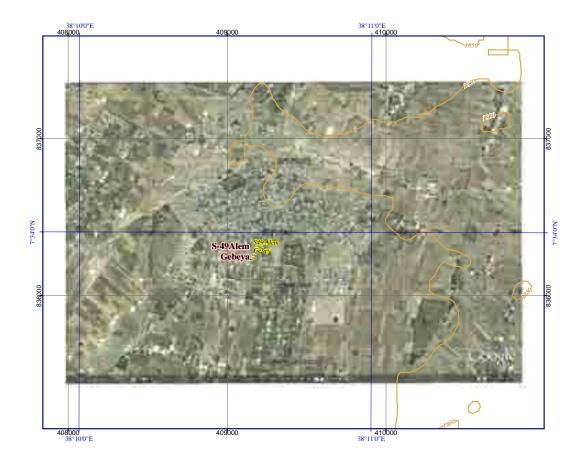
S-49 Alem Gebeya

Name of Small town	
Name of Zone Silte SZ-	08
Profile items	
Population	!
Town male / female / total by SNNPR 2,018 1,638 Woreda male / female / total by Census 2007 42,459 42,248 Percentage of Town in Woreda Woreda Female / total by Census 2007 42,459 42,248 Female / total by Census 2007 42,459 42,248 Female / total Pemale / total by Census 2007 42,459 42,248 Female / total Female / total by Census 2007 42,459 42,248 Female / total Female / total by Census 2007 42,459 42,248 Female / total Fem	
Woreda male / female / total by Census 2007 42,459 42,248	
Depth. Casing Dia., S.W.L. Yield GL=168m, 6*5/8", GL-?? O4-01 Water draw O4-04 Pump Spec. O4-04 Pump Spec. O4-05 Town Stew O4-05 Town Stew O4-05 Town Stew O4-06 Well spec. O4-06 Well	3,656
02 Town Coordination UTM (Adindan) Easting / Northig / Alt. 409074 836119 03 Town Status Municipality 04 Water Source Type, No. Well*Ino. 04-01 Water source Type, No. Well*Ino. 04-02 Well spec. Depth., Casing Dia., S.W.L, Yield GL=168m, 6*5/8", GL-?? 04-03 Method of water draw Pump, Gravity Pump 04-04 Pump Spec. Type, Yield Motorized pump (15kw)	84,707
03 Town Status Municipality 04 Water Source Use of the control of the cont	4.3% 1,718
04-01 Water sourceType, No.Well*1no.04-02 Well spec.Depth., Casing Dia., S.W.L, YieldGL=168m, 6*5/8", GL-??04-03 Method of water drawPump, GravityPump04-04 Pump Spec.Type, YieldMotorized pump (15kw)	1,710
04-02 Well spec. Depth., Casing Dia., S.W.L, Yield GL=168m, 6*5/8", GL-??: 04-03 Method of water draw Pump, Gravity Pump 04-04 Pump Spec. Type, Yield Motorized pump (15kw)	
04-03 Method of water draw Pump, Gravity Pump 04-04 Pump Spec. Type, Yield Motorized pump (15kw)	
04-04 Pump Spec. Type, Yield Motorized pump (15kw)	m, ??L/sec.
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	
05-01 Established year (Gregorian calendar) 2003	
05-02 Financial of implementation Donor's name SNNPR	
05-03 Name of implementation (Project name) Alem Gebeya town water s	upply project
05-04 Intake Type Well	
05-05 Intake No. Ino. 05-06 Conveyance Type (Water source ~ Reservoir) Pipe material, length GIP, 2*1/2**1,000m, 2**300m (Total 1 200m)
05-07 Power to convey O5-07 Power to convey Pressure Pressure Pressure Pressure	Total 1,200III)
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 8m3*2nos.	
05-12 Water reserver Capacity m3 8m3*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 PVC, 3", 900m	
05-16 Power to distribute Pressure, Gravity Gravity	
05-17 Structure Type of water point (Public Faucet, PF) RC, Masonry, Pipeetc. Monsonry	
05-18 Number of water point (Public Faucet, PF) no. 5 05-19 Number of faucet at a water point (Public Faucet, PF) no. 6	
05-19 Number of raucet at a water point (Public raucet, PF) no. 05-20 Average of daily water consumption at a water point (PF) m3/day 1.4m3/day	
05-21 Number of House Connection (HC)	
05-22 Average of daily water consumption of House Connection(HC) m3/day 0.94m3/day	
05-23 Number of Business Conection (BC) 7	
05-24 Type of Business Connection (BC) Factory, School, Gov. office, Hospitaletc. Gov., School, Mosque, Ch	nurch
05-25 Average of daily water consumption of Business Connection (BC) m3/day 1.36m3/day 05-26 Other technical specimen	
05-20 Other technical specimen	
06 Operation and Maintenace	
06-01 Organization's name Water committee	
06-02 Type of organization Regional, Zone, Enterpriceetc Community based organiz	ation
06-03 Number of thechnical staff 1 06-04 Principal works of technical staff Pump operation	
06-05 Number of the financial staff 6	
06-06 Principal works of financial staff Water meter read, Bill, Water meter	ater sale
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 0.2birr/20L	
House connection Birr/m3 5.0birr/m3 Business connection Birr/m3 Free	
Business connection Birt/m3 Free 06-09 Average monthly income by water tariff Birt/month 23,740birt/month	
06-10 Procurement of spare parts at Town, Zonal Cap. Reg. Capetc. Awasa	
06-11 Principal spare parts Oil filter, Fuel filter, Pipesetc Pipes&fittings	
06-12 Method in case of serious repair by Regional office, Private companyetc Woreda, Zone, Region	
06-13 Principal serious repair with 5-10 years Not grasped	

S-49 Alem Gebeya

07-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comin Change in industry Human conflict 07-04 Other specimen	Quantity, Qualityetc. crepit, leakage, design failure ee g from other towns, villages increase factory, Trading Ethnic, Administrative ttom of valley, Top of ridgee	Not grasped Not grasped Not grasped Not grasped Not grasped etc Increase villa etc nil.		e
Water source Water supply facility Dec 07-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comir Change in industry Human conflict 07-04 Other specimen 08 Geographical condition (Slope on mountaion, bot Town is on flat area	repit, leakage, design failure re ge g from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped Not grasped Not grasped Not grasped Not grasped Not grasped Letc Increase villa etc nil.		e
Water supply facility 07-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comir Change in industry Human conflict 07-04 Other specimen 08 Geographical condition (Slope on mountaion, bot Town is on flat area	repit, leakage, design failure re ge g from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped Not grasped Not grasped Not grasped Not grasped Not grasped Letc Increase villa etc nil.		e
07-02 Finalcial Management Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comir Change in industry Human conflict 07-04 Other specimen O8 Geographical condition (Slope on mountaion, bot Town is on flat area	ng from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped Not grasped Not grasped Not grasped Not grasped etc Increase villa etc nil.		e
Management Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comir Change in industry Human conflict 07-04 Other specimen OB Geographical condition (Slope on mountaion, bot Town is on flat area	ng from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped Not grasped Not grasped Not grasped .etc Increase villa etc niletc nil.	gers, school, Gov.office	e
Rate of water tarrif collection Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comin Change in industry Human conflict 07-04 Other specimen Oscillatory Geographical condition Town is on flat area Oscillatory Necessary Institution (Facility, Material)	ng from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped Not grasped Not grasped Not grasped .etc Increase villa etc niletc nil.	gers, school, Gov.offic	e
Personnel expenses Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comir Change in industry Human conflict 07-04 Other specimen Office (Slope on mountaion, both Town is on flat area) Necessary Institution (Facility, Material)	ng from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped Not grasped etc Increase villa etc nil. etc nil.	gers, school, Gov.offic	e
Shortage of budget to execute operation & maintenac 07-03 Other incidential, Special specimen Increase in population to consume water comin Change in industry Human conflict 07-04 Other specimen OR Geographical condition (Slope on mountaion, both Town is on flat area OR Necessary Institution (Facility, Material)	ng from other towns, villages increase factory, Trading Ethnic, Administrative	Not grasped etc Increase villa etc nil. etc nil.	gers, school, Gov.office	e
07-03 Other incidential, Special specimen Increase in population to consume water comin Change in industry Human conflict 07-04 Other specimen Or Geographical condition Town is on flat area Or Necessary Institution (Facility, Material)	ng from other towns, villages increase factory, Trading Ethnic, Administrative	etc Increase villa etc nil. etc nil.	gers, school, Gov.offic	e
Increase in population to consume water comin Change in industry Human conflict 07-04 Other specimen OB Geographical condition (Slope on mountaion, both Town is on flat area OB Necessary Institution (Facility, Material)	increase factory, Trading Ethnic, Administrative	etc.nil. .etc nil.	gers, school, Gov.offic	e
Change in industry Human conflict 07-04 Other specimen 8 Geographical condition (Slope on mountaion, both Town is on flat area 9 Necessary Institution (Facility, Material)	increase factory, Trading Ethnic, Administrative	etc.nil. .etc nil.	gers, school, Gov.onic	-
Human conflict 07-04 Other specimen OS Geographical condition (Slope on mountaion, bot Town is on flat area OS Necessary Institution (Facility, Material)	Ethnic, Administrative	.etc nil.		
07-04 Other specimen 08 Geographical condition (Slope on mountaion, both Town is on flat area) 09 Necessary Institution (Facility, Material)				
08 Geographical condition (Slope on mountaion, bot Town is on flat area 09 Necessary Institution (Facility, Material)	ttom of valley, Top of ridgee	etc.)		
Town is on flat area 9 Necessary Institution (Facility, Material)	ttom of valley, Top of ridge6	etc.)		
Town is on flat area O9 Necessary Institution (Facility, Material)	ttom of valley, 1 op of hagee	etc.)		_
09 Necessary Institution (Facility, Material)				
				_
Refer to Chapter 4 Table 4.7				
10 Current Water Coverage (%) (by water consumption at fau	cats)	1	163%	٠,
(1.4m3*5PF+0.94m3*109HC+1.36m3*7BC)=118.98m3/day 1		s 5.949persons / 3		
Current Water Coverage (%) (by data of water source productions)		5 5,545pc(SOHS /)	27. %?? %????????????????????????????????	,
	???persons/3656population=??	20/	: : 70	-
((//L)*3600sec.*8nrs)=??/L/day ???/20Lcd=???persos 11 Water Potential (A / B / C / D / E)	:::persons/3030population=??	£ 70	В	
11 Water Potential (A/D/C/D/E)			D	-
12 Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/G	C=Sub Grade/D=Only Dry Season/E=	-Not Approached	B / B	
	$B = 3 \sim 6 \text{m} / C = 1 \sim 3 \text{m} / D = <1 \text{m}$	^ ^	B / B	
Access road is Asphalt & Sub grade 46km from Hosaina. (tagories of accessibility	,"
1 5		5 1 aute 3-7. Cal	o accessibility	_
Manpower Capability of Water Supply Management by Wa	ici Office point)	L	9	
14 D		1		_
Dgree of urgency (A / B / C / D / E)				_
Refer to Chapter 5 & 7				
generally flat terrains, however, construction works is requi necessary to repair and maintenance, however, water source (16) Other Donors, NGO's	ē		0 1 1	
EU&Christian Aid				
17 M : E4 : C		C'l. A 1		
17 Main Ethnic Group		Silte, Amhara		
10 II ld 12			l .	
18 Health conditions			l	
		H. W. C.		
-1 Medical facilities in Town	1		r, Private clinic, Health	post
-1 Medical facilities in Town-2 Nearest other facilities from Town	km	76	r, Private clinic, Health	post
-1 Medical facilities in Town	km persons / year	76 Mararia	r, Private clinic, Health	post
-1 Medical facilities in Town -2 Nearest other facilities from Town	······	76 Mararia Typhoid	r, Private clinic, Health 4,888 150	post
-1 Medical facilities in Town -2 Nearest other facilities from Town	······	76 Mararia Typhoid Diarrhea	r, Private clinic, Health 4,888 150 40	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	······	76 Mararia Typhoid Diarrhea Dysentery	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases	······	76 Mararia Typhoid Diarrhea	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities	······	76 Mararia Typhoid Diarrhea Dysentery	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities	······	76 Mararia Typhoid Diarrhea Dysentery	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities	······	76 Mararia Typhoid Diarrhea Dysentery	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities	······	76 Mararia Typhoid Diarrhea Dysentery	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	······	76 Mararia Typhoid Diarrhea Dysentery	r, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	1, Private clinic, Health 4,888 150 40 10	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng	post
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 9 Main economic activities Particular comments:	persons / year Mr. Sefedin Kedir Wored	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 9 Main economic activities 10 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 9 Main economic activities Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 9 Main economic activities Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	
-1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases 19 Main economic activities 20 Particular comments:	persons / year Mr. Sefedin Kedir Wored Mr. Ashenafi Shegadi Ele	76 Mararia Typhoid Diarrhea Dysentery Trade, Farmin	4,888 150 40 10 ng ad, Mob.0913743051 0.0910063745	

S-49 Alem Gebeya



S-51 Mazoria

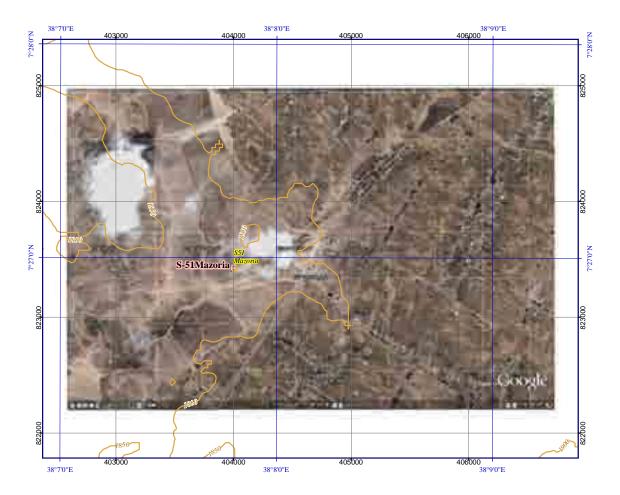
	SNNPR				40 / 52	
	Name of small town	:	Mazo	ria	S- 51	
	Name of Woreda	•	Sankı	ura	SW- 35	
	Name of Zone	:	Silt	9	SZ- 08	
		Profile items			Profile	!
01	Population					
	Town	male / female / total	by SNNPR	1,294	1,436	2,730
	Woreda	male / female / total	by Census 2007	42,459	42,248	84,707
02	percentage of Town in Wore Town Coordination	uTM (Adindan)	Facting / Nouthin	/ A1t 402011	922209	3.2% 1,829
	Town Coordination Town Status	UTM (Adindan)	Easting / Northig	/ Alt. 403911 Kebere Association	823298	1,829
	Water Source			Tree ere i issoemie.	•	
	04-01 Water source		Type, No.	Well *1no.		
	04-02 Well spec.		Depth., Casing Dia., S.W.L,		GK-??m, 2.5L/se	c
	04-03 Method of water draw 04-04 Pump Spec.		Pump, Gravity Type, Yield	Pump Motorized pump		
	04-04 Pullip Spec. 04-05 Power source for motorized	numn	Type, Field Type, Kva	Commercial elec.		
	04-06 Durartion of water draw (Op	A	daily hours, time	08:00-08:26, 15:00)-15:26 (52min./d	ay) !
	04-07 Water quality		Iron, Fluorideetc.	Good		
	04-08 Other technical specimen					
0.5	Division Williams					
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 (Pr		Donor's name	Redina water supp	ly project	
	05-04 Intake Type	<u> </u>		Well		
	05-05 Intake No.			lno.		
	05-06 Conveyance Type (Water so	urce ~ Reservoir)	Pipe material, length	GIP, 2", 700m		
	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	ER		
	05-11 Water reserver No.		no.	lno.		
	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	ot (Dublic Foundt DE)	Pressure, Gravity RC, Masonry, Pipe	Gravity		
	05-17 Structure Type of water point (Publication of Structure Type of water point (Publication of Structure Type of Water Publication of Structure Type of Water Publication of Structure Type of Water Publication of Water Pu		no.	4 (2 function)		
	05-19 Number of faucet at a water			6		
	05-20 Average of daily water const			3.8m3/day		
	05-21 Number of House Connection		•	nil.		
	05-22 Average of daily water consum		(HC) m3/day	nil.		
	05-23 Number of Business Conecti			nil.		
	05-24 Type of Business Connection 05-25 Average of daily water consumpt		School, Gov. office, Hospital			
	05-26 Other technical specimen	non of Dusiness Connection	(BC) m3/day	nil.		
	25 Saler teermear specimen					
06	Operation and Maintenace					
	06-01 Organization's name			Mazoria watger su		
	06-02 Type of organization		Regional, Zone, Enterprice.	etc Community based	organization	
	06-03 Number of thechnical staff 06-04 Principal works of technical	etaff		Pump operation		
	06-05 Number of the financial staff			2		
	06-06 Principal works of financial			Wate sale		
	06-07 Categories of water tariff		W.Point, House Connection			
	06-08 Water tariff rate					
	Water point (Public faucet)		Birr/L, 20L	0.3birr/20L		
	House connection Business connection		Birr/m3	nil.		
	06-09 Average monthly income by	water tariff	Birr/m3 Birr/month	3,250birr/month		
	06-10 Procurement of spare parts		Town, Zonal Cap. Reg. Cap			
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipes .			
	06-12 Method in case of serious re	pair by Reg	ional office, Private company.			
	06-13 Principal serious repair with			nil.		
	06-14 Fund for above 6-09, 6-10	by	Organization, Gov., Donors	.etc. Donors		
	06-15 Other technical specimen					
I						

