SINE No.	DENTIFICATION PANEL  Item	i			Description			
110.	Code No.	S-01	1			·		
	Site Name	Bani Waleed	d - Al Asboor					4.00
	Sub-District (Uzlat)	:						
	District	Al Haymah /	Al Kharijiyah					
	Governorate	Sana'a	.,					
	Coordinates	Latitude	Longitude	ļ.				
				<u> </u>			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Coordinates (Measured Location)	100						
	Annual precipitation (rainfall)	i	) mm				· · · · · · · · · · · · · · · · · · ·	·
	Population (2006) Population Forecast (2016)	1,923			<u>:                                    </u>	v	· · ·	<u> </u>
	No. of Village (Qariah) in Total	2,360	1	<u> </u>				
	No. of Village (Qariah) to be served		<u> </u>	<del>-</del>			•	***
	140. Of Village (Qariall) to be served	Na Na	ame	To Be Serve	Population	Household	Coordinat	te (Lat / Lon)
	- - -	Al Sharga	arric	TO DE GEIVE	1 opulation	HOUSEHOIG	Coordina	i i
		Al Karf		:		·		
	<u> </u>  -	Dhahrat Al U	Jla	;				<del> </del>
	<u> </u> 	Al Lakma		+		i		1
	_i  -	Qamran					i I	
	+	Dhahrat Al V	Nali	<del> </del>		····		
		Hajjar		1				<del> </del>
	.i : :	Al Qamh				<u> </u>	: 	-
•	!	AL Zubair &	AL Matariya					<del></del>
	i	AL Muhami			•			
	<u>-</u> 1 :	Bait Saad					i	
		Al Majel & A	l Sharaf				:	
		Al Nuzoh					i	1
	Village (Qariah) in the Community	Kail 1				:- ! !		
		Kail 2						
		Al Kiyab & A				!	i	
	: 	Al Dhila'a &	Al Wathan	-1				
		Al Awdan				•	! 	
	· · · · · · · · · · · · · · · · · · ·	Al Dhahrah		i			! !	
	: ! !	Al Hais		<u> </u>		I	ļ	
		Al Muthab	·	ļ				<u> </u>
	! 	Al Dhiq & Al	Lajeej	1		:	<del> </del>	<u> </u>
	1 ;	Al Jabal	Chalah Oasim	i .			: 	
			Sha'ab Qasim				<u> </u>	1 1
		Al Mustawsi Dar Al Qura		<u> </u>				<u> </u>
		Madrasat Al						-
		Madrasat Al						
FXIST	ING WATER SUPPLY SCHEME PANEL	ililiaulasat Al	Zariia a				I	1
No.	i Item	ì			Description			
	<u></u>	No existing					1 1 1 1 1 1 1	- 1 1 X
	Components of Existing Water Supply Scheme		ponent	Specif	ication	Condition	Year	Fund
		Pump for De						1
	<del>'</del>	·	or Deep Well				! <u></u> .	
			e for Deep We	3		· · · · · · · · · · · · · · · · · ·		İ
		Pump for Bo	oster	i		<del>-</del>	· · · · · ·   	
		Eng./Gen. fo	r Booster				į	
	· · · · · · · · · · · · · · · · · · ·	Pump House	e for Booster					
		Booster Tan		1				
		Distribution			·			<u> </u>
		Pumping Ma		İ		<u></u>	!	
	;	Distribution I		:			!	:
	! 	Public Tapst						
		House Conn						
				motorized pur				
		wells becom 12,500/m3)	e ary in ary se	eason, so buy	irom another	village at YR	∠,500/200 lit	(YK
		, <u>, , , , , , , , , , , , , , , , , , </u>						
	!	:						

Vo.	Item			Description	
	[Borehole Code]	S-01/2 AA			
	Grid (UTM)	North	East		
		1659630	379635		en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
	Grid (Lat/Lon)	Lat. N	Lon. E		
		15°00' 33.1"	43"52' 50.1'	<u> 1</u>	
	Present Condition (Pump Type)	Capped			
	Elevation (m)	1664	m		
	Aquifer/Geological Description				
	Year of Construction	2005	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	Fund	GARWSP			·
	Depth (m)	348		<u> </u>	
	Casing Diameter (inch)	8	inch	L	· · · · · · · · · · · · · · · · · · ·
	Screen				
	Static Water Level (G.Lm)	47			
	Dynamic Water Level (G.Lm)	120			
	Drowdown (m)	. 73			
	Discharge (g/min)		g/min	6.2 L/sec	
	Specific Capacity		L/s/m		<u> </u>
	EC (mS/m)		mS/m		
	pH	7.04			
	Temperature ('C)	30,7			
	Remarks	<u> </u>			
	[Borehole Code]	S-01/1 BW			
	Grid (UTM)	North	East	T	
	· Grid (O (191)	1659638	380252		
	Grid (Lat/Lon)	Lat. N	Lon. E		
	Gild (Laveon)	15°00' 32.8"	43°52' 49.4"		
	Present Condition (Pump Type)	Capped			
	Elevation (m)	1654	m		
	Aquifer/Geological Description				
	Year of Construction	2005		w	and the second s
	Fund	GARWSP	l <u>-</u>	· · · · · · · · · · · · · · · · · · ·	
	Depth (m)	300	m		
	Casing Diameter (inch)		inch		
	Screen				
	Static Water Level (G.Lm)	85	m		
	Dynamic Water Level (G.Lm)	210			
	Drowdown (m)	125			
	Discharge (g/min)		g/min	3.2 L/sec	5 (1.5 kg) 1 (2.5 kg)
	Specific Capacity	0.025		3.2 Daec	
	EC (mS/m)	113.9			
	pH	6.70	mom	<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Temperature ('C)	29.4			
<del> i</del>	Remarks		·		
ATTE	R SUPPLY PLANNING PANEL	-			
<b>-11</b>	Item			Description	
	【Design Parameter】	<del></del>		Description	
		,			
	No. of Villages in Total	0		<u>-</u>	
	No. of Villages to be Covered	0			
	Current Population (2006)	1,923 2,360			
		12 3DH		İ	
	Design Population (2016)				
	Design Water Supply Rate	40	L/c/d	260 m³/day	
	Design Water Supply Rate Type of Work Required	40 New construc	tion		
	Design Water Supply Rate	40 New construc Comp	onent	To be Constructed by	Notes
	Design Water Supply Rate Type of Work Required	New construction Comp	ction onent ep Well	To be Constructed by Donor	New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for December 1,500 For D	otion onent ep Well Deep Well	To be Constructed by Donor Donor	New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for Decent Eng./Gen. for Pump House	ction onent ep Well Deep Well for Deep We	To be Constructed by Donor Donor Donor/Village	New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for Decent Comp Pump for Decent Comp Pump House Pump for Boo	ction onent ep Well Deep Well for Deep We oster	To be Constructed by Donor Donor Donor/Village Donor	New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	How construction Comp Pump for Decent Eng./Gen. for Pump House Pump for Book Eng./Gen. for Eng./Gen. for Eng./Gen. for Eng./Gen.	onent onent op Well Deep Well for Deep We oster Booster	To be Constructed by Donor Donor Donor/Village	New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	How construction Comp Pump for Decent Eng./Gen. for Pump House Pump for Book Eng./Gen. for Eng./Gen. for Eng./Gen. for Eng./Gen.	onent onent op Well Deep Well for Deep We oster Booster	To be Constructed by Donor Donor Donor/Village Donor	New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for Decent Comp Pump for Decent Comp Pump House Pump for Boo	ction onent op Well Deep Well for Deep We oster Booster for Booster	To be Constructed by Donor Donor/Village Donor Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for Decent Eng./Gen. for Pump House Pump for Boot Eng./Gen. for Pump House Booster Tank	ction onent ep Well Deep Well for Deep Well ster Booster for Booster	To be Constructed by Donor Donor Donor/Village Donor Donor/Village Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for Decent Eng./Gen. for Pump