S-51 Mazoria

07						1
	Problem of actual town water supply 07-01 Technical					-
		Quality etc	Water shortage			ļ
	Water supply facility Decrepit, leakage, desig	n failure etc	Design failure	Tank canacit	tv)	
	07-02 Finalcial	ii ianuicetc	Design randre	(Tunk cupuch	-31	
	Management					†
	Rate of water tarrif collection		Not grasped			
	Personnel expenses		low			
	Shortage of budget to execute operation & maintenace		Shortage budg	et for O&M		
	07-03 Other incidential, Special specimen					ļ
	Increase in population to consume water coming from other towns	, villagesetc	nil.			
	Change in industry increase factory,					ļ
		nistrativeetc	n11.			-
	07-04 Other specimen					
08	Geographical condition (Slope on mountaion, bottom of valley, Top	of ridge etc.)				
	Town is on the flat area.					
09	Necessary Institution (Facility, Material)					
	Duration of pump operation may be extended to 8 hours.					
	Refer to Chapter 4 "Table 4.7"					ļ
10	Cymnont Water Coverage (IV) (by water				1.40/	1
10	Current Water Coverage (%) (by water consumption at faucets) [3.8m3*2PF+0m3*0HC+0m3*0BC)=7.60m3/day 7.60m3/20Lpcd.= 380pers	one 380marca	ns / 2 730 non	lation = 140/	14%	
	Current Water Coverage (%) (by data of water source product))	no poopersor	/ 2,/30 popu	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	132%	!
	<u> </u>	ıs/2730populati	ion=131%		102/0	 •
11	Water Potential $(A/B/C/D/E)$, 2 7. горорина.	10170		A	
				L		
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only		Not Approached		B / B	
	A=Road Width > 6m /B= >3~6m / C= 1~31					
	Access is Asphalt & Sub grade road from Hosaina. (=28+20km) * Refer to Ch	apter 5 "Table	5-7: Categories	of accessibili		
13	Manpower Capability of Water Supply Management by Water Office point)				6	
1.4	D (((D (D (D (D)			ı		
14	Dgree of urgency (A / B / C / D / E) Refer to Chapter 5 & 7					-
	Refer to Chapter 3 & 7					-
15	New Water Supply Plan					
		1 1.			.1 11 01	
	The facility can be designed in an Ethiopian standard, which is not required mor terrains, however, construction works is required some ingenuities arround water		hnology. The si	mall town is o	on the generally fla	1 t
	terrains, nowever, construction works is required some ingenuities arround water	er sources.				
16						
	EU&Christian Aid					
17	Main Edwin Comm		C:14-			
1 /	Main Ethnic Group		Silte			
18	Health conditions					
10	-1 Medical facilities in Town		Health post			†
	-2 Nearest other facilities from Town km		70)		
	-3 Main patients of water born diseases persons / year		Mararia	1,000		
			Diarrhea	900		
			Dysentery	400		
- 10			Typhoid	314		
19	Main economic activities		Trade, Farming	g, Livestock		ļ
20	Particular comments :					
20	Current operation time is less than 1 hour.					
	Current operation time is less than I nour.					
21	Remarks:					
21		rgicho Resedar	nt Mob. 091612	22069		
21	Mr. Bilcha Ba Mr. Mohamm	ed Haji Kemal	Water committ		Mob. 0920988591	l l
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	. <u> </u>	Water committ		Mob. 0920988591	l
	Mr. Bilcha Ba Mr. Mohamm	ed Haji Kemal	Water committ		Mob. 0920988591	I I
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	l
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	
	Mr. Bilcha Ba Mr. Mohamm Mr. Lalamo Y	ed Haji Kemal	Water committ		Mob. 0920988591	

Data 7.3 Small Town Profile of SNNPRS

S-51 Mazoria



S-52 Bilbareg

	SNNPR				41 / 52	
	Name of small town	-	Bilbareg (Wilba	areg)	S- 52	
	Name of Woreda		Wilbareg		SW- 36	
	Name of Zone	:	Silte		SZ- 08	
		Profile items		P	rofile	!
01	Population					
	Town	male / female / total	by SNNPR	1,146	1,051 2,1	
	Woreda	male / female / total	by Census 2007	38,282	41,689 79,9	
02	percentage of Town in Wor		E C /N d: /Ak	402210	2.7	
_	Town Coordination Town Status	UTM (Adindan)	Easting / Northig / Alt.	403219 Woreda Capital	855693 2,0	04
	Water Source			Woreda Capitai		-
٠.	04-01 Water source		Type, No.	Well*1no.		
	04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield	GL-92m, 6:5/8",	GL-26m, 1.2L/sec.	
	04-03 Method of water draw		Pump, Gravity	Pump		
	04-04 Pump Spec.		Type, Yield	Mono-lift-Pump		
	04-05 Power source for motorized		Type, Kva	Single sylinder D		
	04-06 Durartion of water draw (O	peration hours)	daily hours, time		:30, 17:00~19:00 (6hrs./da	ay)
	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)	1983		1
	05-02 Financial of implementation	1	Donor's name	Kale Hiwot Chrc	h	
	05-03 Name of implementation (P	roject name)			Vater Supply Proje	ct
	05-04 Intake Type			Well		
	05-05 Intake No.		D	1 no.		
	05-06 Conveyance Type (Water section 05-07 Power to convey	ource ~ Reservoir)	Pipe material, length Pressure, Gravity	GIP, ??", 220m Pressure		
	05-08 Water treatment		Disinfection, Ironetc.	nil.		
	05-09 Water treatment capacity		m3/day	nil.		
	05-10 Water reserver type		Type	ER, Steel Tank		
	05-11 Water reserver No.		no.	lno.		
	05-12 Water reserver Capacity		m3	8.0m3		
	05-13 Transmission Type (Booste	r pump Stn. ~ Reservoir)	Pipe material, length	nil.		
	05-14 Power to transmit		Pressure, Gravity	nil.	1 /0114/2000	
	05-15 Distribution Type 05-16 Power to distribute		Pipe material, length	GIP, 2"*30m, 1*	1/2"*200m	
	05-17 Structure Type of water poi	nt (Public Faucat PF)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity		
	05-18 Number of water point (Pub		no.	2 nos. (1/2 is not	functioned)	
	05-19 Number of faucet at a water			6	raneuronea,	
	05-20 Average of daily water cons			4m3/day		
	05-21 Number of House Connecti			15		
	05-22 Average of daily water consun		HC) m3/day	2.0m3/day		
	05-23 Number of Business Conec			1		
	05-24 Type of Business Connection		chool, Gov. office, Hospitaletc		fice)	
	05-25 Average of daily water consump	otion of Business Connection ((BC) m3/day	0.1m3/day		
	05-26 Other technical specimen					
06	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 technica			Pump operation,	Water me	
	06-05 Number of the financial sta			1		
	06-06 Principal works of financial 06-07 Categories of water tariff		W Doint House Com	Bill W. Point, House	aannaati	-
	06-07 Categories of water tariff 06-08 Water tariff rate		W.Point, House Connectionetc.	w. roint, House	COMPCH(
	Water point (Public faucet)		Birr/L, 20L	0.15birr/20L		
	House connection		Birr/m3	4.50birr/m3		
	Business connection	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Birr/m3	ditto		
	06-09 Average monthly income by		Birr/month	3,000birr/month		
	06-10 Procurement of spare parts	at T	own, Zonal Cap. Reg. Capetc.			
	06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc			
	06-12 Method in case of serious re		onal office, Private companyetc			
	06-13 Principal serious repair with 06-14 Fund for above 6-09, 6-10		Organization, Gov., Donorsetc.	Woreda, Zone, R	egion	
	06-15 Other technical specimen	ру	Organization, Gov., Donorsetc	Municipality		
	55 15 Oner termied specimen			unicipanty		

S-52 Bilbareg

	Data 1.5 Small Town Frome of Six	141 173		
07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Watger short		_
	Water supply facility Decrepit, leakage, design failureetc	Design failu	re (Pipe lines)	
	07-02 Finalcial			
	Management	G1		
	Rate of water tarrif collection	Shortage of	staff	
	Personnel expenses	low	1 1 . 6 . 00 16	
	Shortage of budget to execute operation & maintenace	Shortage of	budget for O&M	
	07-03 Other incidential, Special specimen			-
	Increase in population to consume water coming from other towns, villagesetc		i population	
	Change in industry increase factory, Tradingetc.			
	Human conflict Ethnic, Administrativeetc	,n11.		
	07-04 Other specimen	***************************************		
US	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	<u> </u>		+
08	South of mountain range slopping flat land)		
	South of mountain range stopping that tand			
09	Necessary Institution (Facility, Material)			
0)	Refer to Chapter 4 "Table 4.7"			
	Total to Chapter 1 Tubic 1.7			
				
10	Current Water Coverage (%) (by water consumption at faucets)		78%	1
_	(4m3*1PF+2m3*15HC+0.1m3*1BC)=34.1m3/day 34.1m3/20Lpcd.= 1,705persons 1,705p	persons / 2, 19		
	Current Water Coverage (%) (by data of water source product))		79%	1
	((1.2L)*3600sec.*8hrs)=34560L/day 345600/20Lcd=1728persos 1728persons/2197popula	tion=79%		
11			В	
	· · · · · · · · · · · · · · · · · · ·			
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached	A/C	
	A=Road Width > $6m / B = 3 - 6m / C = 1 - 3m / D = <1m$			
	Access road is asphalt paved 53km from Butajira. * Refer to Chapter 5 "Table 5-7: Categories	of accessibil	lity"	
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			
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 hill	c
	construction works is required some ingenuities.	miology. The	Sinan town is on the inn	
16	Other Donors, NGO's			
	EU&Christian Aid "Wulbareg and Snakura Waredas Water Supply, Health and Environ	nmental Deve	elopment Project"	
1.7	Jan 2008 ~ Dec. 2010	0.1		
1 /	Main Ethnic Group	Silte		
10	TI-dal dal			-
18	Health conditions -1 Medical facilities in Town	Hltl- Ct-	D-:	
			er, Private clinic	
	-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year	Mararia	4,269	
	5 Frank patients of water both diseases persons / year	Typhoid	3,396	
		Dysentery	3,244	
		Diarrhea	2,986	
			3,931	
10		Dysentery		_
19	Main economic activities	Trade, Farm	ıng, Wavıng	
20	Destination and the second sec			-
20	Particular comments :			_
21	Demontos Valanti Caid Water and in City	Mak!1 001	16245746	-
41	Remarks: Yekesi Said Water committee Chaiman Muharik Nasir Worada water off Mashnia	Mobile: 091		
	Mubarik Nasir Woreda water off. Mechnic	Mobile: 091		
	Shemsu Sultan Minning expert	Mobile :- 09	10037004	
Man	no (Town sketchetc.):			+
1VICII	io (Town sketchetc.).	1	I I	
	•			

Data 7.3 Small Town Profile of SNNPRS

S-52 Bilbareg



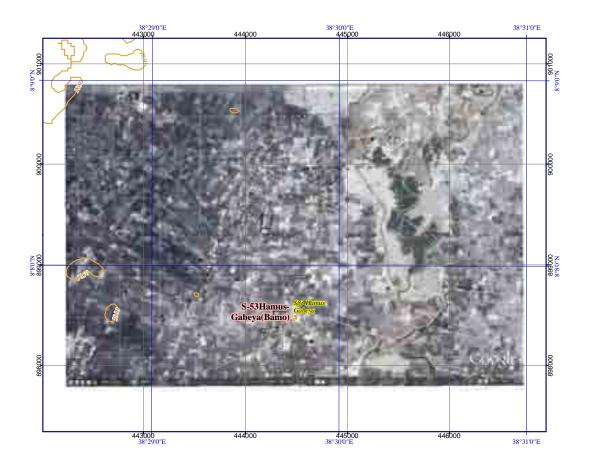
S-53 H. Gebeya

	SNNPR		42 / 52	
	Name of small town :	Hamus Gabeya (Bamo) S- 53	
	Name of Woreda :	Meskan	SW- 02	
	Name of Zone :	Gurage	SZ- 01	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	2,088 2,064 4,152	
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	78,393 81,491 159,884 2.6%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	444381 898358 1,839	_
	Town Status	Zusting / Troiting / Thi	Kebele Association	
04	Water Source			
	04-01 Water source	Type, No.	BH Well * 3nos.	
	04-02 Well spec. De 04-03 Method of water draw	epth., Casing Dia., S.W.L, Yield Pump, Gravity	Not grasped Pump	
	04-03 Method of Water draw 04-04 Pump Spec.	Type, Yield	Hand pump	
	04-05 Power source for motorized pump	Type, Kva	Manual	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	06:30-09:00, 11:00-14:00, 16:00-18:00 (7.5hrs/day)	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen			ļ
05	Existing Water Supply Facilities			
03	05-01 Established year	(Gregorian calendar)	2001	-
	05-02 Financial of implementation	Donor's name	Kale Hiowt Catholic church	
	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.	
	05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc. m3/day	nil.	
	05-10 Water reserver type	Type	nil.	
	05-11 Water reserver No.	no.	nil.	·
	05-12 Water reserver Capacity	m3	nil.	<u> </u>
	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 05-17 Structure Type of water point (Public Faucet, PF)	Pressure, Gravity 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 (PF	F) m3/day	6m3. (Hand Pump)	
	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) 05-24 Type of Business Connection (BC) Factory, Scho	ool, Gov. office, Hospitaletc.	nil.	
	05-25 Average of daily water consumption of Business Connection (BC)		nil.	
	05-26 Other technical specimen	- , 1115/ uay		
	1 1 1			
06	Operation and Maintenace			
ĺ	06-01 Organization's name		Water committee	ļ
l		Regional, Zone, Enterpriceetc.		
ĺ	06-03 Number of thechnical staff		nil nil	
	06-04 Principal works of technical staff 06-05 Number of the financial staff		nil	-
	06-06 Principal works of financial staff		nil	
l		Point, House Connectionetc.		1
	06-08 Water tariff rate			
l	Water point (Public faucet)	Birr/L, 20L	12birr/year/household	ļ <u> </u>
l	House connection	Birr/m3	nil.	ļ
	Business connection	Birr/m3	nil.	<u> </u>
l	06-09 Average monthly income by water tariff 06-10 Procurement of spare parts at Tow	Birr/month vn, Zonal Cap. Reg. Capetc.	230birr/month (2,760birr/year)	
				
l		al office, Private companyetc		
	06-13 Principal serious repair with 5-10 years		Pump broken	1
	06-14 Fund for above 6-09, 6-10 by Org	ganization, Gov., Donorsetc.		
	06-15 Other technical specimen			
1			I	1

S-53 H. Gebeya

- 14	Problem of actual town water supply		
F	07-01 Technical	GI	ļ
-	Water source Quantity, Qualityetc.	Shortage water	ļ
-	Water supply facility Decrepit, leakage, design failureetc	no network	
(07-02 Finalcial		4
Ļ	Management	Not organized staff	_
ļ.	Rate of water tarrif collection	Not grasped	4
L	Personnel expenses	Not grasped	_
L	Shortage of budget to execute operation & maintenace	Not grasped	<u> </u>
(07-03 Other incidential, Special specimen		
L	Increase in population to consume water coming from other towns, villagesetc		
[Change in industry increase factory, Tradingetc		ļ
[Human conflict Ethnic, Administrativeetc	nil.	<u> </u>
(07-04 Other specimen		ļ
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	
L	Town is on flat area		
			ļ
	Necessary Institution (Facility, Material)		<u> </u>
[j	Refer to Chapter 4 "Table 4.7"		
ľ			
			$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
10	Current Water Coverage (%) (by water consumption at faucets)	22%	
((6m3*3PF+0m3*0HC+0m3*0BC)=18m3/day 18m3/20Lpcd.=900persons 900persons/4,15	2population=22%	
	Current Water Coverage (%) (by data of water source product))	?? %	1
	((??L)*3600sec.*8hrs)=??L/day ??/20Lcd=??persos ??persons/4152population=??%	······································	1
	Water Potential $(A/B/C/D/E)$	В	1
-			1
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=Not	Approached B / A	1
-	A=Road Width $> 6m/B = >3 \sim 6m/C = 1 \sim 3m/D = <1m$		
H	A=Road Width > om /B= >5~om / C= 1~om / D= <1m Access road is Asphalt & Sub grade 18km from Butajira. (=13+5 from Burajira)		
	Manpower Capability of Water Supply Management by Water Office point)	5	+
ا			+
-			
14	Darco of presence (A / B / C / D / E)	1	-
	Dgree of urgency (A / B / C / D / E)		+
ļ.	Refer to Chapter 5 & 7		
į	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 [Other Donors, NGO's		
Ĺ			
15	N · Fl · C	N. I. C.	
17	Main Ethnic Group	Meskan Gurage, Merego	
ľ		Meskan Gurage, Merego	
ľ	Health conditions	The same of the sa	
ľ	Health conditions -1 Medical facilities in Town I	Health Center, Private clinic, Health po	SI
ľ	Health conditions -1 Medical facilities in Town I -2 Nearest other facilities from Town km	Health Center, Private clinic, Health po	St
ľ	Health conditions -1 Medical facilities in Town I	Health Center, Private clinic, Health po 15 Mararia 1,500	SI
ľ	Health conditions -1 Medical facilities in Town I -2 Nearest other facilities from Town km	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500	SE
ľ	Health conditions -1 Medical facilities in Town I -2 Nearest other facilities from Town km	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200	St
ľ	Health conditions -1 Medical facilities in Town I -2 Nearest other facilities from Town km	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100	SS
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 Center, Private clinic, Health por 15	SS
18]	Health conditions -1 Medical facilities in Town I -2 Nearest other facilities from Town km	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100	SST
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 Center, Private clinic, Health por 15	SS
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 Center, Private clinic, Health por 15	885
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 Center, Private clinic, Health por 15	888
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 Center, Private clinic, Health por 15	888
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 Center, Private clinic, Health por 15	ss
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 Center, Private clinic, Health por 15	SS
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 Center, Private clinic, Health por 15	SST
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 Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SST
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: Remarks: Mr. Tigist Mengistu Dev't A	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SST
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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair personal desired from the many conditions and the many conditions are the many conditions and the many conditions are	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SST
18] 19] 20] 21]	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. Tigist Mengistu Dev't A	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS
18] 19] 20] 21]	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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair personal desired from the many conditions and the many conditions are the many conditions and the many conditions are	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SST
18] 19] 20] 21]	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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS
18] 19] 20] 21]	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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS
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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS
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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS
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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS
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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	
18]] 19]] 20] 21]]	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: Mr. Tigist Mengistu Dev't Amr. Sebrala Ahemed Chair persons / Mr.	Health Center, Private clinic, Health po 15 Mararia 1,500 Diarrhea 500 Dysentery 200 Typhoid 100 others 200 Farming, Trade	SS