House Pump for Boot Eng./Gen. for Pump House Booster Tank Distribution T	ction onent ep Well Deep Well for Deep We ester Booster for Booster ank	To be Constructed by Donor Donor/ Donor/Village Donor Donor/Village Donor Donor/Onor/Donor/Onor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction Comp Pump for Decent Eng./Gen. for Pump House Pump for Boot Eng./Gen. for Pump House Booster Tank Distribution T Pumping Mai	ction onent ep Well Deep Well for Deep We ester Booster for Booster ank	To be Constructed by Donor Donor/ Donor/Village Donor Donor/Village Donor Donor/Donor/Donor/Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction of the co	ction onent ep Well Deep Well for Deep We ester Booster for Booster ank n	To be Constructed by Donor Donor/Ollage Donor Donor/Village Donor Donor/Village Donor Donor Donor Donor Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction of the co	onent onent op Well Deep Well for Deep Well ster Booster for Booster ank n Jain	To be Constructed by Donor Donor Donor/Village Donor Donor/Village Donor Donor Donor Donor Donor Donor Donor Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required Required Facilities	New construction  Comp Pump for Decense Fig./Gen. for Pump House Pump for Booken For Pump House Booster Tank Distribution T Pumping Mail Distribution M Public Tapsta House Conne	otion onent op Well Deep Well for Deep Well ster Booster for Booster ank n lain and ections	To be Constructed by Donor Donor/Ollage Donor Donor/Village Donor Donor/Village Donor Donor Donor Donor Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2
	Design Water Supply Rate Type of Work Required	New construction of the co	otion onent op Well Deep Well for Deep Well ster Booster for Booster ank n lain and ections	To be Constructed by Donor Donor Donor/Village Donor Donor/Village Donor Donor Donor Donor Donor Donor Donor Donor	New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2 New x 2

	DENTIFICATION PANEL	1		-	Descriptio	n		
	ltem	  S-02			Description	1		
	Code No.	Jarban				<del></del>		
	Site Name	Jarpan			i			
	Sub-District (Uzlat)	Hondon		<del></del>		· · · · · · · · · · · · · · · · · · ·		- 1 A
	District	Hamdan				<u> </u>		
	Governorate	Sana'a	:					
	Coordinates	Latitude	Longitude	1 :		<del></del>		<del></del>
				·			<u>- 11-11</u>	
	Coordinates (Measured Location)	240	·					
	Annual precipitation (rainfall)		mm			<del></del>	<u> </u>	·
	Population (2006)	1,611		<u> </u>			<u></u>	
	Population Forecast (2016)	1,977						
	No. of Village (Qariah) in Total	15						· · · · · · · · · · · · · · · · · · ·
;	No. of Village (Qariah) to be served	15			1_4:	: 11	Coordinate	- /I at / I a
:		A Committee of the Comm	ame	Popu	lation	Household	Coordinate	e (Lat / Loi
- :		Al Matrah			85 70			
:		Al Hisn			32			:
!		Al Balad				19		<u>;</u>
i		Al Aridhah		-	142	25		1
		Al Saradeh		<del> </del>	150	20		!
		Om Jafar			74	9		<u> </u>
:	Village (Qariah) in the Community	Al Himrary		<u> </u>	358	56		-
	Things (during) if the community	Ra'as Al Ma			71	10		<u> </u>
		Ra'as Al Aqa		L	100	13		: !
_ :		Qatta'a Al N			92	<u> </u>		
		Wadi Jasas		<u> </u>	83			
		Al Enab			26			
$\exists$		Al Sadr			251	30		1
i		Al Madhaf			52			
		Sha'ab Al Si	итог	1	25	5		!
Ш	NG WATER SUPPLY SCHEME PANEL			•				
	Item				Descriptio	n		
-:	Functioning	Non-function	nal				3 1 14 1	
	Components of Existing Water Supply Scheme	Com	ponent	Specif	ication	Condition	Year	Func
- ;		Pump for De	eep Well	Vertical		Stopped in 1986	1981	MAI
		Engine for D		1		Stopped in 1986	1981	MAI
- 1			e for Deep W	₽RC		Cannot use	1981	MAI
j:		Pump for Bo		Horizontal		Cannot use	1981	MAI
		Engine for B		;		Stopped in 1986	1981	
- 1			e for Booster	RC	<u> </u>	Useless	1981	
+	<del></del>	Booster Tan		25 m3	RC	Cannot use	1981	
i		Distribution		100(?) m3	RC	Cannot use	1981	MAI
$\dashv$		Pumping Ma		SGP	1	Cannot use	1981	
T		Distribution		SGP	!	Cannot use	1981	
	· · · · · · · · · · · · · · · · · · ·	Public Tapst				ournet dec		
					<del> </del>	ļ !		<del> </del>
- :			nection	1				
1		House Conr		! structed by M	ΔI (Ministry c	f Agriculture and	Irrigation) F	Highlands
		House Conr Water suppl	ly system con			of Agriculture and		
	Observations	House Conr Water suppl Authority, bu	ly system con: ut borehole dr			of Agriculture and private		
1		House Conr Water suppl	ly system con: ut borehole dr					
1	R SOURCE PANEL	House Conr Water suppl Authority, bu	ly system con: ut borehole dr		S. Now get w	ater from private		
	R SOURCE PANEL	House Conr Water suppl Authority, bu tanker or do	ly system con: ut borehole dr			ater from private		
<u>(3:</u>	R SOURCE PANEL	House Conr Water suppl Authority, bu tanker or do	ly system con ut borehole dr onkey.		S. Now get w	ater from private		
<b>(3</b> ;	R SOURCE PANEL  Item  [Borehole Code]	House Conr Water suppl Authority, but tanker or do S-02 North	ly system con ut borehole dr inkey.		S. Now get w	ater from private		
7 <b>3</b> 5	R SOURCE PANEL	House Conr Water suppl Authority, bu tanker or do S-02 North 1722732	ly system conut borehole drunkey.  East 398177		S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	House Conr Water suppl Authority, bu tanker or do S-02 North 1722732 Lat. N	y system conut borehole drankey.  East 398177 Lon. E	ed up in 1986	S. Now get w	ater from private		
	[Borehole Code] Grid (UTM) Grid (Lat/Lon)	House Conr Water suppl Authority, bu tanker or do S-02 North 1722732 Lat. N 15°34' 49.2'	ly system conut borehole drunkey.  East 398177	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	House Conr Water suppl Authority, bu tanker or do S-02 North 1722732 Lat. N 15°34' 49.2' Capped	y system con- ut borehole dr onkey.  East 398177  Lon. E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	House Conr Water suppl Authority, bu tanker or do S-02 North 1722732 Lat. N 15°34' 49.2'	y system con- ut borehole dr onkey.  East 398177  Lon. E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
rer -	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	S-02 North 1722732 Lat. N 15°34' 49.2' Capped	East 398177 Lon E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	S-02 North 1722732 Lat. N 15*34*49.2* Capped 2642	East 398177 Lon E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	S-02 North 1722732 Lat. N 15°34' 49.2' Capped	East 398177 Lon E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2005 GARWSP 450	y system conut borehole drankey.  East 398177 Lon. E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2005 GARWSP 450	East 398177 Lon. E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
TER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2005 GARWSP 450	y system conut borehole drankey.  East 398177 Lon. E 44°03' 01.1'	ed up in 1986	S. Now get w	ater from private		
rer 	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2005 GARWSP 450	East 398177 Lon. E 44°03' 01.1' 2 m	ed up in 1986	S. Now get w	ater from private		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	S-02 North 1722732 Lat. N 15*34*49.2* Capped 2642 2005 GARWSP 450	East 398177 Lon. E 44°03' 01.1' 2 m 5 m 6 inch	ed up in 1986	S. Now get w	ater from private		
IER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	S-02 North 1722732 Lat. N 15*34*49.2* Capped 2642 2005 GARWSP 450 10	East 398177 Lon. E 44°03' 01.1' 2 m 5 m 6 inch	ed up in 1986	S. Now get w	ater from private		
IER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	House Conr Water suppl Authority, but tanker or do S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2642 2005 GARWSP 450 10 345.3 345.4	East 398177 Lon. E 44°03' 01.1' 2 m	ed up in 1986	Descriptio	ater from private		
IER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	House Conr Water suppl Authority, but tanker or do S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2642 2005 GARWSP 450 10 345.3 345.4 0.1	East 398177 Lon. E 44°03' 01.1' 2 m 5 0 m 0 inch 3 m 4 m 1 m 2 g/min	ed up in 1986	S. Now get w	ater from private		
TER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	House Conr Water suppl Authority, butanker or do S-02 North 1722732 Lat. N 15°34' 49.2' Capped 2642 2005 GARWSP 450 345.3 345.4 0.1	East 398177 Lon. E 44°03' 01.1' 2 m 5 m 6 inch 8 m 1 m 2 g/min 9 L/s/m	ed up in 1986	Descriptio	ater from private		
TER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	S-02 North 1722732 Lat. N 15*34' 49.2' Capped 2642  2005 GARWSP 450 345.3 345.4 0.1 32 20.19	East 398177 Lon. E 44°03' 01.1' 2 m 5 0 m 0 inch 1 m 2 g/min 2 l/s/m 3 mS/m	ed up in 1986	Descriptio	ater from private		
TER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	S-02 North 1722732 Lat. N 15*34' 49.2' Capped 2642  2005 GARWSP 450 345.3 345.4 0.1 32 20.19 28.8	East 398177 Lon. E 44°03' 01.1' 2 m  inch 3 m 4 m 6 m 2 g/min 9 L/s/m 8 mS/m 8	ed up in 1986	Descriptio	ater from private		
TEL	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	S-02 North 1722732 Lat. N 15*34' 49.2' Capped 2642  2005 GARWSP 450 345.3 345.4 0.1 32 20.19	East 398177 Lon. E 44°03' 01.1' 2 m  inch 3 m 4 m 6 m 2 g/min 9 L/s/m 8 mS/m 8	ed up in 1986	Descriptio	ater from private		

VATER SUPPLY PLANNING PANEL		Descript	ion		
ltem		Descript	No de de de de de de de de de de de de de		
[Design Parameter]	15				
No. of Villages in Total  No. of Villages to be Covered	15		- TANGET ( )		
Current Population (2006)	1,611				
Design Population (2016)	1,977				
Design Water Supply Rate	40 L/c/d	174 m³/day	* *		
Type of Work Required	New construction				
Required Facilities	Component	To be Constructed by			
	Pump for Deep Well		New		
· · · · · · · · · · · · · · · · · · ·	Eng./Gen. for Deep		New New		
	Pump House for Dec Pump for Booster	Donor Donor	New		
	Eng./Gen. for Booste		New		
	Pump House for Boo		New		
	Booster Tank	Donor	New		
	Distribution Tank No	.1 Donor	New		
4	Distribution Tank No	.2 Village	New		
	Pumping Main	Donor	New		
	Distribution Main	Donor	New		
<del></del>	Public Tapstand	Donor	New (for mosque, school and clinic only		
A coopeikilite	House Connections Good, along paved r	Village	New		
	Problem at check po				
Observation			<del></del>		
PERATION AND MAINTENANCE PANEL					
ltem	:	Descript			
No. of Village Head (Sheikh)	3 Those	three are most likely Aqui. Ur	nique setting in one village.		
No. of Tribe	1		hill. Number of households, when the		
Observation in Current Supply Scheme	because of overload The booster pump b has been operated t soon after the boost possibly because of	as broken in 1998 or 2000 (d beyond capacity. roken in 1998/2000 has not b o fill booster pump located jus er pump was broken down, th overloaded operation in the c	een replaced, and only borehole pump unit to beside of the pump house. However, e borehole pump unit was also worn out ondition that the water level became		
Mode of Ownership	No legal arrangement GAREW handed over		scheme was prepared. tten agreement and memorandum.		
Mode of Management Entity	Ownership is believed belongs to the community in traditional manner and custom.  Administrative body was formed, the community and Sheikh appointing the following members; a) manager (1), b) accountant/meter reader/fee collector (1), and c) operator (1).  After the scheme broken down, the administrative body became inactive.  Administrative board had worked on voluntary bases.  In future when the rehabilitation project is implemented, there is observed willingness to fo new CBO scheme management following the guideline for registration under Ministry of Scheme.				
Organizational Management	Affairs.  No constitution and by-law had been prepared.  Managerial decisions are made by village authority (Sheikh and Agil) and management bod appointed. However, the scheme management had been closely observed by the community (informal monitoring/checking system worked in a small community).				
Technical Operation and Maintenance	However, it has neth community. Meter was not instal consumption. Pipeline network was of each zone were re-	ner been neither replaced nor led in the pump unit, so that the s divided into three (3) zones	ble pump) had been frequently repaired.  new borehole been constructed by the  ne produced water was not compared with  for operational purposes. User communiti  f house connection pipelines in the zone, one of main pipeline.		
		YR 20/m3 (in late 90s) ge for a household per month operated, income and balance			
Stakeholder Involvement / Responsibility Sharii			ne construction stage of the existing supply		
•		onnection with meter.	te construction stage of the existing supply		

Community Contracting-Out	I nere are three (3) Sheikh (possibly Agil) in the village. Although the relationship among
Conflict Resolution	them is reported as cooperative, this setting could be a trigger of conflict. Background for this setting with three (3) Shelkh in one community and conflict resolution mechanism shall be further examined.