S-53 H. Gebeya



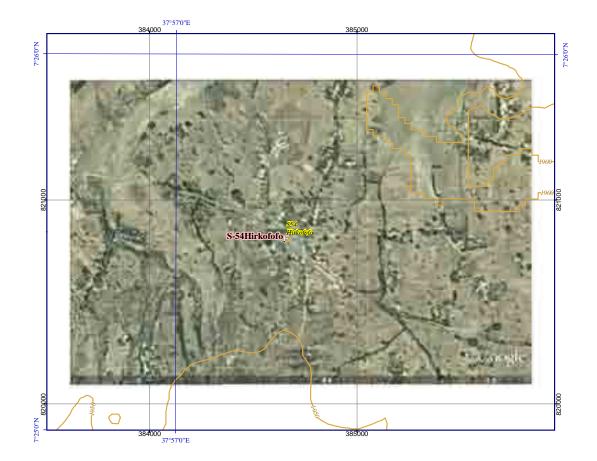
S-54 Hirkofofo

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			1100	•
Town	male / female / total	by SNNPR	1,334 1,256 2,590	,
Woreda	male / female / total	by Census 2007	51,777 50,687 102,464	
percentage of Town in W			2.5%	
02 Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	384570 820680 1,896 Town Administration	1
03 Town Status 04 Water Source			Town Administration	
04-01 Water source		Type, No.	Well * 1no. (shallow well)	
04-02 Well spec.		Depth., Casing Dia., S.W.L, Yield	Not grasped	İ
04-03 Method of water draw		Pump, Gravity	Pump	
04-04 Pump Spec.		Type, Yield	Hand Pump	
04-05 Power source for motorize		Type, Kva	Manual	ļ
04-06 Durartion of water draw (Operation hours)	daily hours, time	06:00-13:00, 15:00-18:00 (10hrs./day)	
04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.	Good	<u> </u>
04-08 Other technical specimen				
05 Existing Water Supply Facilities	3			
05-01 Established year		(Gregorian calendar)	2008	1
05-02 Financial of implementati		Donor's name	UNICEF	
05-03 Name of implementation	(Project name)		Hirko water project	
05-04 Intake Type			Well (Shallow well)	
05-05 Intake No. 05-06 Conveyance Type (Water	Di	D:	lno. (Hand pump)	
05-06 Conveyance Type (water	source ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.	
05-07 Fower to convey		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 (Boos	ter pump Stn. ~ Reservoir)		nil.	
05-14 Power to transmit		Pressure, Gravity	nil.	
05-15 Distribution Type 05-16 Power to distribute		Pipe material, length Pressure, Gravity	nii. nil.	
05-17 Structure Type of water p	oint (Public Faucet PF)	RC, Masonry, Pipeetc.		<u> </u>
05-17 Structure Type of water p		no.	nil.	
05-19 Number of faucet at a wat		no.	nil.	<u> </u>
05-20 Average of daily water co	nsumption at a water point	m3/day	nil.	
05-21 Number of House Connec			nil.	
05-22 Average of daily water consump		m3/day	nil.	
05-23 Number of Business Cone			nil.	
05-24 Type of Business Connec 05-25 Average of daily water consumpti		School, Gov. office, Hospitaletc. m3/day	nii.	
05-26 Other technical specimen	ion of Business Connection (BC)	III3/day	1111.	
55 25 Other technical specimen				<u> </u>
06 Operation and Maintenace				
06-01 Organization's name			Hirko water system	
06-02 Type of organization		Regional, Zone, Enterpriceetc.	Community based organization	
06-03 Number of thechnical staf			nil.	ļ
06-04 Principal works of technic			nil.	ļ
06-05 Number of the financial s 06-06 Principal works of financial			nil.	
06-07 Categories of water tariff	ui stali	W.Point, House Connectionetc.	W. point (Hand pump)	
06-08 Water tariff rate		om, House Connectionetc.	F-mr (rama pamp)	
Water point (Public fauce	t)	Birr/L, 20L	1.0birr/month /household	
House connection		Birr/m3	nil.	
Business connection		Birr/m3	nil.	
06-09 Average monthly income		Birr/month	300birr/month	
06-10 Procurement of spare part	s at	Town, Zonal Cap. Reg. Capetc.		ļ
06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc		ļ
06-12 Method in case of serious 06-13 Principal serious repair w		gional office, Private companyetc	mil.	
06-14 Fund for above 6-09, 6-10		y Organization, Gov., Donorsetc.		
06-15 Other technical specimen	<u> </u>	,		†

S-54 Hirkofofo

07	Problem of actual town water supply			
1	07-01 Technical			
1	Water source Quantity, Qualityetc.	Shortage wat	er	
	Water supply facility Decrepit, leakage, design failureetc	Design failur	e	
1	07-02 Finalcial			
1	Management	Not grasped		
1	Rate of water tarrif collection	Not grasped		
	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		villagers	
1	Change in industry increase factory, Tradingetc			
	Human conflict Ethnic, Administrativeetc.	nil.		
1	07-04 Other specimen			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
	Town is on the flat area			
00	N (Filit. Mtil)			-
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)		12%	+
10	(6m3*1PF+0m3*0HC+0m3*0BC)=6m3/day 6m3/20Lpcd.=300persons 300persons/2,590persons/2,	nulation-120		-
1	Current Water Coverage (%) (by water product at wells and/or springs)	эриганон=12%	?? %	
1	(?L.sec.*3600sec.*24hrs)=??L/day ??/20Lcd=??persos ??persons/2590population=??%		:: /0	
11	Water Potential (A/B/C/D/E)		В	+
111	mater otenium (II) D (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	D/A	+
12	A=Road Width > $6m / B = 376m / C = 173m / D = 17m$		2711	
	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	
1				
14	Dgree of urgency (A / B / C / D / E)			
1 -	Refer to Chapter 5 & 7			
15	New Water Supply Plan			
	The facility can be decised in an Ethiopian standard, which is not required more advanced tool	analaari Tha	small taxun is on the	
	The facility can be designed in an Ethiopian standard, which is not required more advanced tech	mology. The	sman town is on the	
<u></u>	generally flat terrains, construction work is not difficult.			
16	Other Donors, NGO's			
1				
17	Main Ethnic Group	Hadiya		
	**			
18	Health conditions	TT 7		
1	-1 Medical facilities in Town		r, Private clinic, Drug st	ore
1	-2 Nearest other facilities from Town km	81	1.076	
	-3 Main patients of water born diseases persons / year	Mararia	1,976	
1		Diarrhea	1,700	
1		Diarrhea	1,450 600	
		Typhoid	1,200	
19	Main economic activities	others Trade Farmi	ng, Livestock	+
17	FIGURE CONTRIBUTE CONTRIBUTE	riade, r'ailli	115, LIVESTOCK	
20	Particular comments :			+
20	This small town is a priority of improvement of accessibility for operation & maintenance.			
1				
21	Remarks:			+
1	Access from Hosaina is unpaved road. (Maddy during rainy season)			
1	Ato Abdulkadir Mohamed Woreda water supply process own	er Mob. 0916	731236	
Men	to (Town sketchetc.):			
	- X	ş	ı İ	L
İ				
 				
1				

S-54 Hirkofofo



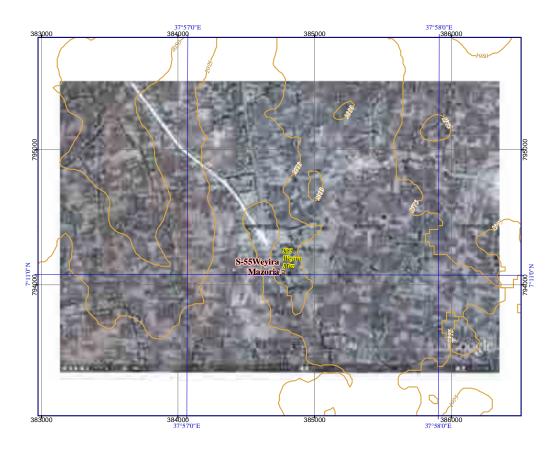
S-55 Meyita Mazoria

	SNNPR		44 / 52	
	Name of small town :	Weyira Mazor	ria S- 55	
	Name of Woreda :	Misrak Badawo	ocho SW- 06	
	Name of Zone :	Hadiya	SZ- 02	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	4,215 4,131 8,346	
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	72,354 72,833 145,187 5.7%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	384678 793963 2,028	
	Town Status		Town Administration	
04	Water Source 04-01 Water source	Type, No.	Well * 1	
	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	Motorizes pump	
	04-05 Power source for motorized pump	Type, Kva	Generator 35kva (broken)	
	04-06 Durartion of water draw (Operation hours) 04-07 Water quality	daily hours, time Iron, Fluorideetc.	not functioned since 2005 Good	
	04-08 Other technical specimen	non, Puorideetc.	nil.	
	or of other technical specimen			·
05	Existing Water Supply Facilities			
	05-01 Established year	(Gregorian calendar)	1983 SNNPR	
	05-02 Financial of implementation 05-03 Name of implementation (Project name)	Donor's name	Weriya Mazoria Water Supply Project	
	05-04 Intake Type		Well	
	05-05 Intake No.		1	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP 2" L=600m	
	05-07 Power to convey		Pressure	
	05-08 Water treatment 05-09 Water treatment capacity	Disinfection, Ironetc. m3/day	nil.	
	05-10 Water reserver type	Type	ER	
	05-11 Water reserver No.	no.	1 no.	
	05-12 Water reserver Capacity	m3	4m3.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservo		_	
	05-14 Power to transmit 05-15 Distribution Type	Pressure, Gravity Pipe material, length	- GIP / 2"~3/4" / L=1,000m	
	05-16 Power to distribute	Pressure, Gravity	Gravity Cravity	
	05-17 Structure Type of water point (Public Faucet, PF)		Mosonry	-
	05-18 Number of water point (Public Faucet, PF)	no.	1	
	05-19 Number of faucet at a water point (Public Faucet,		6	
	05-20 Average of daily water consumption at a water po 05-21 Number of House Connection (HC)	int (PF) m3/day	not functioned 36	
	05-22 Average of daily water consumption of House Connect	ion(HC) m3/day	not functioned	
	05-23 Number of Business Conection (BC)		2	
		y, School, Gov. office, Hospitaletc.	School*1 / Chrch *1	
	05-25 Average of daily water consumption of Business Connect	ion (BC) m3/day	not functioned	
	05-26 Other technical specimen		nil.	
06	Operation and Maintenace			
١	06-01 Organization's name		Town water supply office	\
	06-02 Type of organization	Regional, Zone, Enterpriceetc.	Town	
	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		(4) (Water meter count, Billetc.)	
	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	(0.2birr/20L)	
	House connection	Birr/m3	(8.0birr/m3)	
	Business connection 06-09 Average monthly income by water tariff	Birr/m3 Birr/month	(8.0birr/m3) 1,460 (17,520birr/year)	
			Sheshemane, Sodo, Awasa	
	06-11 Principal spare parts		Filter for GE, Water Meter, Pipe fitting	S
	06-12 Method in case of serious repair by R	egional office, Private companyetc	Regional office	
	06-13 Principal serious repair with 5-10 years		Generaor broken	
	06-14 Fund for above 6-09, 6-10	by Organization, Gov., Donorsetc.		
	06-15 Other technical specimen		Lack of degin	
1				

S-55 Meyita Mazoria

07	Problem of actual town water supply			
ı	07-01 Technical	Not function	ed whole sysy	
Ī	Water source Quantity, Qualityetc.	No response		
ŀ	Water supply facility Decrepit, leakage, design failureetc			
ŀ		. Concretor we		
ļ	07-02 Finalcial	Not for	ad whole a	
-	Management		ed whole sysy	
Į	Rate of water tarrif collection	No response		
	Personnel expenses	No response		
Ī	Shortage of budget to execute operation & maintenace	No income		
ŀ	07-03 Other incidential, Special specimen			
ŀ		NT		
ļ	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		
Ì				
00	Constitution (Classes assertion between facility Transfeller at			
	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)			
ļ	Town : Flat area along asphalt road			
ſ				
09	Necessary Institution (Facility, Material)			
	Generator repair and/or connection commercial elec. Line for power source of Motorized pum	n		
		Ь		
	Adopt new Elevated reservoir			
	Refer to Chapter 4 "Table 4.7"			
10	Current Water Coverage (%) (by water consumption at faucets)		0 %	
ľ		***************************************		
ŀ	Current Water Coverage (%) (by data of water source product))		39%	
		lation_200/	37/0	
	((2.25L)*3600sec.*8hrs)=64800L/day 64800/20Lcd=3240persos 3240persons/8346popul	iation=39%		
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/B	
	Town along the Asphalt road $A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m$			
	Access road from Sodo & Sheshemane is asphalt paved. * Refer to Chapter 5 "Table 5-7: Cate	agories of nee	occibility"	
	Access road from Sodo & Silesticinale is aspirant paved. Refer to Chapter 5. Table 5-7. Cate	egories or 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			
	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 standard, whichis not required more advanced tec	hnology. The	small town is on the	
15	Refer to Chapter 5 & 7 New Water Supply Plan	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 required more advanced tec generally flat terrains, construction work is not difficult.	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 required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's	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 required more advanced tec generally flat terrains, construction work is not difficult.	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 required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's	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 required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6		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, whichis not required more advanced tec generally flat terrains, construction work is not difficult. Other Donors, NGO's	hnology. The	small town is on the	
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 generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group		small town is on the	
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 generally flat terrains, construction work is not difficult. Other Donors, NGO's Refer to the Chapter 6 Main Ethnic Group Health conditions	Hadiya	small town is on the	
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 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	Hadiya Health post	small town is on the	
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 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	Hadiya	small town is on the	
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 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	Hadiya Health post	small town is on the	
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 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	Hadiya Health post 55 Diarrhea	2,058	
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 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	Hadiya Health post 55 Diarrhea Malaria	2,058 503	
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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid	2,058 503 482	
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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery	2,058 503 482 192	
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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid	2,058 503 482	
15 16 17 18 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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery	2,058 503 482 192	
15 16 17 18 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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others	2,058 503 482 192	
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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others	2,058 503 482 192	
117 118 119 119	Refer to Chapter 5 & 7 New Water Supply Plan 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 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:	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	
5	Refer to Chapter 5 & 7 New Water Supply Plan 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 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	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
8	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this face	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
.5 .6	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious.	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
117 118 119 119 119 119 119 119 119 119 119	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this face	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
.5 .6	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious.	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
117 118 119 119 119 119 119 119 119 119 119	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious.	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
.5 .6	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious.	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
6	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks:	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
6	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious.	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
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5 6 7 8 9 9 9 1	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious. Remarks:	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming	2,058 503 482 192 79	lition
5 6 7 8 9 9 9 1	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks: o (Town sketchetc.):	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition
5 6 7 8 9 9 9 1	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this fac for the residents is serious. Remarks:	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition
5 6 7 8 9 9 9 1	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks: o (Town sketchetc.):	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition
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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks: o (Town sketchetc.):	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition
15 16 17 18 19 20 1em	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks: o (Town sketchetc.):	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition
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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks: o (Town sketchetc.):	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition
5 6 7 8 9 9 9 1	Refer to Chapter 5 & 7 New Water Supply Plan 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 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: The eixisting water supply facility has not been operated sonce 2005 due to decrepit of this factor the residents is serious. Remarks: o (Town sketchetc.):	Hadiya Health post 55 Diarrhea Malaria Typhoid Dysentery others Farming cility. Therefo	2,058 503 482 192 79	lition

S-55 Meyita Mazoria



S-56 Biloya

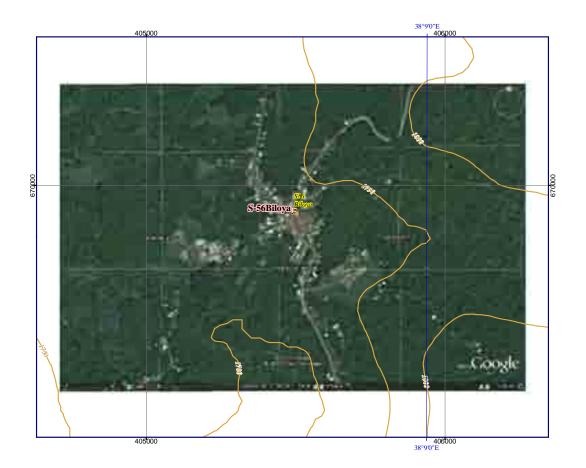
	SNNPR		45 / 52	
	Name of small town :	Biloya	S- 56]
	Name of Woreda :	Kochore	SW- 20	
	Name of Zone :	Gedeo	SZ- 05	
	Profile items		Profile	!
01	Population			
	Town male / female / total	by SNNPR	2,194 2,290 4,484	
	Woreda male / female / total percentage of Town in Woreda	by Census 2007	65,235 66,183 131,418 3.4%	
02	Town Coordination UTM (Adindan)	Easting / Northig / Alt.	405405 669769 1,965	
	Town Status		Town Administration	
04	Water Source			
	04-01 Water source	Type, No.	Spring*1no.	
	04-02 Well spec. De 04-03 Method of water draw	pth., Casing Dia., S.W.L, Yield 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, 15:00~17:00 (5hrs/day)	
	04-07 Water quality	Iron, Fluorideetc.	Good	
	04-08 Other technical specimen			
05	Existing Water Supply Facilities			1
	05-01 Established year	(Gregorian calendar)	1991	
	05-02 Financial of implementation	Donor's name	Gedo Development Association (GDA)
	05-03 Name of implementation (Project name)		Biloya Water Supply Project	
	05-04 Intake Type 05-05 Intake No.		Spring 1no.	-
	05-05 Intake No. 05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 1*1/2", 500m	
	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 1no.	
	05-11 Water reserver No. 05-12 Water reserver Capacity	no. m3	1m3	ļ
	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	ļ
	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.	Monsonry 2	
	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	2m3/day	
	05-21 Number of House Connection (HC)		nil.	
	05-22 Average of daily water consumption of House Connection(HC) 05-23 Number of Business Conection (BC)) m3/day	nil.	
		ool, Gov. office, Hospitaletc.		·
	05-25 Average of daily water consumption of Business Connection (BC		nil.	
	05-26 Other technical specimen			
06	Operation and Maintenace 06-01 Organization's name		Water committee	
	<u> </u>	egional, Zone, Enterpriceetc.	Community based organization	
	06-03 Number of thechnical staff	egionai, Zone, Enterpriceee.	nil.	
	06-04 Principal works of technical staff		nil.	
	06-05 Number of the financial staff		3	
	06-06 Principal works of financial staff	D-i-+ H C	Water sale	
	06-07 Categories of water tariff W. 06-08 Water tariff rate	Point, House Connectionetc.	W. Point	
	Water point (Public faucet)	Birr/L, 20L	15birr/year/household	<u> </u>
	House connection	Birr/m3	nil.	1
	Business connection	Birr/m3	nil.	
	06-09 Average monthly income by water tariff	Birr/month	300birr/month	
		n, Zonal Cap. Reg. Capetc. bil filter, Fuel filter, Pipesetc		
		office, Private companyetc		ł
	06-13 Principal serious repair with 5-10 years		nil.	
	06-14 Fund for above 6-09, 6-10 by Org	ganization, Gov., Donorsetc.	Water committee	
	06-15 Other technical specimen			
1				1