Pro-Gender and Pro-Poor	
Remarks	There are three (3) Sheikh (possibly Aqll) in the village. There is also sheik in Uzula where the community is located. Thus, they are probably Aqul, instead of Sheikh. Those village authorities do not have the area allocation in the village designated for traditional leadership. Relationship among those Sheikh was said cordial and cooperative. However, three (3) Sheikh existing in one village is unique case in the area, so that careful observation shall be required in the planning and implementing stages. It is mentioned that the pump units are broken down because of overloaded operation in dry well. However, it shall be further examined whether it was broken because of dry well or misuse of the pump unit.  CBO (charity organization) was formed in late 80's for relief of the poor by food provision. However, it had been inactive and dissolved due to decreasing interest of individual supporters. It is said that the food was provided to the poor, raising contribution from betteroff, in which the supporter could not find any benefit.  New borehole for rehabilitation/reconstruction of the scheme was drilled successful with good yield and water quality in about 2.5 km away from the village center, located on the boundary of the village. Other three (3) borehole had been drilled prior to the successful borehole. Locating of the borehole drilling sites was done by GARWSP Branch Office, which does not have necessary equipment for groundwater investigation.  Pumping test for the new borehole was conducted by GARWSP in 2005, of which result was satisfactory. However, the community employed another contractor for pump test (24 hours) due to distrust for GARWSP and the result of the one carried out by GARWSP. The cost of RY 200,000 for employing the contractor for additional pumping test was contributed by Shaikh and the community members. The results confirmed also satisfactory.  No pumping test has not been carried out for the existing (old) borehole constructed in 1982 and reported dry.  Existing water sources: Most of

- S	ENTIFICATION PANEL							
- S	Item				Description			
-	Code No.	S-03					· · · · · · · · · · · · · · · · · · ·	
-	Site Name	Al Kharaba	·					
):	Sub-District (Uzlat)							
. ;		Bani Matar			Γ.		- 1 Trage	
		Sana'a	<del></del>				- T. F. F. F. F. F. F. F. F. F. F. F. F. F.	1 1 1 1 1 1 1 1 1
i .	Governorate		Langituda	l		<del></del>	****	<u> </u>
(	Coordinates	Latitude	Longitude	· · · · · · · · · · · · · · · · · · ·	:			
				l				
(	Coordinates (Measured Location)					<del></del>		
	Annual precipitation (rainfall)	370	mm				<u> </u>	
	Population (2006)	1,361						
		1,670		k				Tribles
	No. of Village (Qariah) in Total	3			1.000			-
	No. of Village (Qariah) to be served	3	i				0	/  a\ /   an\
	i	Na	me	Pop	oulation	Household	Coordinate	(Lat / Lon)
	•	Al Kharaba		!	890	140		· ·
ار.	Village (Qariah) in the Community	Mahal Mahyi	ab	_	278	46		
	,	Bait Awadh	<del></del>	I	193	37		
		Wade Al Qe	-lah			1		
_		Wade Al Qe	Jian	!		1 :		
∃XISTII	NG WATER SUPPLY SCHEME PANEL							
No.	Item				Description			
1	Functioning	Non-function	al				· · ·	
	Components of Existing Water Supply Scheme	Comp	onent	Spec	cification	Condition	Year	Fund
	<u> </u>	Pump for De		Vertical	Ĭ	Damaged 20	1985	GAREW
		Engine for D		24HP	Yanmar	Broken in 20		GAREW
						· · ·		Local Counc
			for Deep We	Concrete b	IOCK	Cannot use	1965	Local Counc
	. <u> </u>		it for Booster	ļ		<u>.                                    </u>		
		Eng./Gen. fo						
		Pump House	for Booster			i		
- ·		Booster Tan		-			<del></del>	
		Distribution 1		х 3	-	Cannot use	1985	Local Counc
		L			<del> </del>			Local Counc
		Pumping Ma		SGP		Cannot use	1900	Local Count
!		Distribution I		l		1		
		Public Tapst		3 (4 taps)		Not function		Charity
		House Conn	ection	į	İ			
				from privata	wolla pou for	fuel: YR20/per	elmon (includ	ling children
į*	Observations	Residents no	ow use water	from private	wells, pay lor	iuei. 1 K20/pei	s/mon (inclu	ang candien
WATER	R SOURCE PANEL							
No.	Item				Description			
			<u> </u>					F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	[Borehole Code]	, , , , , , , , , , , , , , , , , , ,	F4				- 1 2 A	The second second
	Grid (UTM)	North	East					M4 - 11 - 2
i		1693207	390761				_ 3	- 4
-	O-i-l (I -NI)	Lat. N	Lon. E					
	Grid (Lat/Lon)	15°18' 47.2"	43°58' 56.4"					
	Present Condition (Pump Type)		Vertical purr			· · · · · · · · · · · · · · · · · · ·		
		2,935						10.000.000
	Elevation (m)		111	.!			**	
	Aquifer/Geological Description	<u></u>						
	Year of Construction	1982	· 					1.00
	Fund	GAREW		j			<u> </u>	
- 1	Depth (m)	150	m	T			E)	医胚腺化 追提
	Casing Diameter (inch)	8-5/8	inch		<del></del>			
		0 0,0		<del></del> .	· · · · · - <del></del>	<del></del>		
	Screen							
	Static Water Level (G.Lm)	44.9						
		80.8	m					
	Dynamic Water Level (G.Lm)	<u> </u>	_					
	Dynamic Water Level (G.Lm)  Drawdown (m)	35.9	Ш					
	Drawdown (m)	35.9		3.	.5 L/sec			
	Drawdown (m) Discharge (g/min)	35.9 55	g/min	3.	5 L/sec			i e i
	Drawdown (m) Discharge (g/min) Specific Capacity	35.9 55 0.097	g/min L/s/m	3.	5 L/sec			4 1 2 2 2
	Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	35.9 55 0.097 61.5	g/min L/s/m mS/m	3.	5 L/sec			
	Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH	35.9 55 0.097 61.5 7.64	g/min L/s/m mS/m	3.	5 L/sec			
	Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	35.9 55 0.097 61.5	g/min L/s/m mS/m	3.	5 L/sec			
	Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH	35.9 55 0.097 61.5 7.64	g/min L/s/m mS/m	3.	5 L/sec			
	Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH Temperature ('C)	35.9 55 0.097 61.5 7.64	g/min L/s/m mS/m	3.	5 L/sec			
	Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH	35.9 55 0.097 61.5 7.64	g/min L/s/m mS/m	3.	5 L/sec			

o. Item [Design Parameter]			Descri	puon	
No. of Villages in Total	3				
No. of Villages to be Covered	3			- 1 1 1 1 1 1 1 1	
Current Population (2006)	1,361				
Design Population (2016)	1,670		*		
Design Water Supply Rate		L/c/d	67 m³/day	[	in the second second second second second second second second second second second second second second second
Type of Work Required	New construc		i in ruay		
			To be Constructed	hu. No	tan
Required Facilities	Compo		To be Constructed	<sup>-</sup> .	tes
	Pump for Dee	· ·	Donor	Replace	
	Eng./Gen. for			Replace	
<u> </u>			Donor/Village	New	
	Pump for Boo			İ	
<u> </u>	Eng /Gen. for			!	
·	Pump House				
	Booster Tank			ii	
<u> </u>	Distribution Ta		Donor	New	
!	Pumping Mair		Donor	New	
	Distribution M		Donor	New	
1	Public Tapsta		Donor	New	
	House Conne	ctions	Village	New	
Accessibility	Good			<u> </u>	
Security					
Observation	<u>i "</u>				
PERATION AND MAINTENANCE PANEL					
o.   ltem			Descri	ption	
No. of Village Head (Sheikh)	1				
No. of Tribe	1		<del></del>	The state of the s	
	revenue colle	cted by Shei	kh.	cost was borne by Sheikh	
Observation in Current Supply Scheme	revenue colled Until the publi borehole site. There is no ho Existing water One private w Water is provi	cted by Shei c stands wel cuse connect sources are rell is connect ded for com	kh.  re constructed by indivition because of the post three (3) cisterns, are cited to the school and munity members at free	vidual charity, water is pro oor economic conditions o d four (4) private well for	vided on the of the community.
	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim	cted by Shei c stands wei c stands wei cuse connect sources are rell is connect ded for com arily for irrige	kh.  re constructed by individent because of the period of three (3) cisterns, are sted to the school and munity members at freation).	vidual charity, water is pro por economic conditions of id four (4) private well for mosque.	vided on the of the community.
Observation in Current Supply Scheme  Mode of Ownership	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne	cted by Shei c stands wel cuse connect sources are rell is connect ded for com- arily for irriga- ership arrang	kh.  re constructed by individent because of the post three (3) cisterns, are sted to the school and munity members at freation).  gement are made.	vidual charity, water is proper economic conditions of the conditi	ovided on the of the community. irrigation.
Mode of Ownership	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne	cted by Shei c stands wel cuse connect sources are rell is connect ded for com- arily for irriga- ership arrang	kh.  re constructed by individent because of the post three (3) cisterns, are sted to the school and munity members at freation).  gement are made.	vidual charity, water is pro por economic conditions of id four (4) private well for mosque.	ovided on the of the community. irrigation.
	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owner Scheme mana	cted by Shei c stands wel c sources are rell is connected ded for com- arily for irriga- ership arrang- agement has munity memb	kh. re constructed by individed	vidual charity, water is propor economic conditions of the form (4) private well for mosque.  Sheikh, appointing one (1)	ovided on the of the community. irrigation.
Mode of Ownership	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owner Scheme mana Some of common maintenance of	cted by Shei c stands wel c sources are rell is connect ded for com arily for irriga ership arrang agement has munity membeosts had be	kh.  re constructed by individe	vidual charity, water is propor economic conditions of the four (4) private well for mosque. The cost from the private well should be cost from the private well should be cost from the private well should be cost.	ovided on the of the community. irrigation.
Mode of Ownership  Mode of Management Entity	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owner Scheme mana Some of common maintenance of	cted by Shei c stands wel c sources are rell is connect ded for com arily for irriga ership arrang agement has munity membeosts had be	kh.  re constructed by individe	vidual charity, water is propor economic conditions of the four (4) private well for mosque. The cost from the private well should be cost from the private well should be cost from the private well should be cost.	ovided on the of the community. irrigation.
Mode of Ownership	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owner Scheme mana Some of common terms of common constitution	cted by Shei c stands well c sources are rell is connected ded for com- arily for irriga- ership arrangagement has munity memilicosts had be in for the sch	kh. re constructed by individed	vidual charity, water is propor economic conditions of different (4) private well for mosque.  She cost from the private well for the private well for fuel cost.	ovided on the of the community. irrigation. ells (those wells
Mode of Ownership  Mode of Management Entity	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owner Scheme mana Some of common terms of constitution Cash contribu	cted by Shei c stands well c sources are sources are sell is connect ded for com- arily for irriga- ership arrang- agement has munity memi- costs had be in for the sch	kh.  re constructed by individed by individed by individed by individed by individed by individed by constructed to the school and munity members at freation).  gement are made, been undertaken by been undertaken by been contributed privates borne by Sheikh, are management has an collected and management.	vidual charity, water is propor economic conditions of different (4) private well for mosque.  She cost from the private well for the private well for fuel cost.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owner Scheme mana Some of commodintenance of No constitution Cash contribut Pump had bee	cted by Shei c stands well c sources are sources are rell is connect ded for commarily for irriga ership arrang agement has munity members agent has munity members had be too the schein operated	kh.  re constructed by individed by individed by individed by individed by individed by individed by constructed to the school and munity members at frost ation).  gement are made, been undertaken by been undertaken by been contributed privation borne by Sheikh, are management has an collected and manafor 4 hours per day, a	vidual charity, water is propor economic conditions of different formosque.  She cost from the private well for the private well for fuel cost.  She been prepared.  I ged by Aqil.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mana Some of common terms of constitution Cash contribu Pump had bee Replacement	cted by Shei c stands well c sources are sources are rell is connect ded for com- arily for irriga ership arrang agement has munity memilicosts had be not for the schein tion had been of pump unit	kh. re constructed by individent because of the period of the period of the school and munity members at freation). It is been undertaken by the been undertaken by the borne by Sheikh. It is members at management has an collected and management and the pump head, and cylindres.	vidual charity, water is propor economic conditions of different forms and four (4) private well for mosque.  Sheikh, appointing one (1) tely for fuel cost.  Is been prepared.  Indiged by Aqil.  Indiged for 4-5 days in a week.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mana Some of commodintenance of No constitution Cash contribu Pump had bee Replacement costs were bo	cted by Sheic stands well ouse connect sources are sell is connected for comparily for irrigation for the school had been operated of pump unit me by Sheik	kh.  re constructed by individent because of the period of the period of the period of the period of the period of the school and munity members at freation).  It is been undertaken by the period of	vidual charity, water is propor economic conditions of different forms and four (4) private well for mosque.  Sheikh, appointing one (1) tely for fuel cost.  Is been prepared.  Indiged by Aqil.  Indiged for 4-5 days in a week were under of generator were under the properties.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mana Some of comm Maintenance No constitutio Cash contribu Pump had bee Replacement costs were bo Water Tariff S	cted by Sheicted b	kh. re constructed by indirection because of the period three (3) cisterns, and the tent of the school and munity members at free to the school and munity members at free to the school and munity members at free to the school and t	vidual charity, water is propor economic conditions of different forms well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week inder of generator were urong to the proportion of the	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of comm Maintenance No constitution Cash contribu Pump had bee Replacement costs were bo Water Tariff S	cted by Sheicted b	kh. re constructed by indirection because of the period three (3) cisterns, and the school and munity members at free three to the school and munity members at free thr	vidual charity, water is propor economic conditions of different forms well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week inder of generator were urong to the proportion of the	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of comm Maintenance No constitution Cash contribu Pump had bee Replacement costs were bo Water Tariff h No bank acco	cted by Sheicted b	kh. re constructed by indirection because of the parent of the school and munity members at frost ation). It is been undertaken by been contributed privation borne by Sheikh. It is management haven collected and manafor 4 hours per day, at the year per capita (incrected and managed by the contributed by the collected and managed by the collected and managed by the contributed by the collected and managed by the contributed by t	vidual charity, water is propor economic conditions of dour (4) private well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week finder of generator were ur luding females and childrey Aqil.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of commodification Maintenance No constitution Cash contribut Pump had bee Replacement costs were bo Water Tariff is No bank acco There was no	cted by Sheicted b	kh. re constructed by indirection because of the particle (3) cisterns, and the school and munity members at frost ation). It is been undertaken by the been undertaken by the been undertaken by the been borne by Sheikh. It is the collected and manafor 4 hours per day, a standard proper the collected and manafor 4 hours per day, a standard per day, and the collected and managed by the collected and the colle	vidual charity, water is propor economic conditions of dour (4) private well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week finder of generator were ur luding females and childrey Aqil.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of commodification Maintenance No constitution Cash contribu Pump had bee Replacement costs were bo Water Tariff S Water Tariff h No bank acco There was no Financial statu	cted by Sheit c stands were connect sources are rell is connect ded for comparity for irrigation and the second stands are ship arrangement has munity members had been operated of pump unity me by Sheit tructure; and been collunt had been auditing sysus had not be	kh. re constructed by indirection because of the potential of the potential of the school and munity members at frostion). It is been undertaken by been contributed private borne by Sheikh. It is management have collected and manafor 4 hours per day, a standard private of the school of the potential of the school of the sc	vidual charity, water is propor economic conditions of dour (4) private well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week finder of generator were ur luding females and childrey Aqil.