S-56 Biloya

		1	
07	Problem of actual town water supply		
	07-01 Technical		
	Water source Quantity, Qualityetc.	Shrtage water source	
	Water supply facility Decrepit, leakage, design failureetc	Leakage from pipe lines	
	07-02 Finalcial		
	Management	Lack of skilled 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	nil.	
	Human conflict Ethnic, Administrativeetc		
	07-04 Other specimen		
	07-04 Other specimen		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	
	Slope of mountatin		
09	Necessary Institution (Facility, Material)		
0)	Refer to Chapter 4 "Table 4.7"		
	Refer to Chapter + Table 4.7		
<u> </u>			
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 population = 4%	
	Current Water Coverage (%) (by data of water source product))	?? %	
	((??L)*3600sec.*24hrs)=??L/day ??/20Lcd=??persos ??persons/4484population=??%	/ ~	
11			
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=No	t 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	
13	manpower capability of mater supply management by mater office going		
14	Dgree of urgency (A / B / C / D / E)		
	Refer to Chapter 5 & 7		
15	New Water Supply Plan		
13	1 tow water supply I fair		
	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		
17	Main Ethnic Group	Gedeo	
10	Health conditions		
10		TT 14	
	-1 Medical facilities in Town	Health post	
	-2 Nearest other facilities from Town km	54	
	-3 Main patients of water born diseases persons / year	Mararia 100	
		Diarrhea 80	
		Cholera 75	
		Diarrhea 60	
		Typhoid 55	
10	Main economic activities	**	
19	IVIAIN CONOMIC ACTIVITIES	Farming, Trade	
20			
20	Particular comments :		
l	The existing water supply facility was constructed by NGOon 1991. This facility has 1 spring	as water source which is not staible by	
l		as water source winer is not statute by	
	seasonal water product. Hence, this facility can not supply enougth amount of water.	ľ	
21	Remarks:		
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l			
Men	no (Town sketchetc.):		
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Data 7.3 Small Town Profile of SNNPRS

S-56 Biloya



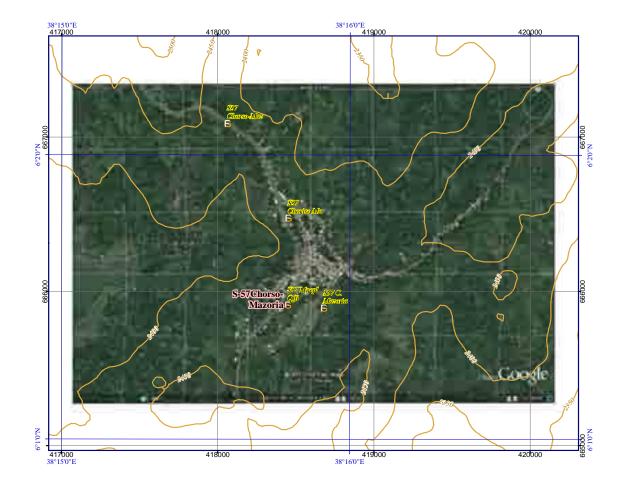
S-57 Chorso Mazoria

	SNNPR			46 / 52	
	Name of small town	:	Chorso Maz	oria S- 57	
	Name of Woreda		Gedeb	SW- 21	
	Name of Zone	•	Gedeo	SZ- 05	
		Profile items		Profile	!
01	Population				
	Town	male / female / total	by SNNPR	8,50	
	Woreda percentage of Town in Wore	male / female / total	by Census 2007	73,480 73,252 146,73 5.80	
02	Town Coordination	UTM (Adindan)	Easting / Northig / Alt.	418355 665767 2,44	_
	Town Status	C TIVI (Tumuum)	Zasting / Horting / Ha	Municipality	
04	Water Source				
	04-01 Water source		Type, No.	Well*3nos, Spring*1no. (0.5L/sec or less)	
	04-02 Well spec. 04-03 Methor of water draw		Depth., Casing Dia., S.W.L Pump, Gravity	see below memo Manual, Graviry (Spring On-spot)	
	04-04 Pump Spec.		Type, Yield	Hand pump	
	04-05 Power source		Type, Kva	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.	
05	Existing Water Supply Facilities				
	05-01 Established year		(Gregorian calendar)	1998 / 2005	
	05-02 Financial of implementation		Donor's name	IRC	
	05-03 Name of implementation			Choriso Mazoria water project	
	05-04 Intake Type			Well, Spring	
	05-05 Intake No.	Di\	Diagram to sight housely	Well*3 nos., Spring*1no.	
	05-06 Conveyance Type (Water so 05-07 Power to convey	urce ~ Keservoir)	Pipe material, length Pressure, Gravity	PVC 10m for On-spot Gravity for On-spot	
	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 05-14 Power to transmit	pump Stn. ~ Reservoir)	Pipe material, length Pressure, Gravity	nil.	
	05-14 Power to transmit 05-15 Distribution Type		Pipe material, length	nil.	
	05-16 Power to distribute		Pressure, Gravity	nil.	
	05-17 Structure Type of water poir	nt (Public Faucet, PF)	RC, Masonry, Pipeetc.	Mansonry of On-spot	
	05-18 Number of water point (Pub		no.	1 (Hand pump), 1 (On-spot)	
	05-19 Number of faucet at a water		no.	1 (Hand pump), 2 (On-spot)	
	05-20 Average of daily water const 05-21 Number of House Connection) m3/day	1.6m3/day (Hand Pump), 43m3/day nil.	
	05-21 Number of House Connected		m3/day	nil.	
	05-23 Number of Business Conecti		ms/day	nil.	
	05-24 Type of Business Connection	n (BC) Factory, Scho	ol, Gov. office, Hospitaletc	nil.	
	05-25 Average of daily water consump	tion of Business Connection (BC) m3/day	nil.	
	05-26 Other technical specimen			nil.	
06	Operation and Maintanese				
06	Operation and Maintenace 06-01 Organization's name			Water commitie	
	06-02 Type of organization	Re	egional, Zone, Enterpriceetc	-	
	06-03 Number of thechnical staff			4	
	06-04 Principal works of technical			Repair	
	06-05 Number of the financial staff			1	
	06-06 Principal works of financial			Cash correction	
	06-07 Categories of water tariff 06-08 Water tariff rate	W.	Point, House Connectionetc	.W.Point (Hand pump)	
	Water point (Public faucet)		Birr/L, 20L	0.1birr/20L + 6.0 birr/year/househould	
	House connection		Birr/m3	nil.	
	Business connection		Birr/m3	nil.	
	06-09 Average monthly income by		Birr/month	100birr/month	
	06-10 Procurement of spare parts		n, Zonal Cap. Reg. Capetc.		
	06-11 Principal spare parts		il filter, Fuel filter, Pipesetc		
	06-12 Method in case of serious re 06-13 Principal serious repair with		office, Private companyetc	No answer	
	06-14 Fund for above 6-09, 6-10		anization, Gov., Donorsetc		
	06-15 Other technical specimen		,, _ 511010 111000	nil.	1

S-57 Chorso Mazoria

		1		
07	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	No answer		
	Water supply facility Decrepit, leakage, design failureetc	Lack of skilled	manpower and rep	air tools
	07-02 Finalcial	NI		
	Management Rate of water tarrif collection	No answer No answer		
	Personnel expenses	No answer		
	Shortage of budget to execute operation & maintenace	No answer		
	07-03 Other incidential, Special specimen	No aliswei		
	Increase in population to consume water coming from other towns, villagesetc	No onewer		
	Change in industry increase factory, Tradingetc			
	Human conflict Ethnic, Administrativeetc			
	07-04 Other technical specimen	nil.		
	07-04 Other recrimical specifien	1111.		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.	\		
00	Town is top of ridge gently.)		
	Town is top of riuge genity.			
09	Necessary Institution (Facility, Material)			
09	Refer to Chapter 4 "Table 4.7"			
	Refer to Chapter 4 Table 4.7			
10	Current Water Coverage (%) (by water consumption at faucets)	ı	26%	-
10	(1.6m3*1HP+43.0m3*1SP)=44.6m3/day 44.6m3/20Lpcd.= 2230 persons 2230 persons / 8.	500 population		
	(1.6m3*1HP+43.0m3*1SP)=44.6m3/day 44.6m3/20Lpcd.= 2230 persons 2230 persons / 8. Current Water Coverage (%) (by data of water source product))	= IIIIIIIIIII = 	= 8% %	
	Current mater Coverage (10) (by data of water source product))		70	
11	Water Potential (A / B / C / D / E)	ı	С	-
11	Water Folential (A/D/C/D/E)		C	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=1	Not Approached	A/C	
14	Accessibility $(A/B/C/D/E)$ A=Aspnai/b=Base Course/C=Sub Grade/D=Only Dry Season/E=1 Town along the Asphalt road A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	тог другоаспец	A/C	-
	Access road is Asphalt road 59km from Dila. * Refer to Chapter 5 "Table 5-7: Categories of a	ooossibility"		
12	Manpower Capability of Water Supply Management by Water Office point)	iccessibility	9	
13	Staff of water committee does not grasp datail of Hand pumps (Manufacturer, typeetc.)		9	
	Start of water committee does not grasp datait of Hand pumps (Manufacturer, typeetc.)			
1.4		1		+
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	chnology. The sn	nall town is on the	gentle slope,
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	chnology. The sn	nall town is on the	gentle slope,
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 work is not difficult. Other Donors, NGO's		nall town is on the	gentle slope,
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 tecconstruction work is not difficult.	chnology. The sn	nall town is on the	gentle slope,
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 work is not difficult. Other Donors, NGO's Main Ethnic Group		nall town is on the	gentle slope,-
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 work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions	Gedeo, Oromo	nall town is on the	gentle slope,-
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 work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Gedeo, Oromo Health post	nall town is on the	gentle slope,-
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 tecconstruction 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		gentle slope,
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 work is not difficult. Other Donors, NGO's Main Ethnic Group Health conditions -1 Medical facilities in Town	Gedeo, Oromo Health post 63 Dysentery	200	gentle slope,
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 tecconstruction 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	200 150	gentle slope,
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 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	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea	200 150 127	
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 tecconstruction 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	
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 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	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea	200 150 127	
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 tecconstruction 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:	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 tecconstruction 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 eixisting water supply facility has three Hand-pumps (20f them are out of order) and 1 spr	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 tecconstruction 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:	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply facility have a high benefit	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (20f them are out of order) and 1 spr	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
15 16 17 18	Refer to Chapter 5 & 7 New Water Supply Plan The facility can be designed in an Ethiopian standard, whichis not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply facility have a high benefit	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply facility have a high benefit	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply faicility have a high bene Remarks:	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply facility have a high benefit	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply faicility have a high benefit of the company of the	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enough amount of water for the residents. New water supply faicility have a high bene Remarks: 104-02 Well spec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply faicility have a high bene Remarks: no (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (On- efficial effect.	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply faicility have a high bene Remarks: no (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.2; Estbsh on 1998 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (On- eficial effect.	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tecconstruction 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enougth amount of water for the residents. New water supply faicility have a high bene Remarks: no (Town sketchetc.): 04-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (On- efficial effect.	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tec 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enough amount of water for the residents. New water supply facility have a high benefit Remarks: 10 (Town sketchetc.): 104-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.2; Estbsh on 1998 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.3; Estbsh on 2005 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (On- eficial effect.	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tec 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 sp supply enougth amount of water for the residents. New water supply faicility have a high bene Remarks: The OTOWN sketchetc.): 104-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.2; Estbsh on 1998 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.3; Estbsh on 2005 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.3; Estbsh on 2005 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (Onsticial effect.	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tec 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 spr supply enough amount of water for the residents. New water supply facility have a high benefit Remarks: 10 (Town sketchetc.): 104-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.2; Estbsh on 1998 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.3; Estbsh on 2005 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (Onsticial effect.	200 150 127 , Waving, Livestoo	ck
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 not required more advanced tec 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 eixisting water supply facility has three Hand-pumps (2of them are out of order) and 1 sp supply enougth amount of water for the residents. New water supply faicility have a high bene Remarks: The OTOWN sketchetc.): 104-02 Well spec. Well No.1; Estbsh on 1998 GL-51m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.2; Estbsh on 1998 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.3; Estbsh on 2005 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec. Well No.3; Estbsh on 2005 GL-??m / Casing dia.4" / SWL GL-??m / ??L/sec.	Gedeo, Oromo Health post 63 Dysentery Typhoid Diarrhea Farming, Trade ring source (Onsticial effect.	200 150 127 , Waving, Livestoo	ck

S-57 Chorso Mazoria



S-58 Shento

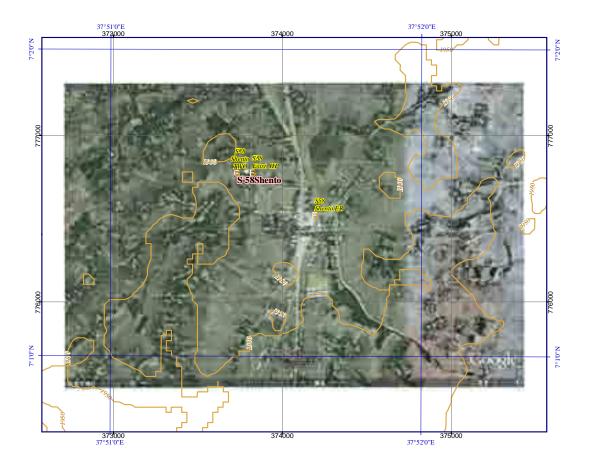
	SNNPR				47 / 52	
	Name of small town :		Shent	0	S- 58	
	Name of Woreda :		Damot Pu	lasa	SW- 37	
	Name of Zone :		Wolayi	ta	SZ- 06	
	Profile item	ıs			Profile	!
01	Population					
	Town male / female		by SNNPR	2,759	2,586 5,345	
	Woreda male / female percentage of Town in Woreda	/ total	by Census 2007	52,962	55,121 108,083 4.9%	
02	Town Coordination UTM (Adinda	ın)	Easting / Northig / Alt.	373639	776639 1,960	_
	Town Status	,	Busing, Horning, Thu	Woreda Capital	7,7005	
04	Water Source					
	04-01 Water source	D	Type, No. th., Casing Dia., S.W.L, Yie		spot Dist. Pipe form Aboka Kebele	-
	04-02 Well spec. 04-03 Method of water draw	Дері	Pump, Gravity	Manual / Pressure	DOURC Killg) / !	
	04-04 Pump Spec.		Type, Yield		lev) / Motorized Well Pump)
	04-05 Power source for motorized pump		Type, Kva	nil. / Generator		
	04-06 Durartion of water draw (Operation hours)		daily hours, time	HP 08:00~09:00 / Good / Good	Pipe line is not functioned	
	04-07 Water quality 04-08 Other technical specimen		Iron, Fluorideetc.		is limited because of HP	-
	04-06 Other teenhear speemen			Well's yield is little		
05	Existing Water Supply Facilities					
	05-01 Established year		(Gregorian calendar)	1990 (HP) / 2001 (4
	05-02 Financial of implementation 05-03 Name of implementation (Project name)		Donor's name	Shiento water proj	/ SNNPR (Pipe Line)	
	05-04 Intake Type				IP) / Deep Well (Pipe line)	
	05-05 Intake No.			4 (HP) / 1 at Abot		
	05-06 Conveyance Type (Water source ~ Reservo	ir)	Pipe material, length		0m fm. Abota town	
	05-07 Power to convey		Pressure, Gravity	nil. / Pressure fm	Abota Kebele	
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nil. / nil.		
	05-10 Water reserver type		Туре	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. ~ R 05-14 Power to transmit	eservoir)	Pipe material, length Pressure, Gravity	nil. / nil. nil. / nil.		
	05-14 Tower to transmit 05-15 Distribution Type		Pipe material, length	nil. / On-Spot (belo	ow ER)	
	05-16 Power to distribute		Pressure, Gravity	nil. / Gravity (On-		
	05-17 Structure Type of water point (Public Fauce	et, PF)	RC, Masonry, Pipee			
	05-18 Number of water point (Public Faucet, PF) 05-19 Number of faucet at a water point (Public F	aucat DE)	no.	nil. / Ino. / 3 New PF nil. / 6nos. / 4nos.	under construction by SNNPR	
	05-20 Average of daily water consumption at a wa		m3/day		3/day/On-spot (Not function))
	05-21 Number of House Connection (HC)			nil.		
	05-22 Average of daily water consumption of House C	onnection(HC)	m3/day	nil.		
	05-23 Number of Business Conection (BC) 05-24 Type of Business Connection (BC)	Factory Schoo	l, Gov. office, Hospital	nil.		
	05-25 Average of daily water consumption of Business C		m3/day	nil.		
	05-26 Other technical specimen			see below 16 Parti	cular comments	
0.5						
06	Operation and Maintenace 06-01 Organization's name			Woreda Water Off	fice	
	06-02 Type of organization	Re	gional, Zone, Enterprice		iice	
	06-03 Number of thechnical staff		Z	6		
	06-04 Principal works of technical staff				epair of Hand Pumps	
	06-05 Number of the financial staff			8 Administration		
	06-06 Principal works of financial staff 06-07 Categories of water tariff	W P	oint, House Connectione		imp) / On-spot	
	06-08 Water tariff rate		<u> </u>	to will ome (rame po	p), on spot	
	Water point (Public faucet)		Birr/L, 20L		/ 0.5 birr/20L On-spot	
	House connection		Birr/m3	nil.		<u> </u>
	Business connection 06-09 Average monthly income by water tariff		Birr/m3 Birr/month	nil. 480 ~600birr (H.P)	/ 6,300~9,000birr (On-spot)	-
	06-10 Procurement of spare parts	at Town	, Zonal Cap. Reg. Cape			
	06-11 Principal spare parts	Oil	filter, Fuel filter, Pipes	etc Rising pipe (PVC)		
	06-12 Method in case of serious repair	by Regional	office, Private company			
	06-13 Principal serious repair with 5-10 years 06-14 Fund for above 6-09, 6-10	l Ω-	unization, Gov., Donorse	nil.	Fina	-
	06-14 Fund for above 6-09, 6-10 06-15 Other technical specimen	oy Orga	unzauon, Gov., Donorse		fice has been established 3	1
1				years ago.		·