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of commodification Maintenance No constitution Cash contribu Pump had bee Replacement costs were bo Water Tariff S Water Tariff h No bank acco There was no Financial statu Free water is	cted by Sheit c stands were connect sources are rell is connect ded for comparity for irrigation and the sen costs had been constant of the school of the sc	kh. re constructed by indirection because of the potential of the potential of the school and munity members at frosted to the school and munity members at frosted of the school and munity members at frosted of the school and personal of the school of th	vidual charity, water is propor economic conditions of dour (4) private well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week finder of generator were ur luding females and childrey Aqil.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of commodification Maintenance No constitution Cash contribu Pump had bee Replacement costs were bo Water Tariff S Water Tariff h No bank acco There was no Financial statu Free water is	cted by Sheit c stands were connect sources are rell is connect ded for comparity for irrigation and the sen costs had been constant of the school of the sc	kh. re constructed by indirection because of the potential of the potential of the school and munity members at frosted to the school and munity members at frosted of the school and munity members at frosted of the school and personal of the school of th	vidual charity, water is propor economic conditions of dour (4) private well for mosque. Sheikh, appointing one (1 tely for fuel cost. s been prepared. Iged by Aqil. Ind for 4-5 days in a week finder of generator were ur luding females and childrey Aqil.	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of comr Maintenance No constitution Cash contribu Pump had be Replacement costs were bo Water Tariff S Water Tariff h No bank acco There was no Financial statu Free water is in No training ha	cted by Sheicted by Sheicted by Sheicted Stands were connected for commarity for irrigates and the second for the school of the	kh. re constructed by indirection because of the potential of the potential of the school and munity members at frosted to the school and munity members at frosted of the school and munity members at frosted of the school and personal of the school of th	vidual charity, water is propor economic conditions of four (4) private well for mosque. The cost from the private well for fuel cost. The been prepared. The proportion of the private well for fuel cost. The proportion of the private well for fue	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of comr Maintenance No constitution Cash contribu Pump had be Replacement costs were bo Water Tariff S Water Tariff h No bank acco There was no Financial statu Free water is in No training ha	cted by Sheicted by Sheicted by Sheicted Stands were connected for commarity for irrigates and the second for the school of the	kh. re constructed by indirection because of the potential of the potential of the school and munity members at frosted to the school and munity members at frosted of the school and munity members at frosted of the school and management are made. The school of the school of the school of the school of the school of the school of the school of the poor ided by stakeholders.	vidual charity, water is propor economic conditions of four (4) private well for mosque. The cost from the private well for fuel cost. The been prepared. The proportion of the private well for fuel cost. The proportion of the private well for fue	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharing	revenue coller Until the publi borehole site. There is no ho Existing water One private w Water is provi are used prim No legal owne Scheme mans Some of comr Maintenance No constitution Cash contribu Pump had be Replacement costs were bo Water Tariff S Water Tariff h No bank acco There was no Financial statu Free water is in No training ha	cted by Sheic stands were connect sources are rell is connect ded for comparity for irrigation and the school of the school of the school of pump unity me by Sheik tructure: ad been colleunt had been auditing sysus had not be provided for downs construction to the school of the sch	kh. re constructed by indirection because of the pose three (3) cisterns, and the school and munity members at frostation). Igneent are made. Is been undertaken by beers contributed privates borne by Sheikh. In collected and manafor 4 hours per day, a street, and cylick.  YR 20 per capita (increased and managed by the community street are disclosed. It is poor ided by stakeholders. It is the poor ided by the community street and increased by the community indirections.	vidual charity, water is propor economic conditions of four (4) private well for mosque. The cost from the private well for fuel cost. The been prepared. The proportion of the private well for fuel cost. The proportion of the private well for fue	ovided on the of the community. irrigation. ells (those wells ) operator.
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharing	revenue collect Until the public borehole site. There is no he Existing water One private we Water is provict are used prime. No legal owner of common Maintenance of No constitution Cash contribut. Pump had been Replacement costs were been water Tariff in No bank accoording the Maintenance of the Water Tariff in No bank accoording the Water Tariff in No bank accoording the Water Tariff in No bank accoording the Water Tariff in No bank accoording the Water than the Water than the Water than the Water than the Water than the Water is an American the Water than the Water t	cted by Shei c stands wel c stands wel c stands wel c sources are rell is connect ded for come arily for irriga ership arrang agement has munity memi costs had be n for the sch tion had bee en operated of pump unit me by Sheik tructure: ad been coll unt had been auditing sys us had not be provided for d been prov was construct re is no triba	kh. re constructed by individent because of the potential of the school and munity members at frosted to the school and munity members at frosted to the school and munity members at frosted in the school of the s	vidual charity, water is propor economic conditions of four (4) private well for mosque. The cost from the private well for fuel cost. The been prepared. The proportion of the private well for fuel cost. The proportion of the private well for fue	ovided on the of the community. irrigation. ells (those wells ) operator.  ndertaken, of whilen)
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin Community Contribution Community Contracting-Out	revenue collect Until the public borehole site. There is no he Existing water One private we Water is provict are used prime. No legal owner of common Maintenance of No constitution Cash contribut. Pump had been Replacement costs were been water Tariff in No bank accoording the Maintenance of the Water Tariff in No bank accoording the Water Tariff in No bank accoording the Water Tariff in No bank accoording the Water Tariff in No bank accoording the Water than the Water than the Water than the Water than the Water than the Water is an American the Water than the Water t	cted by Sheic stands well course connect sources are rell is connect ded for comparity for irrigation and the second sources are rell in content of the school of pump unity members and been collected been collected and the second source was constructed for the school of pump unity members and been collected been collected for document by Sheik tructure:  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for do	kh. re constructed by individent because of the potential of the school and munity members at frosted to the school and munity members at frosted to the school and munity members at frosted in the school of the s	vidual charity, water is propor economic conditions of four (4) private well for mosque.  Sheikh, appointing one (1 tely for fuel cost.  s been prepared.  Iged by Aqil.  Ind for 4-5 days in a week inder of generator were urluding females and childre y Aqil.  Cocount.	ovided on the of the community. irrigation. ells (those wells ) operator.  ndertaken, of whilen)
Mode of Ownership  Mode of Management Entity  Organizational Management  Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin Community Contribution Community Contracting-Out	revenue collect Until the public borehole site. There is no he Existing water One private we Water is provict are used prime. No legal owner of common Maintenance of No constitution Cash contribut. Pump had been Replacement costs were book water Tariff of No bank accook There was no Financial statut. Free water is no No training had Pump house we currently, there in 80's, there water is no Replacement in 80's, there water is no training had pump house we controlled the sold of the pump house we controlled the pump house we controlle	cted by Sheic stands well course connect sources are rell is connect ded for comparity for irrigation and the second sources are rell in content of the school of pump unity members and been collected been collected and the second source was constructed for the school of pump unity members and been collected been collected for document by Sheik tructure:  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for document by Sheik tructure;  and been collected for do	kh. re constructed by individent because of the potential of the school and munity members at frosted to the school and munity members at frosted to the school and munity members at frosted in the school of the s	vidual charity, water is propor economic conditions of four (4) private well for mosque.  Sheikh, appointing one (1 tely for fuel cost.  s been prepared.  Iged by Aqil.  Ind for 4-5 days in a week inder of generator were urluding females and childre y Aqil.  Cocount.	ovided on the of the community. irrigation. ells (those wells ) operator.  ndertaken, of whicen)

SITE								
No.	ltem	İ			Description			
	Code No.	S-04	1				13.	
	Site Name	Qamlan-Bail	t Al Najrani					
	Sub-District (Uzlat)							-1
	District	Bani Matar					**	
	Governorate	Sana'a						
		Latitude	Longitude	1	·		<u>.</u>	
	Coordinates	Lautude	Longitude			<del></del>		
	Coordinates (Measured Location)		<u> </u>	L	·			· · · · · · · · · · · · · · · · · · ·
	Annual precipitation (rainfall)			Т				72.20.20.
	1	<del></del>	mm			<del>-                                    </del>		<u>. 1 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
	Population (2006)	629		ļ				or plant of
	Population Forecast (2016)	772						
	No. of Village (Qariah) in Total	2						
	No. of Village (Qariah) to be served	2	<u> </u>				<u> </u>	
	· -	Na	ame	To Be Serve	Population	Household	Coordinate	e (Lat / Loi
	Village (Qariah) in the Community	Qamlan		ļ	225			!
	<del>.</del> i	Bait Al Najra	ni	· · · · · · · · · · · · · · · · · · ·	404		<del></del>	1
XIST	ING WATER SUPPLY SCHEME PANEL							
lo.	! Item	i			Description			-
	Functioning	Partially exis	ting				12 1	
	Components of Existing Water Supply Scheme	· · · · · · · · · · · · · · · · · · ·	onent	Snecil	ication	Condition	Year	Enn-
		Pump for De		Vertical	,-uu-/	Condition		Fund
	<del> </del>			verticat		-		GAREW
	· 	Engine for D				i		GAREW
			fof Deep We	Concrete blo	CK		1977	Village
	<u> </u>	Pump for Bo						<u> </u>
		Eng./Gen. fo						
		Pump House				:		
		Booster Tank	k					
		Distribution 1	Tank	Rock, open	25m <sup>3</sup>		1077	170
			· Carint	Nock, open	25m <sup>2</sup>	i	1977	village
		Pumping Ma		SGP				Village Village
		Pumping Ma Distribution N	in	SGP	to open tank		1977	Village
		Distribution N	in Vain	SGP SGP			1977 1977	Village Village
		Distribution N Public Tapsta	in Main and	SGP	to open tank		1977 1977	Village
		Distribution N	in Main and	SGP SGP	to open tank		1977 1977	Village Village
	Observations	Distribution N Public Tapsta	in Main and	SGP SGP	to open tank		1977 1977	Village Village
VATE	<u>                                       </u>	Distribution N Public Tapsta	in Main and	SGP SGP	to open tank		1977 1977	Village Village
	R SOURCE PANEL	Distribution N Public Tapsta	in Main and	SGP SGP	to open tank from tank to v		1977 1977	Village Village
VATE	R SOURCE PANEL	Distribution N Public Tapsta	in Main and	SGP SGP	to open tank		1977 1977	Village Village
	R SOURGE PANEL  Item  [Borehole Code]	Distribution N Public Tapstr House Conne	in Main and ection	SGP SGP	to open tank from tank to v		1977 1977	Village Village
	R SOURCE PANEL	Distribution North	in Main and ection East	SGP SGP	to open tank from tank to v		1977 1977	Village Village
	R SOURGE PANEL  Item  [Borehole Code]	Public Tapstr House Conne North 1677966	in Main and ection  East 389807	SGP SGP	to open tank from tank to v		1977 1977	Village Village
	R SOURGE PANEL  Item  [Borehole Code]	Public Tapstr House Conne North 1677966 Lat, N	in Main and ection  East 389807 Lon. E	SGP SGP	to open tank from tank to v		1977 1977	Village Village
	R SOURGE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	North 1677966 Lat. N 15°10' 31.1"	East 389807 Lon. E 43°58' 27.4"	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	North 1677966 Lat. N 15°10' 31.1"	in Main and ection  East 389807 Lon. E 43°58' 27.4"  Vertical pum	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	R SOURGE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	North 1677966 Lat. N 15°10' 31.1"	in Main and ection  East 389807 Lon. E 43°58' 27.4"  Vertical pum	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
O	R SOURGE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	North 1677966 Lat. N 15°10' 31.1"	in Main and ection  East 389807 Lon. E 43°58' 27.4"  Vertical pum	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
0.	R SOURGE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	North 1677966 Lat. N 15°10' 31.1"	East 389807 Lon. E 43°58' 27.4" Vertical pum	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
O	R SOURGE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	North 1677966 Lat. N 15°10' 31.1" Working 2,748	East 389807 Lon. E 43°58' 27.4" Vertical pum	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
0.	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975	East 389807 Lon. E 43°58' 27.4" Vertical pump	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
O	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW	East 389807 Lon. E 43°58' 27.4" Vertical pum	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW	East 389807 Lon. E 43°58' 27.4" Vertical pump	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	R SOURGE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8	in Main and ection  East 389807 Lon. E 43°58' 27.4" Vertical pum m inch	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
D	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8	in Main and ection  East 389807 Lon. E 43°58' 27.4" Vertical pum m inch	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9	in Main and ection  East 389807 Lon. E 43°58' 27.4"  Vertical pum m inch m	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9	East 389807 Lon. E 43°58' 27.4" Vertical pum m inch m	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9 0.9	East 389807 Lon. E 43°58' 27.4" Vertical pum m inch m g/min	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9 89 6,222	East 389807 Lon. E 43°58' 27.4" Vertical pum m inch m m g/min L/s/m	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
D	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9 89 6,222	East 389807 Lon. E 43°58' 27.4" Vertical pum m inch m g/min	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
O	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9 89 6,222	East 389807 Lon. E 43°58' 27.4" Vertical pump m inch m g/min L/s/m mS/m	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
O	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9 0.9 89 6.222 33.8 7.36	East 389807 Lon. E 43°58' 27.4" Vertical pump m inch m g/min L/s/m mS/m	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village
	R SOURGE PANEL  [Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	North 1677966 Lat. N 15°10' 31.1" Working 2,748 1975 GAREW 145 8 10 10.9 0.9 89 6.222 33.8	East 389807 Lon. E 43°58' 27.4" Vertical pump m inch m g/min L/s/m mS/m	SGP SGP 1 in valley	to open tank from tank to v		1977 1977	Village Village

WAT	ER SUPPLY PLANNING PANEL						
No.	ltem	<u> </u>	Description	1			
	[Design Parameter]						
	No. of Villages in Total	2					
	No. of Villages to be Covered	2		<u></u>			
	Current Population (2006)	629	to the second se				
	Design Population (2016)	772					
	Design Water Supply Rate	40 L/c/d	31 m³/day				
	Type of Work Required	New construction		r de la Colonia			
	Required Facilities	Component	To be Constructed by	Notes			
		Pump for Deep Well	Donor	Replace			
l		Eng./Gen. for Deep Well	Donor	Replace			
		Pump House for Deep W	e Donor/Village	New			
		Pump for Booster					
		Eng./Gen. for Booster					
		Pump House for Booster					
		Booster Tank					
		Distribution Tank	Donor	New			
	······································	Pumping Main	Donor	New			
	1	Distribution Main	Donor	New			
	:	Public Tapstand	Donor	New (for mosque, school and clinic on			
	;	House Connections	Village	New			
	Accessibility	Good, near paved road					
	Security	!					