S-58 Shento

07	D1.1		
07	Problem of actual town water supply	T 1:11 C.1 1 : 1 . CC	
	07-01 Technical	Low skill of thechnical staff.	
	Water source Quantity, Qualityetc.	Water shortage	
	Water supply facility Decrepit, leakage, design failureetc	see below 16 Particular comments	
	07-02 Finalcial		
	Management		
	Rate of water tarrif collection	All Document and Records before establish	
		Wareda Water Office which were lost.	
	Personnel expenses		
	Shortage of budget to execute operation & maintenace		
	07-03 Other incidential, Special specimen	No Transportation (Motor bikeetc.)	
	Increase in population to consume water coming from other towns, villagesetc	Coming from villages to correct water	
	Change in industry increase factory, Tradingetc.		
	Human conflict Ethnic, Administrativeetc		
	07-04 Other specimen	nil.	
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)		
	Shento town is on flat ground.		
09	Name of the State		
09	Necessary Institution (Facility, Material)		
	Refer to Chapter 4 "Table 4.7"		
l			
l			
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		
l		- t	ļ
I	Current Water Coverage (%) (by data of water source product))	??%	ļ
	((??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/5345population=??%		
11	Water Potential (A / B / C / D / E)	Е	
l		-	
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	
12	A=Road Width > 6m /B= >3~6m / C= 1~3m / D= <1m	2,2	
	Access road is Asphalt & Base course 16km from Sodo & 9km from Buditi.	T	
13	Manpower Capability of Water Supply Management by Water Office point)	15	
14	Dgree of urgency (A / B / C / D / E)		
14			
	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 fla	
		illology. The small town is on the generally ha	
	terrains, construction work is not difficult.		
16	Other Donors, NGO's		
10	Refer to the Chapter 6		
	Refer to the Chapter o		
-	VI DI LO	***	
17	Main Ethnic Group	Welayta	
18	Health conditions		
	-1 Medical facilities in Town	Private clinic, Health post, Drug store	
	-2 Nearest other facilities from Town km	28	•
	-3 Main patients of water born diseases persons / year	Mararia 600	
l		Typhoid 350	
		Dysentery 150	
19	Main economic activities	Trade, Farming, Waving	
l			
20	Particular comments :		
1 20	Water supply of On-spot facilities which distrubuted fm Abota Kebele has been suspended due	a to Generator broken since Dec 2010	
l			
~	New Public faucet (3nos.) are under construction by SNNPR, which PF to be distributed othe	Reveile by pipe line.	!
21	Remarks:		
	Out of the study area. The eixisting water supply facility has four Hand-pumps (2of them are of	out of order) and one public faucet which is	L
l	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	
l	day) and Spring facility (On-spot) is out of order. Hence, this facility can not supply enough	amount of water for the residents. New water	l
l	supply faicility have a high beneficial effect.		
Man	no (Town sketchetc.):		
ivien	no (Town Sketchetc.) .		L
	04-01 & 02 Water source & Well spec.		
I	Well No.1; Estbsh on 1990 GL-30m / Conc. Caisson ID=600mm H=1,000mm / SWL	GL-??m / HP Silinder depth GL-29.6&29.0m	!
	Well No.2; Estbsh on 1990 GL-30m / Conc. Caisson ID=600mm H=1,000mm / SWI		!
	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	d (out of order Generator for well pump)	<u> </u>
I			
l	06-08 Water tariff rate		
	Residence buy water (2.0birr/20L) from Water saler who are coming from Doditi town	12km	
	1. Total Court (2.0011/202) from Water said: who are coming from Doubt town		L

Data 7.3 Small Town Profile of SNNPRS

S-58 Shento



S-59 Dalbo Atowa

	SNNPR				48 / 52		
	Name of small town :		Dalbo Atow	а	S- 59		
	Name of Woreda :		Sodo Zuria		SW- 38		
	Name of Zone :		Wolayita		SZ- 06		
		ofile items			Profile		•
01	Population	<u> </u>			. 101110		•
	1 -	/ female / total	by SNNPR			4,772	
		/ female / total	by Census 2007	80,525	83,246 1	63,771	
0.2	percentage of Town in Woreda	* / A 12 - A - A	T (NT	270 (00	7.0701	2.9%	
	Town Coordination UTN Town Status	(Adindan)	Easting / Northig / Alt.	370680 Town Administr	762721	2,144	
	Water Source			Town Administr	ation		
	04-01 Water source		Type, No.	Spring*1no. (5ki	m Tabala spring	g)	
	04-02 Well spec.	Dep	th., 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. nil.			
	04-05 Power source for motorized pump 04-06 Durartion of water draw (Operation		daily hours, time	24hors.			
	04-07 Water quality	in Hours)	Iron, Fluorideetc.	Good		***************************************	
	04-08 Other technical specimen			Spring source is s	shared with othe	r towns	!
05	Existing Water Supply Facilities		(Cropping11)	1996			
	05-01 Established year 05-02 Financial of implementation		(Gregorian calendar) Donor's name	World Vision			
	05-02 Financial of implementation (Project	name)	DOHOL S HAIRE	Dalbo water sup	ply project		
	05-04 Intake Type			Spring	F-2 F23		
	05-05 Intake No.			1no.			
	05-06 Conveyance Type (Water source -	- Reservoir)	Pipe material, length	GIP, 3", 5,000m			
	05-07 Power to convey		Pressure, Gravity	Gravity			
	05-08 Water treatment 05-09 Water treatment capacity		Disinfection, Ironetc.	nil. nil.			
	05-10 Water reserver type		Туре	ER			
	05-11 Water reserver No.		no.	lno.			
	05-12 Water reserver Capacity		m3	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, 3"*1,000m, 1"* Gravity	1/2*1,000m (Total	2,000m)	
	05-16 Power to distribute 05-17 Structure Type of water point (Pul	alic Faucat DE)	Pressure, Gravity RC, Masonry, Pipeetc.				
	05-18 Number of water point (Public Fa		no.	2			
	05-19 Number of faucet at a water point		no.	4FC*1PF, 2FC*	1PF		
	05-20 Average of daily water consumpti	on at a water point (PF)	m3/day	3m3/day			
	05-21 Number of House Connection (HC			nil.			
	05-22 Average of daily water consumption of		m3/day	nil.			
	05-23 Number of Business Conection (B 05-24 Type of Business Connection (BC		ol, Gov. office, Hospitaletc.	nil.			
	05-25 Average of daily water consumption of			nil.			
	05-26 Other technical specimen	(= 0,	mo, day				
06	Operation and Maintenace						
	06-01 Organization's name		· 17 E	Water committe			
	06-02 Type of organization 06-03 Number of thechnical staff	Re	egional, Zone, Enterpriceetc	Community base	ed organization		
	06-04 Principal works of technical staff			Plumbing			
	06-05 Number of the financial staff			2			
	06-06 Principal works of financial staff			Water sale at PF			
	06-07 Categories of water tariff	W.1	Point, House Connectionetc.	W. point			
	06-08 Water tariff rate		D: # 201	11: / 1.77	1 11		
	Water point (Public faucet) House connection		Birr/L, 20L	1birr/week/Hous nil.	enold		
	Business connection		Birr/m3 Birr/m3	nil.			
	06-09 Average monthly income by water	r tariff	Birr/month	1,200birr/month			
	06-10 Procurement of spare parts	at Town	n, Zonal Cap. Reg. Capetc.	Sodo			
	06-11 Principal spare parts		l filter, Fuel filter, Pipesetc	Pupes&fittings			
	06-12 Method in case of serious repair	by Regional	office, Private companyetc	nil.			
	06-13 Principal serious repair with 5-10			Woreda			
	06-14 Fund for above 6-09, 6-10	by Org	anization, Gov., Donorsetc.	Water committee	2		
	06-15 Other technical specimen						
1							

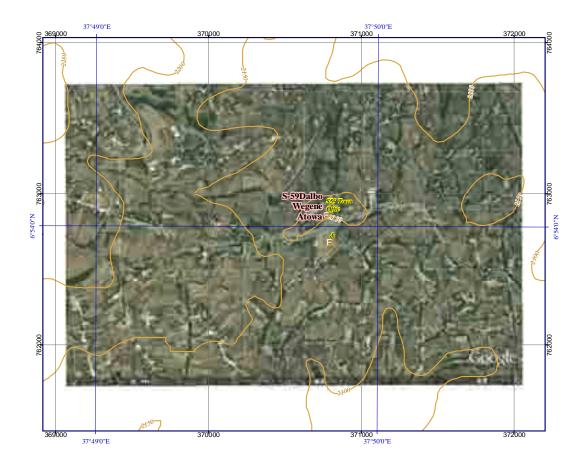
S-59 Dalbo Atowa

07	Ducklam of actual town victor annely	1		
07	Problem of actual town water supply 07-01 Technical			
	Water source Quantity, Qualityetc.	Wate r short	age	
	Water supply facility Decrepit, leakage, design failureetc		<u> </u>	·
	07-02 Finalcial			
	Management	Not grasped		1
	Rate of water tarrif collection	low		
	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			ļ
	Change in industry increase factory, Tradingetc.			ļ
	Human conflict Ethnic, Administrativeetc	nil.		ļ
	07-04 Other specimen			
Λe	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)	<u> </u>		
00	Town is on flat area	,		ł
	10 Will is off flat died			
				ļ
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			1

10	Current Water Coverage (%) (by water consumption at faucets)		6%	!
	(3m3*2PF+0m3*0HC+0m3*0BC)=6.0m3/day 6.0m3/20Lpcd.= 300persons 300persons / 4	4,772 populat	·	ļ <u>.</u>
	Current Water Coverage (%) (by data of water source product))		0%	ļ
	((??L)*3600sec.*8hrs)=???L/day ???/20Lcd=???persos ???persons/4772population=???%)		
11	Water Potential (A / B / C / D / E)		A	
10			D / A	<u> </u>
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 / A	<u>.</u>
	A=Road width > 6m /B= >3~6m / C= 1~3m / D= <1m Access road is Asphalt & Sub grade road 9km from Sodo. (=7.5+1.5km from Sodo)			
13			10	
13	water of the point of water Suppry Management by water office point		10	
14	Dgree of urgency (A / B / C / D / E)			
	Refer to Chapter 5 & 7		ļ.	
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.	illiology. The	sman town is on the	
16	Other Donors, NGO's			
	Refer to the Chapter 6			ļ
1.7	W. Pl. C	****		
17	Main Ethnic Group	Welayta, An	nhara	
10	Health conditions			
10	-1 Medical facilities in Town	Hoolth Conto	er, Private clinic, Health po	l
	-2 Nearest other facilities from Town km	13		131
	-3 Main patients of water born diseases persons / year	Dysentery	15	
	perions of vitter corn diseases			ļ
19	Main economic activities	Trade, Farm	ing, Livestock, Waving	
20	Particular comments :			
	The eixisting water supply facility is one spring (On-spot) where is located adjacent town and		-	
	facility can not supply enough amount of water for whole residents due to lack of capacity and	d decrept. He	nce, New water supply	ļ
	faicility have a high beneficial effect.			<u> </u>
21	Remarks:		0010060000	
	Mr. Mesfin Belete Kebele Cl			
	Mr. Pawlos Gizaw Water co			<u> </u>
M	Mr. Kebede Uchile Water co	mmittee cash	E1 U910832893	
wien	no (Town sketchetc.):	1		
	-			
	•			
	- -			
	• • •			
	- - -			
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Data 7.3 Small Town Profile of SNNPRS

S-59 Dalbo Atowa



S-60 Lanite

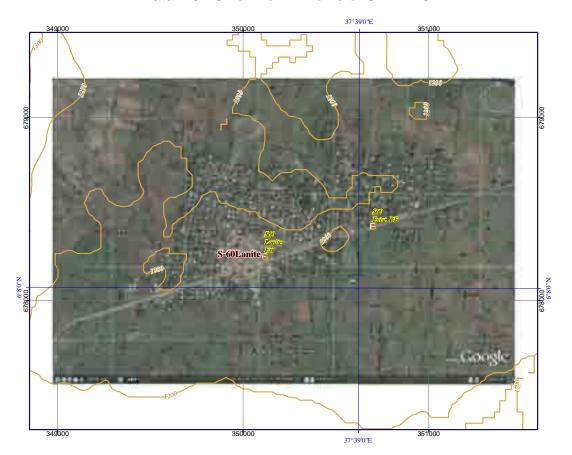
	SNNPR			49 / 52
Nan	ne of small town	•	Lanite	S- 60
Nan	ne of Woreda	:	Arba Minch Zu	ıria SW- 39
Nan	ne of Zone		Gamo Gofa	SZ- 07
		Profile items		Profile
Popul	lation			
Topul	Town	male / female / total	by SNNPR	3,566 3,655 7,221
	Woreda	male / female / total	by Census 2007	82,751 82,929 165,680
	percentage of Town in Wor	reda	•	4.4%
Town	Coordination	UTM (Adindan)	Easting / Northig / Alt.	350026 678098 1,198
	Status			Kebele Adiministration
	r Source			
	Water source		Type, No.	Well*1no. GL-100m / 6" / SWL GL-?? m
	Well spec.		Depth., Casing Dia., S.W.L	GL-100m / 6" / SWL GL-?? m Pump
	Methor of water draw Pump Spec.		Pump, Gravity Type, Yield	Motorized pump (15kw)
\$	Power source		Type, Kva	Commercial Elec.
-	Durartion of water draw		daily hours, time	07:00-12:00, 15:00-19:00 (9hrs./day)
	Water quality		Iron, Fluorideetc.	Good
	Other technical specimen			
	ing Water Supply Facilities			
	Established year		(Gregorian calendar)	1998 / 2008
	Financial of implementation	n	Donor's name	SNNPR
	Name of implementation		the state of the s	Lanite water project
	Intake Type Intake No.			Well 1 no.
	Conveyance Type (Water s	ouego Pasaeroje)	Pipe material, length	GIP, 3", 1,500m
	Power to convey	ource ~ Reservoir)	Pressure, Gravity	Pressure
ļ	Water treatment		Disinfection, Ironetc.	nil.
***************************************	Water treatment capacity		m3/day	nil.
	Water reserver type		Туре	GR
	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.
	Power to transmit		Pressure, Gravity	nil.
***********	Distribution Type		Pipe material, length	4,640m
	Power to distribute		Pressure, Gravity	Gravity
	Structure Type of water poi		RC, Masonry, Pipeetc.	
	Number of water point (Pul Number of faucet at a water		no.	7 (+4 public shower) 4FC*3PF, 2FC*4PF
		sumption at a water point (PF)	m3/day	1.3m3/day
	Number of House Connecti		III3/day	105
		nption of House Connection(HC)	m3/day	0.143m3/day
***************************************	Number of Business Conec	-	1110, day	10
05-24	Type of Business Connection	on (BC) Factory, School	ol, Gov. office, Hospitaletc.	School*3, Chrch*5, Health Ctr*2
05-25	Average of daily water consum	ption of Business Connection (BC)	m3/day	0.51m3/day
05-26	Other technical specimen			
	ation and Maintenace			W.
ļ	Organization's name		sissal Zana E	Water comitee
	Type of organization	Re	gional, Zone, Enterpriceetc.	Community Based Organization
	Number of thechnical staff Principal works of technica	l etaff		Pump operation, Plumbing
	Number of the financial sta			8
	Principal works of financia			Water mater read, Bill
	Categories of water tariff		Point, House Connectionetc.	W. Point, House, Buisiness Connection
	Water tariff rate		,,	,,
	Water point (Public faucet)		Birr/L, 20L	0.1 birr/20L
	House connection		Birr/m3	0~10m3=3.0birr/m3, 10m3~=3.5birr/m3
	Business connection		Birr/m3	0~10m3=3.0birr/m3, 10m3~=4.0birr/m3
	Average monthly income b		Birr/month	2,500birr/month
	Procurement of spare parts		, Zonal Cap. Reg. Capetc.	
	Principal spare parts		l filter, Fuel filter, Pipesetc	
06-12	Method in case of serious r	<u> </u>	office, Private companyetc	
	Principal serious repair with			Pump burned

S-60 Lanite

	06-15 Other technical specimen			
07	Problem of actual town water supply			
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	l
	07-02 Finalcial		Z	
	Management	Shortage skk	iled staff (Tech.&Admin.)	
	Rate of water tarrif collection	Rate of water	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			ļ
	Increase in population to consume water coming from other towns, villagesetc			ļ
	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		0.451	<u> </u>
10	Current Water Coverage (%) (by water consumption at faucets)	700 -	24%	ļ
	(1.3m3*11PF+0.143m3*105HC+0.51m3*10BC)=34.4m3 34.4m3/20Lpcd.= 1720persons 1	/20persons/7	·	
	Current Water Coverage (%) (by data of water source product)) ((??L)*3600sec.*??hrs)=???L/day ???/20Lcd=???persos ???persons/7221population=??%	,	??%	
11	Water Potential $(A/B/C/D/E)$	0	С	
11	water Fotential (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			
1.5	N W. A C al Dl			
15	New Water Supply Plan			ļ
	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			
	No Donors, NGO			
17	Main Ethnic Group	Gamo		
10	TT141 1'4'			
10	Health conditions -1 Medical facilities in Town	Haalth Canta	r, Private clinic	
	-2 Nearest other facilities from Town km	16	i, Fiivate chine	
	-3 Main patients of water born diseases persons / year	Mararia	700	
		Typhoid	500	
19	Main economic activities	Farming		
20	Particular comments :			
21	D. I			
21	Remarks:			
				l
Men	no (Town sketchetc.):			
		I		£
	-			
	-			
	•			

Data 7.3 Small Town Profile of SNNPRS

S-60 Lanite



S-61 Gewada

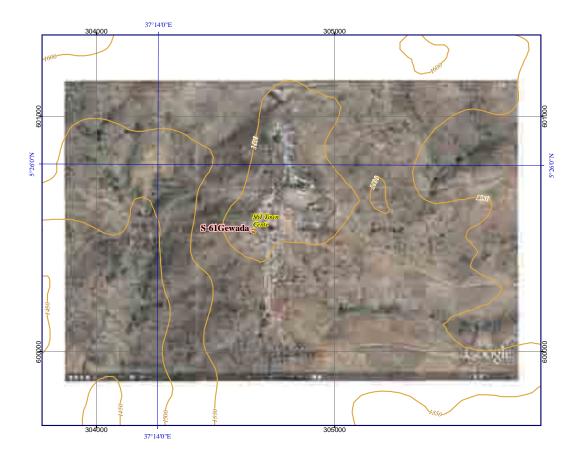
SNNPR				50 /		
Name of small town	:	Gewada		S- 6		ļ
Name of Woreda	•	Konso Spec		SW- 3	0	ļ
Name of Zone	•	Gamo Gofa	3	SZ- 0	7	
	Profile items			Profile		
Population						
*	male / female / total	by SNNPR	?	?	8,400	
Woreda	male / female / total	by Census 2007	113,353	121,634	234,987	ĺ
percentage of Town in Wored	a				3.6%	
	UTM (Adindan)	Easting / Northig / Alt.	304567	600363	1,612	
Town Status			Town Adminis	stration		L
Water Source 04-01 Water source		Type, No.	Surface water,	emall river		
04-01 Water source 04-02 Well spec.		Denth., Casing Dia., S.W.L	<u> </u>	Siliali livei		-
04-03 Methor of water draw		Pump, Gravity	nil.			-
04-04 Pump Spec.		Type, Yield	nil.			r
04-05 Power source		Type, Kva	nil. (No elec. F	For Town)		
04-06 Durartion of water draw		daily hours, time	nil.			
04-07 Water quality		Iron, Fluorideetc.	Not grasped			
04-08 Other technical specimen						L
E.C. W. G. L. P. W.						L
Existing Water Supply Facilities		(Crossian a-11)	nil			L
05-01 Established year 05-02 Financial of implementation		(Gregorian calendar) Donor's name	nil. nil.			-
05-03 Name of implementation		DOHOL S HAIRE	nii.			
05-04 Intake Type			nil.			H
05-05 Intake No.			nil.			ļ
05-06 Conveyance Type (Water sou	rce ~ Reservoir)	Pipe material, length	nil.			·
05-07 Power to convey		Pressure, Gravity	nil.			Γ
05-08 Water treatment		Disinfection, Ironetc.	nil.			
05-09 Water treatment capacity		m3/day	nil.			L
05-10 Water reserver type		Type	nil.			L
05-11 Water reserver No.		no.	nil. nil.			ļ
05-12 Water reserver Capacity 05-13 Transmission Type (Booster p	numa Cta Docomicia)	m3 Pipe material, length	nil.			
05-14 Power to transmit	oump Sui. ~ Reservoir)	Pressure, Gravity	nil.			
05-14 Tower to transmit 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.			Г
05-18 Number of water point (Public		no.	nil.			
05-19 Number of faucet at a water p		no.	nil.			
05-20 Average of daily water consu		F) m3/day	nil.			
05-21 Number of House Connection			nil.			Ĺ.,
05-22 Average of daily water consumpt		C) m3/day	nil.			
05-23 Number of Business Conection 05-24 Type of Business Connection		ool, Gov. office, Hospitaletc	nil.			ļ
05-24 Type of Business Connection 05-25 Average of daily water consumption			nil.			-
05-26 Other technical specimen		-, morady				H
s s s s s s s s s s s s s s s s s s s						r
Operation and Maintenace						Г
06-01 Organization's name			nil.			Ĺ
06-02 Type of organization	I	Regional, Zone, Enterpriceetc				Ĺ
06-03 Number of thechnical staff			nil.			L
06-04 Principal works of technical s	tatt		nil.			L
06-05 Number of the financial staff	off		nil.			ļ
06-06 Principal works of financial st 06-07 Categories of water tariff		7.Point, House Connectionetc	nil.			-
06-08 Water tariff rate	YV	.i omt, House Connectionetc	11111.			H
Water point (Public faucet)		Birr/L, 20L	nil.			H
House connection		Birr/m3	nil.			ļ
Business connection		Birr/m3	nil.			ľ
06-09 Average monthly income by v	vater tariff	Birr/month	nil.			Γ
06-10 Procurement of spare parts		wn, Zonal Cap. Reg. Capetc.	nil.			
06-11 Principal spare parts		Oil filter, Fuel filter, Pipesetc				
06-12 Method in case of serious rep		al office, Private companyetc				L
06-13 Principal serious repair with 5	-10 years		nil.			i

S-61 Gewada

Oracle Content Conte		06-15 Other technical specimen			
OP-02 Technical Water source Quantity Quality etc.	07	Problem of actual town water supply			
Water supply facility Decrepit, leakage, design failureetc all. 07-02 Finalical and Management		07-01 Technical			
University Comparison Com			-1		
Management Rate of water turn's collection Rate of water turn's collection nil.			.nıl.		
Personnel expenses nil.			nil.		
Shortage of budget to execute operation & maintenace 07-03 Other incidential, Special specimen Increase in population to consume water coming from other towns, villages,etc. Not grasp Increase in population to consume water coming from other towns, villages,etc. Not grasp Increase in population to consume water Change in industry Change in		Rate of water tarrif collection	nil.		
D7-03 Other incidentials, Special sp					
Increase in population to consume water coming from other towns, villages,dc. Not grasp Change in industry increase factory. Tradingdc. Not grasp Human conflict Ethnic, Administrativedt O7-04 Other technical specimen (Slope on mountaion, bottom of valley, Top of ridgedec.) Geographical condition (Slope on mountaion, bottom of valley, Top of ridgedec.)			nil.		
Change in industry Human conflict Human conflict Schoic, Administrativeetc Nor grasp 77-04 Other technical specimen 88 89 80 80 80 80 80 80 80 80			Not grasp		
Human conflict Fishic, Administrativeetc Not grasp					
Segraphical condition (Slope on mountaion, bottom of valley, Top of ridgeetc.)					
Town: Slope of ridge, rolling, up and down Town: Slope of ridge, rolling, up and down Water source (well) with pump + Convayance Pipe line + Reservoir Tank + Distribution pipe lines + Water point (Public Faucets) Refer to Chapter 4 Table 4.7" O%		07-04 Other technical specimen			
Town: Slope of ridge, rolling, up and down Town: Slope of ridge, rolling, up and down Water source (well) with pump + Convayance Pipe line + Reservoir Tank + Distribution pipe lines + Water point (Public Faucets) Refer to Chapter 4 Table 4.7" O%	U6	Consenhing andition (Clare on mountain bottom of valley Ton of sides at a)			
Necessary Institution (Facility, Material) Water source (well) with pump - Gonvayance Pipe line + Reservoir Tank + Distribution piple lines + Water point (Public Faucets) Refer to Chapter 4 "Table 4.7" 10	00)		
Water source (well) with pump + Convayance Pipe line + Reservoir Tank + Distribution piple lines + Water point (Public Faucets) Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) (by water consumption at faucets) 11 Water Potential (A / B / C / D / E) 12 Accessibility (A / B / C / D / E) 13 A=Asphalt/B=Base Course C=Sub Grade D=Only Dry Season E=Not Approached 14 C / D 15 A=Cossibility (A / B / C / D / E) 16 A=Cossibility of Water Supply Management by Water Office point) 17 Manpower Capability of Water Supply Management by Water Office point) 18 New Water Supply Plan 19 The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hill construction works is required some ingenuities arround water sources. 19 Main Ethnic Group 10 Ale, Gewada 11 Medical facilities in Town 12 Nearest other facilities from Town 13 Main patients of water born diseases 14 Paelits of Main patients of water born diseases 15 Persons / year 16 Other Donors, NGO's 17 Main Ethnic Group 18 Health Center, Private clinic, Drug sterms of the properties of the private clinic, Drug sterms of the properties of the private clinic, Drug sterms of the properties of the private clinic, Drug sterms of the properties		Town to stope of rings, to ming, up and down			
Water source (well) with pump + Convayance Pipe line + Reservoir Tank + Distribution piple lines + Water point (Public Faucets) Refer to Chapter 4 "Table 4.7" 10 Current Water Coverage (%) (by water consumption at faucets) 11 Water Potential (A / B / C / D / E) 12 Accessibility (A / B / C / D / E) 13 A=Asphalt/B=Base Course C=Sub Grade D=Only Dry Season E=Not Approached 14 C / D 15 A=Cossibility (A / B / C / D / E) 16 A=Cossibility of Water Supply Management by Water Office point) 17 Manpower Capability of Water Supply Management by Water Office point) 18 New Water Supply Plan 19 The facility can be designed in an Ethiopian standard, whichis not required more advanced technology. The small town is on the hill construction works is required some ingenuities arround water sources. 19 Main Ethnic Group 10 Ale, Gewada 11 Medical facilities in Town 12 Nearest other facilities from Town 13 Main patients of water born diseases 14 Paelits of Main patients of water born diseases 15 Persons / year 16 Other Donors, NGO's 17 Main Ethnic Group 18 Health Center, Private clinic, Drug sterms of the properties of the private clinic, Drug sterms of the properties of the private clinic, Drug sterms of the properties of the private clinic, Drug sterms of the properties					
Current Water Coverage (%) (by water consumption at faucets) Current Water Coverage (%) (by data of water source product)) Owe water Source Product) Water Potential (A/B/C/D/E) A=Road Width > 6m/B=>36m/C= 1-3m/D=< Im Access ibility (A/B/C/D/E) A=Road Width > 6m/B=>36m/C= 1-3m/D=< Im Access road is Asphalt & Sub Grade 3 Sokm Knoso. (=30 Sokm+6km) * Refer to Chapter 5 "Table 5-7: Categories of accessibility" Manpower Capability of Water Supply Management by Water Office point) Opered 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 technology. The small town is on the hills construction works is required some ingenuities arround water sources. Other Donors, NGO's No donnors, NGO Water Supply Plan 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. If Other Donors, NGO's No donnors, NGO Water Supply Plan 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. If Other Donors, NGO's No donnors, NGO's No donnors, NGO Ale, Gewada Health Center, Private clinic, Drug steeps of the properties of the private clinic, Drug steeps of the private clinic, Drug steeps of the private clinic of the private clinic, Drug steeps of the private clinic of the private clinic, Drug steeps of the private clinic of the private clinic, Drug steeps of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private clinic of the private cli	09		lines + Water	point (Public Fauce	ets)
Current Water Coverage (%) (by data of water source product)) Water Potential (A/B/C/D/E) 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 Access road is Asphalt & Sub Grade 36km Konso. (208km Konso. (2		Refer to Chapter 4 "Table 4.7"			
Water Potential (A/B/C/D/E) C	10	Current Water Coverage (%) (by water consumption at faucets)		0%	!
Water Potential (A/B/C/D/E) C	l				
Accessibility (A / B / C / D / E)		Current Water Coverage (%) (by data of water source product))		0%	
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: Categories of accessibility" Manpower Capability of Water Supply Management by Water Office point) 0 14	11	Water Potential (A/B/C/D/E)		C	
Access road is Asphalt & Sub Grade 36km Konso. (=30km+6km) * Refer to Chapter 5 "Table 5-7: Categories of accessibility" 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 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 hills construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's No donnors, NGO 17 Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Mararia 2,500 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. Collection of water fee from residents is quifficult in term of their income amount.	12		Approached	C/D	
Manpower Capability of Water Supply Management by Water Office point) 0			. 5 7. C-t	f:1:11:4-!!	
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 hills construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's No donnors, NGO 17 Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town Main patients of water born diseases persons / year Mararia 2,500 Typhoid 2,000 Dysentery 1,000 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. Collection of water fee from residents is quifficult in term of their income amount.	13		e 5-7: Categori	•	
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 hills construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's No donnors, NGO Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town Amain patients of water born diseases persons / year Mararia 2,500 Dysentery 1,000 Dysentery 1,000 Dysentery 1,000 Dysentery 1,500 Particular comments: This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is q difficult in term of their income amount.	13	Manpower Capability of Water Suppry Management by Water Strice (count)		•	
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 hills construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's No donnors, NGO Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town Amain patients of water born diseases persons / year Mararia 2,500 Dysentery 1,000 Dysentery 1,000 Dysentery 1,000 Dysentery 1,500 Particular comments: This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is q difficult in term of their income amount.					
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 hills construction works is required some ingenuities arround water sources. Other Donors, NGO's	14				
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. 16 Other Donors, NGO's No donnors, NGO Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town -3 Main patients of water born diseases persons / year Mararia 2,500 Dysentery 1,000 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. Collection of water fee from residents is quifficult in term of their income amount.		Refer to Chapter 5 & 7			
construction works is required some ingenuities arround water sources. 16 Other Donors, NGO's No donnors, NGO 17 Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Mararia 2,500 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. Collection of water fee from residents is quifficult in term of their income amount.	15	New Water Supply Plan			
16 Other Donors, NGO's No donnors, NGO 17 Main Ethnic Group Ale, Gewada 18 Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Mararia 2,500 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. Collection of water fee from residents is quifficult in term of their income amount. 21 Remarks:			hnology. The	small town is on the	hills,
No donnors, NGO Main Ethnic Group					
17 Main Ethnic Group	16				
Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Mararia 2,500 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. Collection of water fee from residents is quifficult in term of their income amount.		No dollilors, NGO			
-1 Medical facilities in Town	17	Main Ethnic Group	Ale, Gewada		
-1 Medical facilities in Town	18	Health conditions			
-2 Nearest other facilities from Town km -3 Main patients of water born diseases persons / year Mararia 2,500 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. Collection of water fee from residents is q difficult in term of their income amount.	10		Health Center	, Private clinic, Dru	g store
Typhoid 2,000 Dysentery 1,000 others 1,500 Main economic activities Particular comments: This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is q difficult in term of their income amount. Remarks:					
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. Collection of water fee from residents is q difficult in term of their income amount.		-3 Main patients of water born diseases persons / year			
Main economic activities Particular comments: This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is q difficult in term of their income amount. Remarks:					
20 Particular comments: This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is q difficult in term of their income amount. 21 Remarks:					
This small town is a priority of improvement of accessibility for operation & maintenance. Collection of water fee from residents is q difficult in term of their income amount. 21 Remarks:	19	Main economic activities		-	
difficult in term of their income amount. 21 Remarks:	20	Particular comments :			
21 Remarks :		This small town is a priority of improvement of accessibility for operation & maintenance. Col	lection of water	er fee from residents	is quite-
		difficult in term of their income amount.			parameter and a second
Memo (Town sketchetc.) :	21	Remarks :			
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S-61 Gewada



S-62 Usada

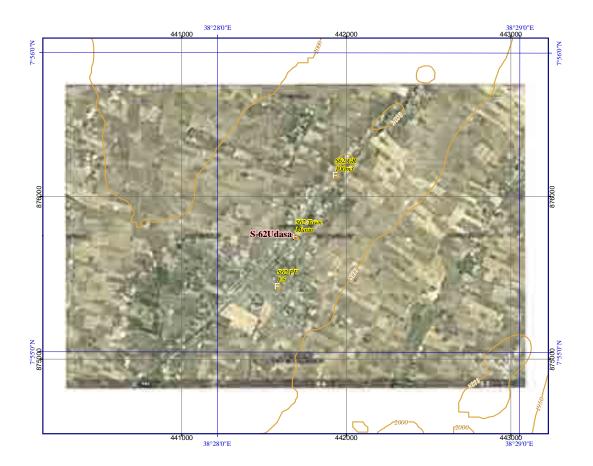
	SNNPR Name of small town :	Usada	51 / 52 S- 62	_
	Name of Woreda :	Silti	SW- 32	
	Name of Zone :	Silte	SZ- 08	
	Profile items		Profile	!
1	Population			
	Town male / female / total	by SNNPR	2,306 2,164 4,470	
	Woreda male / female / total	by Census 2007	87,583 89,740 177,323	
_	percentage of Town in Woreda	E C /N d' /AL	2.5%	
_	Town Coordination UTM (Adindan) Town Status	Easting / Northig / Alt.	441600 875629 2,040 Municipality	U
	Water Source		Municipanty	
•	04-01 Water source	Type, No.	Well*1no.	-
	04-02 Well spec.		dGL-234m, 6*5/8", GL-??m, 3.4L/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.	
	04-06 Durartion of water draw (Operation hours)	daily hours, time	08:00~14:00 (6hrs./day)	
	04-07 Water quality	Iron, Fluorideetc.	Floride	!
	04-08 Other technical specimen			
5	Evicting Water Supply Facilities			+
J	Existing Water Supply Facilities 05-01 Established year	(Gregorian calendar)	1999	
	05-07 Established year 05-02 Financial of implementation	Donor's name	SNNPR, Girarbe Ledikma	
	05-02 Prinancial of Implementation (Project name)	Donor 5 name	Dure Sidist Water Supply Project	+
	05-04 Intake Type		Well	
	05-05 Intake No.		lno.	
	05-06 Conveyance Type (Water source ~ Reservoir)	Pipe material, length	GIP, 2", 2,000m	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.	1no.	
	05-12 Water reserver Capacity	m3	nil.	
	05-13 Transmission Type (Booster pump Stn. ~ Reservoir) 05-14 Power to transmit	Pipe material, length Pressure, Gravity	nil.	
	05-15 Distribution Type	Pipe material, length	See below	_
	05-16 Power to distribute	Pressure, Gravity	See below memo	
	05-17 Structure Type of water point (Public Faucet, PF)	RC, Masonry, Pipeetc		
	05-18 Number of water point (Public Faucet, PF)	no.	7	
	05-19 Number of faucet at a water point (Public Faucet, PF	no.	6FC*2PF, 4FC*5PF	
	05-20 Average of daily water consumption at a water point	(PF) m3/day	2.4m3/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.	
		School, Gov. office, Hospitaletc		\perp
	05-25 Average of daily water consumption of Business Connection	(BC) m3/day	nil.	
	05-26 Other technical specimen			+
5	Operation and Maintenace			+
-	06-01 Organization's name		Water committee	+
	06-02 Type of organization	Regional, Zone, Enterpriceetc	Community based organization	1
	06-03 Number of thechnical staff		1	
	06-04 Principal works of technical staff		Pump operation	1
	06-05 Number of the financial staff		2	
	06-06 Principal works of financial staff		Water sale at Water point	\perp
	06-07 Categories of water tariff	W.Point, House Connectionetc	. W. Point	-
	06-08 Water tariff rate Water point (Dublic found)	D:/I 20I	0.25birr/25L	
	Water point (Public faucet) House connection	Birr/L, 20L Birr/m3	nil.	
	House connection Business connection	Birr/m3	nil.	-
	06-09 Average monthly income by water tariff	Birr/month	7,000birr/month	+
		Town, Zonal Cap. Reg. Capetc		
	06-11 Principal spare parts at 06-11 Principal spare parts	Oil filter, Fuel filter, Pipesetc		+
		ional office, Private companyetc		+
	06-13 Principal serious repair with 5-10 years	since, in the companyeu	Pump burned	\top
		Organization, Gov., Donorsetc		+
	06-15 Other technical specimen	, , , , , , , , , , , , , , , , , , , ,		1

S-62 Usada

07				
	Problem of actual town water supply			
	07-01 Technical			
	Water source Quantity, Qualityetc.	Shrtage wat	er	
	Water supply facility Decrepit, leakage, design failure	etc Design failu	ire (elevation)	
	07-02 Finalcial			*
	Management	Not grasp		
	Rate of water tarrif collection	Not grasp		
	<u> </u>			
	Personnel expenses	Not grasp		
	Shortage of budget to execute operation & maintenace	Shourtage b	udget for O&l	ļ
	07-03 Other incidential, Special specimen			
	Increase in population to consume water coming from other towns, villages	etc Coming from	m villagers	
	Change in industry increase factory, Tradinge	tc. Increase wh	eat trading	
	Human conflict Ethnic, Administrative			
	07-04 Other specimen	CICIIII.		ł
	07-04 Other specifier			
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgee	tc.)		<u> </u>
	Flat area, slightly lifted towards south.			
09	Necessary Institution (Facility, Material)			
	Refer to Chapter 4 "Table 4.7"			†
	Total to Chapter 1 Tubb 1.7			
				
				1
10	Current Water Coverage (%) (by water consumption at faucets)		20%	J
		sons / 4,470 po	pulation = 20%	<u> </u>
	Current Water Coverage (%) (by data of water source product))		110%	
	((3.4L)*3600sec.*8hrs)=97920L/day 97920/20Lcd=4896persos 4896persons/4470popu	lation=110%		1
11	Water Potential $(A/B/C/D/E)$	110/0	В	
11	WAREI FREIHIAI (A/D/C/D/E)		ь	╁
	1. T. T. (A (D (G (D (D))))) 1. T. T. T. T. T. T. T. T. T. T. T. T. T.	.T. A	T = 15	1
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=D	Not Approached	B / B	<u> </u>
	A=Road Width $> 6m /B = >3 \sim 6m / C = 1 \sim 3m / D = <1m$			
	Access road is Sub Grade 37km from Butajira. * Refer to Chapter 5 "Table 5-7: Categorie	s of accessibilit	y"	
13	Manpower Capability of Water Supply Management by Water Office (point)		6	
				-
				ļ
			1	1
14	Dgree of urgency (A / B / C / D / E)			<u> </u>
	Refer to Chapter 5 & 7			<u> </u>
15	New Water Supply Plan			
	The facility can be designed in an Ethiopian standard, which is not required more advanced	technology Th		
		teennology. Th	e small town is on the	
	generally flat terrains, construction work is not difficult.	ceimology. Th	e small town is on the	
16		ecomology. The	e small town is on the	
16	Other Donors, NGO's		e small town is on the	
16		eeimology. The	e small town is on the	
	Other Donors, NGO's nil.		e small town is on the	
	Other Donors, NGO's	Silte	e small town is on the	
	Other Donors, NGO's nil.		e small town is on the	
17	Other Donors, NGO's nil.		e small town is on the	
17	Other Donors, NGO's nil. Main Ethnic Group Health conditions	Silte		
17	Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	Silte Private clini	ic, Drug store, Health Post	
17	Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Silte Private clini	ic, Drug store, Health Post	
17	Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town	Silte Private clini	ic, Drug store, Health Post	
17	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	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17	Other Donors, NGO's nil. Main Ethnic Group Health conditions -1 Medical facilities in Town -2 Nearest other facilities from Town km	Silte Private clini	ic, Drug store, Health Post 5 400	
17 18	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	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17 18	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	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17 18	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	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17 18	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	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17 18	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	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17 18 19 20	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 Particular comments:	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400	
17 18 19 20	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 Particular comments:	Silte Private clini 35 Mararia	ic, Drug store, Health Post 5 400 rade	
17 18 19 20	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 persons / year Main economic activities Particular comments: Remarks: Mr. Shemsu Aman	Silte Private clini 35 Mararia Farming, Tr	ic, Drug store, Health Post 5 400 rade	
17 18 19 20	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 persons / year Main economic activities Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water si	Silte Private clini 35 Mararia Farming, Tr	ic, Drug store, Health Post 5 400 rade	
17 18 19 20	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 persons / year Main economic activities Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water si	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water sono (Town sketchetc.):	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 persons / year Main economic activities Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water so no (Town sketchetc.):	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 persons / year Main economic activities Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water so no (Town sketchetc.):	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	
17 18 19 20	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 Particular comments: Remarks: Mr. Shemsu Aman Mr. Fichago Nuri Chairma Mr. Seman Yasin Water some (Town sketchetc.): O5-15 Distribution Type GIP 3"=2,600m PVC 1"=249m	Silte Private clini 35 Mararia Farming, Tr	0913-796-601 0911-341-721	

Data 7.3 Small Town Profile of SNNPRS

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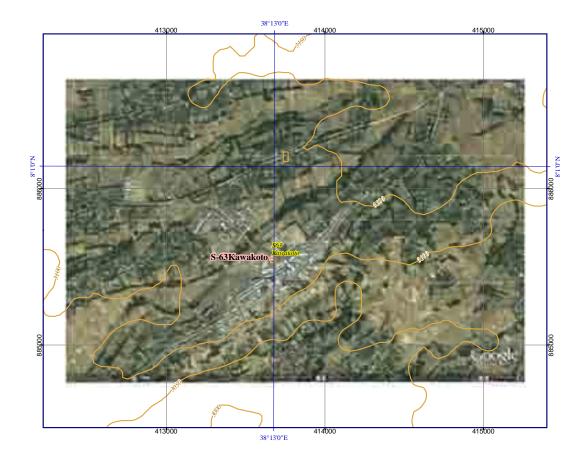
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	SNNPR				52 / 9	52	
	Name of small town	:	Kawakoto		S- 63	3	
	Name of Woreda	:	Alicho Wuri	ro	SW- 40	0	
	Name of Zone	:	Silte		SZ- 08	8	
		Profile items			Profile		!
01	Population						
	Town	male / female / total	by SNNPR	447	336	783	
	Woreda	male / female / total	by Census 2007	42,024	50,445	92,469	
02	percentage of Town in Wor Town Coordination	eda UTM (Adindan)	Easting / Northig / Alt.	413574	885422	0.8% 1,718	
	Town Status	U I W (Adilidali)	Easting / Northing / Ait.	Municipality	003422	1,/10	
	Water Source			umerpunty			
	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 nil.			
	04-04 Pump Spec. 04-05 Power source for motorized	Inumn	Type, Yield Type, Kva	nil.			
	04-06 Durartion of water draw (O		daily hours, time	09:00-11:00 (2	2hrs./day)		!
	04-07 Water quality	<u>F</u>	Iron, Fluorideetc.	Good		***************************************	
	04-08 Other technical specimen						
0.7							
05	Existing Water Supply Facilities 05-01 Established year		(Gregorian calendar)	2008			
	05-01 Established year 05-02 Financial of implementation	n	Donor's name	Action Aid (N	GO)		
	05-03 Name of implementation (F		Donor's name	Anchule water			
	05-04 Intake Type			Spring	1. 3		
	05-05 Intake No.			lno.			
	05-06 Conveyance Type (Water s	ource ~ Reservoir)	Pipe material, length	GIP, 1*1/2", 1	??m		
	05-07 Power to convey		Pressure, Gravity	Gravity			
	05-08 Water treatment		Disinfection, Ironetc.	nil. nil.			
	05-09 Water treatment capacity 05-10 Water reserver type		m3/day Type	mi. GR			
	05-10 Water reserver No.		no.	lno.		***************************************	
	05-12 Water reserver Capacity		m3	5m3			
	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		Pipe material, length		*1/2"*12m To	tal 14m	
	05-16 Power to distribute 05-17 Structure Type of water poi	int (Dublic Foundt DE)	Pressure, Gravity RC, Masonry, Pipeetc.	Gravity			
	05-18 Number of water point (Pul		no.	1			
	05-19 Number of faucet at a water			6			
	05-20 Average of daily water con			4.2m3/day			
	05-21 Number of House Connecti			nil.			
	05-22 Average of daily water consur		HC) m3/day	nil.			
	05-23 Number of Business Conec		1 1 G 95 H 11	nil.			
	05-24 Type of Business Connection 05-25 Average of daily water consum		chool, Gov. office, Hospitaletc BC) m3/day	nil.			
	05-26 Other technical specimen	Paon or Business Connection (DC) III3/uay	1111.			
	35 2 5 3					***************************************	
06	Operation and Maintenace						
	06-01 Organization's name				ele water supp		
I	06-02 Type of organization		Regional, Zone, Enterpriceetc		ased organizati	on	
	06-03 Number of thechnical staff 06-04 Principal works of technica	l staff		nil. nil.			
	06-04 Principal Works of technica 06-05 Number of the financial sta			nii. 1			
I	06-06 Principal works of financia			water sale			
	06-07 Categories of water tariff		W.Point, House Connectionetc				
I	06-08 Water tariff rate						
I	Water point (Public faucet)		Birr/L, 20L	0.1birr/20L			
I	House connection		Birr/m3	nil.			
	Business connection 06-09 Average monthly income b	v water tariff	Birr/m3 Birr/month	nil. 700birr/month			
I	06-09 Average monthly income b 06-10 Procurement of spare parts		own, Zonal Cap. Reg. Capetc.				
	06-11 Principal spare parts	at 1	Oil filter, Fuel filter, Pipesetc		iter meter		
I	06-12 Method in case of serious r	epair by Regio	onal office, Private companyetc				
	06-13 Principal serious repair with	h 5-10 years	***************************************	nil.			
I	06-14 Fund for above 6-09, 6-10	by (Organization, Gov., Donorsetc				
I	06-15 Other technical specimen			Water commit	tee		
I							

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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 failuree	tc Design failure	
	07-02 Finalcial		
	Management	Not grasped	!
	Rate of water tarrif collection	ok	!
	Personnel expenses	free	!
	Shortage of budget to execute operation & maintenace	Shortage water	!
	07-03 Other incidential, Special specimen		
	Increase in population to consume water coming from other towns, villagese		
	Change in industry increase factory, Tradinget		
	Human conflict Ethnic, Administrativeer	tc ni.	
	07-04 Other specimen		
08	Geographical condition (Slope on mountaion, bottom of valley, Top of ridgeetc Town is on the flat area.	2.)	
	Town is on the frat area.		
09	Necessary Institution (Facility, Material)		
0)	Additional reservoir tank for 20m3*1no. (example; 20Lcd*800persons=16m3, 30Lcd*800=	=24m3)	
	Additional Water points & distribution pipe lines. (1-2 Water points)	2.1110)	
	Table 1 and		
10	Current Water Coverage (%) (by water consumption at faucets)	27%	
	(4.2m3*1PF+0m3*0HC+0m3*0BC)=4.20m3/day 4.20m3/20Lpcd.= 210persons 210pers	sons / 783 population = 27%	
1	Current Water Coverage (%) (by data of water source product))	99%	
	((0.18L)*3600sec.*24hrs)=15552L/day 15552/20Lcd=777persos 777persons/783populat	tion=99%	
11	Water Potential (A / B / C / D / E)	A	
L		<u> </u>	
12	Accessibility (A / B / C / D / E) A=Asphalt/B=Base Course/C=Sub Grade/D=Only Dry Season/E=N	fot Approached B / B	
	A=Road Width > $6 \text{m /B} = 3 \sim 6 \text{m / C} = 1 \sim 3 \text{m / D} = <1 \text{m}$		
	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		
1.5	N. W. G. J. Di		
15	New Water Supply Plan		
	The facility can be designed in an Ethiopian standard, whichis not required more advanced to	echnology. The small town is on the	ne
	generally flat terrains, construction work is not difficult.		
16	Other Donors, NGO's		
10	Not grasped		
17	Main Ethnic Group	Silte	
	*		
18	Health conditions		
	-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	
L_		Typhoid 802	
19	Main economic activities	Farming	
20	Doutionlan comments t		-
20	Particular comments:	une.	
1	Town population is less than 2,000 persons in accordance with list of the candidate small tow	¥115.	
21	Remarks:		
21	KUIIdiks .		
	Mr. Abdela Musteffa Wate	r & mines process owner Mob. 09	163927
		mmittee chair person Mob. 091014	
Men	no (Town sketchetc.):	minutee chair person wide. 69101	2213
IVICI	iio (Town sketchetc.)		L
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Data 7.4 Approximate Scale of the Water Supply Facilities and the Project Cost for 82 Small Towns (1/3)

						Data																		iali TOW	/ns (1/3)	Water coverage	Out of water		Beneficiary population* E	Reneficiany ratio
	SNNPRS (521	owns)		Town p	opulation	n Tub	oe well	F	ump	Ger	erator	Genera	tor House	Convayand	ce pipe line	Water Re	servoir tank	Transmis	sion pipe line	Distribu	tion pipe line	Publ	lic faucets	Implementation	Project cost (Incl. consulting	(2010)	coverage	Population	(2015)	(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	Total	Q'ty	Cost	COSE	service)	20lpcd	100 – Water coverage	2015		
No. Zone	Woreda		Small Town	2010	2015		Yen75,84/\$		Yen75,84/\$,	/en75,84/\$		Yen75,84/\$		Yen75,84/\$	١	ren75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	1	2	3	4	(5)	6	7
				Pe	rsons	nos.	\$	nos.	\$	nos.	\$	nos.	\$	m	\$	nos.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③		= 4 × 5	=6÷5
1 SZ-01 Gurage	SW-01 Sodo	S-01	Buei (BH)	6,96	1 8,18	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%
2 SZ-01 Gurage	SW-01 Sodo	S-02	Kela (SP&BH)	3,51	9 4,13	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 SZ-01 Gurage	SW-01 Sodo	S-03	Tiya (BH)	1,93	7 2,27	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 SZ-01 Gurage	SW-01 Sodo	S-04	Suten (BH)	1,29	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 SZ-01 Gurage	SW-03 Mareqo	S-06	Koshe (BH)	6,85	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 SZ-02 Hadiya	SW-04 Lemmo	S-07	Lisana(BH)	1,71	1 2,01	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 SZ-02 Hadiya	SW-05 Shashago	S-09	Dosha (BH)	1,88	1 2,21	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 SZ-02 Hadiya	SW-07 Analemmo	S-11	Fonko (BH)	2,38	2,79	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%
9 SZ-02 Hadiya	SW-08 Mirab Badaw	ocho S-12	Wada (SP&BH)	2,11	3 2,48	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%
10 SZ-03 Kembata Timbar	o SW-09 Anigacha	S-13	Anigacha (BH)	681	1 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%
11 SZ-03 Kembata Timbaro	SW-10 Kedia Game	a S-14	Adilo (BH)	4,65	5,48	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%
12 SZ-03 Kembata Timbaro	SW-11 Dayiboya	S-15	Daniboya (BH)	8,11	1 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%
13 SZ-04 Sidama	SW-12 Shebedio	S-16	Leku (BH)	11,81	13,89	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%
14 SZ-04 Sidama	SW-13 Dara	S-17	Kebado (BH)	8,36	9,83	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%
15 SZ-04 Sidama	SW-13 Dara	S-18	Teferi Kela (BH)	4,17	B 4,91	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 SZ-04 Sidama	SW-14 Gorche	S-19	Goreche (SP)	298	3,51	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 SZ-04 Sidama	SW-15 Malga	S-20	Manicho (BH)	4,01	7 4,72	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%
18 SZ-04 Sidama	SW-16 Wensho	S-21	Bokasa (Bokaso) (BH)	2,03	9 2,39	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%
19 SZ-04 Sidama	SW-41 Alta Chuko	S-22	Chuko (BH)	8,88	10,45	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%
20 SZ-04 Sidama	SW-18 Wendo Gene	t S-23	Chuko	14,62	17,20	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%
21 SZ-04 Sidama	SW-18 Wendo Gene	t S-24	Ela (Kela) (SP)	5,25	6,18	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%
22 SZ-05 Gedeo	SW-20 Kochore	S-27	Fiseha Genet (BH)	4,18	9 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%
23 SZ-05 Gedeo	SW-21 Gedeb	S-28	Gedeb (BH)	10,02	1 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%
24 SZ-06 Wolayita	SW-23 Humbo	S-30	Tabela (Humbo)(SP)	6,24	7,34	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%
25 SZ-06 Wolayita	SW-24 Deguna Fanig	S-32	Dimtu (SP)	1,70	2,00	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%
26 SZ-07 Gamo Gofa	SW-26 Mirab Abaya	S-34	Birbir (BH)	5,83	1 6,85	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%
27 SZ-07 Gamo Gofa	SW-27 Chencha	S-35	Chenicha (SP&BH)	10,22	12,02	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%
28 SZ-07 Gamo Gofa	SW-27 Chencha	S-36	Ezo (BH)	1,82	2,14	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%
29 SZ-07 Gamo Gofa	SW-27 Chencha	S-37	Dorze (BH&SP)	1,25	6 1,47	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%
30 SZ-07 Gamo Gofa	SW-28 Amaro Speci	al S-38	Kele (SP)	8,63	2 10,15	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%
31 SZ-07 Gamo Gofa	SW-29 Burji Special	S-39	Soyama (SP)	6,26	7,37	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 SZ-07 Gamo Gofa	SW-30 Konso Specia	S-41	Segen (BH)	3,62	6 4,26	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%
33 SZ-07 Gamo Gofa	SW-31 Darashe Spe	ial S-42	Gidole (SP)	13,170	15,49	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 SZ-08 Silite	SW-32 Siliti	S-43	Kibat (BH)	5,67	6,67	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)	1,02	1,20	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%

Data	a 7.4	App	oroxima	ate	Scale	of th	ie Wa	ter	Supply	Faci	lities	and t	he P	roject	Cost	for	82 Sn	nall To	owns	(2/3)	
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36 SZ	-08 Silite	SW-3	3 Lanifaro (Lanfu	o) 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%
37 SZ	-08 Silite	SW-3	3 Lanifaro (Lanfu	o) S-47	Mito (BH)	3,277	3,855	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%
38 SZ	-08 Silite	SW-3	4 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%
39 SZ	-08 Silite	SW-3	5 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%
40 SZ	-08 Silite	SW-3	5 Sankura	S-51	Mazoria (BH)	2,730	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	2,761	86%
41 SZ	-08 Silite	SW-3	6 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%
42 SZ	-01 Gurage	SW-0	2 Meskan	S-53	Hamus-Gabeya(Bamo)(B	H) 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%
43 SZ	-02 Hadiya	SW-0	5 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%
44 SZ	-02 Hadiya	SW-0	6 Misrak Badav	ocho S-55	Weyira Mazoria (BH)	8,346	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	9,817	100%
45 SZ	-05 Gedeo	SW-2	0 Kochore	S-56	Biloya (SP)	4,484	5,274	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%
46 SZ	-05 Gedeo	SW-2	1 Gedeb	S-57	Chorso-Mazoria (BH&SP)	8500	9,998	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%
47 SZ	-06 Wolayita	SW-3	7 Damot Pula	a S-58	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	\$648,112	\$842,545	13%	87%	6,287	5,470	87%
48 SZ	-06 Wolayita	SW-3	8 Sodo Zuria	S-59	Dalbo Wegene Atowa (SP)	4,772	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	5,276	94%
49 SZ	-07 Gamo Go	fa SW-3	9 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	76%
50 SZ	-07 Gamo Go	fa SW-3	Konso Spec	al 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%
51 SZ	-08 Silite	SW-3	2 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	80%
52 SZ	-08 Silite	SW-4	0 Alicho wurire	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	73%
		SN	INPRS Ave	rage		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	-	-
		8	NNPRS To	tal		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 32	1,300	\$4,713,163	923	\$730,570	\$50,008,919	\$65,011,594	-	-	-	-	-

* Note ··· (© Negative 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".

Data 7.4 Approximate Scale of the Water Supply Facilities and the Project Cost for 82 Small Towns (3/3)

		Ora	omia region (30	towns \																				ilali TOW	/ns (3/3)	Water coverage	Out of water	D 11:	Beneficiary population	Beneficiary ratio
		010	Jilla region (30	towns)	Town population		Tube well		oump		enerator		ator House	Convayance p							ion pipe line		c faucets	Implementation cost	Project cost (Incl. consulting service)	(2010)	coverage 100 – Water	Population	(2015)	(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			20lpcd	coverage	2015		
No.	Z	one	Woreda	Small Town	2010 2015		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	Yer	n75,84/\$	Y	Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	1	2	3	4	5	6	7
					Persons	nos.	. \$	nos.	\$	nos.	\$	nos.	\$	m	\$	nos.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③		= 4 × 5	=6÷5
1 0	Z-01 Ars	si	OW-01 Hitosa	O-01 Iteya (SP)	14,239 16,74	9	1 \$18,987	1	\$6,593	1	\$26,039	1	\$14,504	1,650	\$282,121	1	\$25,844	5,500	\$354,991	16,500	\$242,039	48	\$37,859	¥1,513,467	¥1,967,507	137%	-37%	16,749	-6,188	-37%
2 0	Z-01 Ars	i i	OW-02 Ziway Dugda	O-02 Ogolcha (Agolcho)(BH)	4,759 5,59	18	1 \$25,316	1	\$8,131	1	\$26,039	1	\$14,504	1,050	\$179,531	1	\$9,230	3,500	\$225,903	10,500	\$154,025	16	\$12,654	¥983,002	¥1,277,902	129%	-29%	5,598	-1,623	-29%
3 0	Z-01 Ars	si	OW-03 Tiyo	O-03 Gonde (SP)	4,350 5,11	7	1 \$18,987	1	\$11,428	1	\$44,188	1	\$14,504	1,200	\$205,179	1	\$9,230	4,000	\$258,175	12,000	\$176,028	15	\$11,566	¥1,123,929	¥1,461,107	401%	-301%	5,117	-15,402	-301%
4 O	Z-01 Ars	si	OW-04 Digaluna Tijo	O-05 Kidame Digelu (SP)	1,780 2,09	14	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 O	Z-01 Ars	si	OW-04 Digaluna Tijo	O-06 Sagure (SP)	10,926 12,85	12	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 O	Z-01 Ars	si	OW-05 Munesa	O-07 Kersa (SP)	9,916 11,66	i4	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 0	Z-04 We	est Arsi	OW-20 Limana Bilbilo	O-09 Meraro (SP)	4,725 5,556	18	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 O	Z-04 We	est Arsi	OW-08 Kofele	O-10 Kofele (BH)	14,401 16,93	19	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	62%
9 0	Z-01 Ars	si	OW-03 Tiyo	O-11 Kulumsa (nil)	3,472 4,08	14	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 O	Z-01 Ars	si	OW-01 Hitosa	O-12 Boru Jawi (SP)	4,446 5,23	10	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 0	Z-03 Eas	st Shewa	OW-16 Adami Tulu & Jido Kombolcha	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 O	Z-03 Eas	st Shewa	OW-16 Adami Tulu & Jido Kombolcha	O-22 Adami Tulu (BH)	8,166 9,60	15	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 O	Z-03 Eas	st Shewa	OW-16 Adami Tulu & Jido Kombolcha	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 O	Z-01 Ars	Si .	OW-03 Tiyo	O-29 Katar Genet (nil.)	3,953 4,65	60	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 O	Z-01 Ars	și	OW-20 Limana Bilbilo	O-30 Lemo Sirba (SP)	5,590 6,579	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 O	Z-02 Boi	rena	OW-09 Teltele	O-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	71%
17 O	Z-02 Boi	rena	OW-21 Bure Hara	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 O	Z-02 Boi	rena	OW-10 Yabelo	O-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 O	Z-04 We	st Arsi	OW-22 Wondo	O-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%
20 O	Z-03 Eas	st Shewa	OW-19 Adama	O-35 Awash Mercasa (BH)	10,200 11,99	18	2 \$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,800	\$307,768	1	\$18,460	3,000	\$193,631	9,000	\$132,021	34	\$27,120	¥1,221,488	¥1,587,934	57%	43%	11,998	5,199	43%
21 O	Z-03 Eas	st Shewa	OW-23 Bosat	O-36 Walanciti (BH)	11,260 13,24	5	5 \$94,937	5	\$40,656	5	\$130,197	5	\$72,521	9,750 \$	1,667,078	2	\$60,918	6,500	\$419,535	19,500	\$286,046	38	\$29,939	¥4,202,738	¥5,463,560	338%	-238%	13,245	-31,523	-238%
22 O	Z-03 Eas	st Shewa	OW-23 Bosat	O-37 Doni (nil.)	4,164 4,89	18	1 \$18,987	1	\$8,131	1	\$26,039	1	\$14,504	600	\$102,589	1	\$13,845	2,000	\$129,088	6,000	\$88,014	14	\$11,071	¥618,404	¥803,926	0%	100%	4,898	4,898	100%
23 O	Z-03 Eas	st Shewa	OW-23 Bosat	O-38 Befa (Bofa) (BH)	7,040 8,28	:1	2 \$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,620	\$276,991	1	\$19,383	2,700	\$174,268	8,100	\$118,819	24	\$18,718	¥1,115,256	¥1,449,833	183%	-83%	8,281	-6,873	-83%
24 O	Z-04 We	est Arsi	OW-22 Wondo	O-39 Intaye (nil.)	8,500 9,99	18	2 \$37,975	2	\$16,262	2	\$52,079	2	\$29,008	1,680	\$287,250	1	\$16,614	2,800	\$180,723	8,400	\$123,220	29	\$22,599	¥1,148,595	¥1,493,174	0%	100%	9,998	9,998	100%
25 O	Z-04 We	est Arsi	OW-08 Kofele	O-40 Kabate (BH)	4,146 4,87	7	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	4,524	93%
26 O	Z-04 We	est Arsi	OW-14 Sheshemane	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 O	Z-04 We	est Arsi	OW-14 Sheshemane	O-42 Hursa (BH&SP)	5,700 6,70	15	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 O	Z-02 Boi	rena	OW-12 Mijo (Miyo)	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 O	Z-02 Boi	rena	OW-13 Dugda dawa	O-44 Fincadaa (Fincawaa) (BH)	7,200 8,46	i9	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 O	Z-03 Eas	st Shewa	OW-24 Liben	O-45 Adulala (nil.)	3,601 4,23	16	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				4,236	100%
			Oromia Region Av		6,452 7,59		2 \$41,350	2	\$23,205	2		2	\$30,327		\$321,991	1	\$18,124	2,797	\$182,483		\$124,420							7,590	-	-
			Oromia Region T		193,573 227,69		52 \$1,240,506	62	\$639,077		\$2,133,489	62				33		83,900						\$37,757,001			_		-	-
			Rogion i		. 50,0.5	- 0	Ç.,240,000	, , , , , , , , , , , , , , , , , , ,	4000,011	VZ	ψ <u>=</u> ,.σσ, τ σσ	32	, , , , , , , , , , , , , , , , , , ,	35,300 \$1	-,0.0,400	30	Ç001,403	55,500	40,710,220	20.,700	#0,00 <u>2</u> ,101	001	40.4,001	\$07,707,001						

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

Average of 2 regions (SNNPRS+Oromia=82 towns)	5,86	6,90	3 2	\$41,878	2 \$23,	80	2 \$78,107	2	\$30,226	1,616	\$269,355	1 \$15,532	2,428	\$157,709	7,284	\$107,529	20	\$15,453	\$1,110,138	\$1,443,180	98%	-	6,903	-	-	
Total of 2 regions (SNNPRS+Oromia=82 towns)	468,34	9 550,89	9 170	\$3,445,570	170 \$1,843,	03 1	70 \$6,198,544	170	\$2,465,717	124,860	\$21,348,854	89 \$1,230,353	191,000	\$12,327,861	573,000	\$8,405,360	1,574	\$1,245,251	\$87,765,919	\$114,095,695	-	=	-	-	-	

Data 7.5 Approximate Scale of Water Supply Facilities and Project Cost for Priority Small Towns

			ligh priority		wns) verage and Beneficial		population	Tu	ube well	F	oump	G	enerator	Genera	ator House	Convayar	ce pipe line Wat	ter Re	eservoir tank	Transmiss	ion pipe line	Distribut	tion pipe line	Public	c faucets	Implementation	Project cost (Incl.	Water coverag (2010)	coverage	Population	Beneficiary population (2015)	Beneficiary ratio (2015)
					and Accesibilityetc.)	.	Q'ty	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost Q	l'ty	Cost	Q'ty	Cost	Q'ty	ill	Q'ty	Cost	cost	service)	20lpcd	100 — Water coverage	2015		
No	. Zone		Woreda		Small Town	2010	2015		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$,	Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	1	2	3	4	5	6	7
						Pe	ersons	nos.	\$	nos.	\$	nos.	\$	nos.	\$	m	\$ no	os.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③		=4×5	=6÷5
1	SZ-02 Hadiya	SW-0	Shashago	S-09	Dosha (BH)	1,88	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%	6 2,213	2,001	90%
2	SZ-03 Kembata Timbal	ro SW-10	Kedia Gamela	S-14	Adilo (BH)	4,65	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%	6 5,480	4,603	84%
3	SZ-03 Kembata Timbai	ro SW-1	Dayiboya	S-15	Daniboya (BH)	8,11	1 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	2% 58%	6 9,541	5,534	1 58%
4	SZ-04 Sidama	SW-13	Dara	S-17	Kebado (BH)	8,36	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	9% 80%	6 9,839	7,871	80%
5	SZ-06 Wolayita	SW-23	Humbo	S-30	Tabela (Humbo)(SP)	6,24	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%	6 7,347	4,702	64%
6	SZ-08 Silite	SW-33	B Lanifaro (Lanfuro)	S-46	Tora (BH)	9,16	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%	6 10,778	7,545	70%
7	SZ-08 Silite	SW-3	Sankura	S-51	Mazoria (BH)	2,73	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	1% 86%	6 3,211	2,761	86%
8	SZ-01 Gurage	SW-02	2 Meskan	S-53	Hamus-Gabeya(Bamo)(BH	4,15	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	2% 78%	6 4,884	3,825	78%
9	SZ-02 Hadiya	SW-08	Shashago	S-54	Hirkofofo (BH)	2,59	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	2% 88%	3,047	2,694	88%
10	SZ-02 Hadiya	SW-06	Misrak Badawocho	S-55	Weyira Mazoria (BH)	8,34	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		100%	6 9,817	9,817	7 100%
11	SZ-06 Wolayita	SW-38	Sodo Zuria	S-59	Dalbo Wegene Atowa (SP)	4,77	72 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	-	94%	5,613	5,276	94%
	·	SN	NPRS Average)	·	5,54	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	9% 81%	6,525	5,148	81%
		s	NNPRS Total			61,01	5 71,770	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	56,630	-

# O-1-	Oromia region (High priority 9 towns) Selected by Water potential, water quality, Water coverage and Beneficial ffect (except population, Existing rights & Disputes and Accesibilityetc			Town	population	lation Tube wel		ell Pump		Generator		Generator House		Convayance pipe line Water Reservoir tan			eservoir tank	Transmiss	ion pipe line	Distribution pipe line Public faucets			c faucets	Implementation	Project cost (Incl.	Water coverage (2010)	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		'ty	Cost	Q'ty Cost		Q'ty	計	Q'ty	Cost	cost	service)	20lpcd	100 — Water coverage	2015				
No.	Zone		Woreda		Small Town	2010	2015		Yen75,84/\$,	Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$,	Yen75,84/\$		Yen75,84/\$		Yen75,84/\$		Yen75,84/\$	1	2	3	4	5	6	7
140.	20110		worda		Omaii Town	Pe	ersons	nos.	\$	nos.	\$	nos.	\$	nos.	\$	m	\$ no	os.	\$	m	\$	m	\$	nos.	\$	US\$	US\$		=100%-③		= 4 × 5	=6÷5
1 OZ-	04 West Arsi	OW-0	8 Kofele	O-10	Kofele (BH)	14,40	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%
2 OZ-	1 Arsi	OW-0	3 Tiyo	O-11	Kulumsa (nil)	3,47	72 4,08	4 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%
3 OZ-	1 Arsi	OW-0	1 Hitosa	O-12	Boru Jawi (SP)	4,44	5,23	0 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%
4 OZ-	1 Arsi	OW-0	3 Tiyo	O-29	Katar Genet (nil.)	3,95	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%
5 OZ-	1 Arsi	OW-2	0 Limana Bilbilo	O-30	Lemo Sirba (SP)	5,59	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%
6 OZ-)4 West Arsi	OW-2	2 Wondo	O-34	Bura (Busa) (BH)	5,11	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%
7 OZ-)4 West Arsi	OW-0	8 Kofele	O-40	Kabate (BH)	4,14	4,87	7 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	4,524	93%
8 OZ-)4 West Arsi	OW-1	4 Sheshemane	0-41	Awasho-Dhanku (BH)	7,04	10 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%
9 OZ-	04 West Arsi	OW-1	4 Sheshemane	0-42	Hursa (BH&SP)	5,70	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%
		Orom	ia Region Avera	ge		5,98	7,03	9 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	15	% 85%	6 7,039	5,716	85%
		Oro	mia Region Tota	ı		53,86	63,35	4 23	\$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	51,448	-

Average of 2 regions (SNNPRS+Oromia)	5,766	6,782	2	\$44,879	2 \$2	23,291	2 \$83,035	2	\$32,378	1,622	\$277,302	1 \$19,2	8 2,155	\$139,063	6,464	\$94,815	19 \$1	5,330 \$1,093	997 \$1,422,196	6	17%	83%	6,782	5,432	83%
Total of 2 regions (SNNPRS+Oromia)	114,875	135,124	44	\$886,076	44 \$46	61,882	\$1,643,003	44	\$638,186	31,320	\$5,355,167	23 \$383,04	3 42,200	\$2,723,747	126,600	\$1,857,100	386 \$30	\$21,380	457 \$27,794,595	5	-	-	135,124	108,079	-