	Observation						
OPE	RATION AND MAINTENANCE PANEL						
No.	ltem	!	Description	1			
	No. of Village Head (Sheikh)						
	No. of Tribe			negal, saansa ji Dhele Shu Tarah kan in Saansa Shalah			
	Observation in Current Supply Scheme		i	j l			
İ	Mode of Ownership						
	Mode of Management Entity	1					
	Organizational Management	İ					
	Technical Operation and Maintenance						
	Financial Management and Transparency						
	Stakeholder Involvement / Responsibility Sha	ring					
	Community Contribution			:			
	Community Contracting-Out						
	Conflict Resolution						
	Pro-Gender and Pro-Poor						
	Remarks		†				

	DENTIFICATION PANEL							
۱o.	ltem		p		Description			
	Code No.	S-05	<u> </u>			<u> </u>	i najáraj	
	Site Name	Afesh			<u> </u>		2	
	Sub-District (Uzlat)							<del> </del>
	District	Belad Al Ro	JS			· · · · · · · · · · · · · · · · · · ·		, 4.1 
	Governorate	Sana'a			·	:		Name of the second seco
	10	Latitude	Longitude				*	
	Coordinates							
	Coordinates (Measured Location)	!		-				
	Annual precipitation (rainfall)	480	mm		<u>:</u>			
	Population (2006)	3,680	<del></del>			<u> </u>		
	Population Forecast (2016)	14,517				<u> </u>	1 4	
	No. of Village (Qariah) in Total	1				<u> </u>		<u> </u>
	No. of Village (Qariah) to be served	1						1 14
	William (Oppinis) in the Community	Na	ame	Pop	ulation	Household	Coordinate	(Lat / Lon)
	Village (Qariah) in the Community	Afesh			3,680	609		
XIST	ING WATER SUPPLY SCHEME PANEL							
0.	Item				Description			
	Functioning	Non-function	nal					5, 1, 1, 46, 1
	Components of Existing Water Supply Sch	neme Com	ponent	Spec	ification	Condition	Year	Fund
	i	Pump for De		Submersible	e!	Removed	1999	MAI
			r Deep Well	80kVA	IVECO-FIAT	Cannot use	1999	MAI
			e for Deep W	<u></u>	i		1999	MAI
		Pump for Bo		Horizontal	CAPRARI	Cannot use	1999	MAI
		Engine for B			AP	Cannot use	1999	MAI
			e for Booster	RC	next to deep		1999	
	- ·· · · -	Booster Tan		RC	75m <sup>3</sup>		1999	
		Distribution		RC	-   73111   100m <sup>3</sup>		1999	
			Tank				1000	1017 11
					TOOM		1000	ΜΔΙ
		Pumping Ma	ain	SGP	TOOM	ļ	1999	
		Pumping Ma Distribution	nin Main	SGP SGP	TOOM		1999	MAI
		Pumping Ma Distribution Public Tapsi House Conn	nin Main tand nection	SGP SGP 3 (3 taps)		try of Agricultu	1999 1999	MAI MAI
	Observations	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of	nin Main tand nection y system was Northern Are	SGP SGP 3 (3 taps) constructed a Developme	by MAI (Minis ent (Sada'ah, I mall private sp	lajjah, Amran	1999 1999 re and Irrigat	MAI MAI ion), Gener
	R SOURCE PANEL	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of	ain Main tand nection y system was Northern Are onlu 2 days.	SGP SGP 3 (3 taps) constructed a Developme	by MAI (Minis ent (Sada'ah, I mall private sp nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Genei
/ATE	R SOURCE PANEL	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of	ain Main tand nection y system was Northern Are onlu 2 days.	SGP SGP 3 (3 taps) constructed a Developme	by MAI (Minis ent (Sada'ah, I mall private sp	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Genei
	R SOURCE PANEL	Pumping Ma Distribution Public Tapsi House Conn Water suppl Authority for but worked of	ain Main tand tection y system was Northern Are onlu 2 days. 1 school and	SGP SGP 3 (3 taps) constructed a Developme	by MAI (Minis ent (Sada'ah, I mall private sp nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,	Main Main tand tection y system was Northern Are onlu 2 days. 1 school and	SGP SGP 3 (3 taps) constructed a Developme	by MAI (Minis ent (Sada'ah, I mall private sp nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL	Pumping Ma Distribution Public Tapsl House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558	Main Main tand nection y system was Northern Are onlu 2 days. 1 school and East 416749	SGP SGP 3 (3 taps) constructed a Developme	by MAI (Minis ent (Sada'ah, I mall private sp nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
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	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Pumping Ma Distribution Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04′ 23.5″	Main Main Main Main Main Main Main Main	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private sp nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working	East 416749 Lon. E 1044°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Pumping Ma Distribution Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04′ 23.5″	East 416749 Lon. E 1044°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working	East 416749 Lon. E 1044°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working	East 416749 Lon. E 444°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006	East 416749 Lon. E 444°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Pumping Ma Distribution I Public Tapsl House Conr Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006	East 416749 Lon. E 144°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006  1996 MAI 300	East 416749 Lon. E 144°13' 31.2' Open	SGP SGP 3 (3 taps) constructed a Developme Now using sr no health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006  1996 MAI 300	East 416749 Lon. E 400 m	SGP SGP 3 (3 taps) constructed a Development Now using sring health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006  1996 MAI 300	East 416749 Lon. E 144°13' 31.2' Open 5 m	SGP SGP 3 (3 taps) constructed a Development Now using sring health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5" Not working 2,006 MAI 300	East 416749 Lon. E 444°13' 31.2' Open 6 m 6 inch	SGP SGP 3 (3 taps) constructed a Development Now using sring health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006 MAI 300	East 416749 Lon. E 44°13' 31.2 Open 5 m 6 inch	SGP SGP 3 (3 taps) constructed a Development Now using sring health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	Pumping Ma Distribution I Public Tapsl House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006 MAI 300 8 213.0 231.2 18.2	East 416749 Lon. E 44°13' 31.2 Open 5 m 6 inch	SGP SGP 3 (3 taps) constructed a Development Now using srange health ce	by MAI (Minis ent (Sada'ah, I mall private spi nters.	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	Pumping Ma Distribution I Public Tapsl House Conr Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5' Not working 2,006 MAI 300 88 213.0 231.2 18.2 51	East 416749 Lon. E 44°13' 31.2' Open 6 m 7 inch	SGP SGP 3 (3 taps) constructed a Development Now using srange health ce	by MAI (Minis ent (Sada'ah, I mail private spi nters.  Description	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m)  Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5" Not working 2,006 MAI 300 88 213.0 231.2 18.2 51 0.177	East 416749 Lon. E 144°13' 31.2' Open 6 m 6 inch m g/min / L/s/m	SGP SGP 3 (3 taps) constructed a Development Now using srange health ce	by MAI (Minis ent (Sada'ah, I mail private spi nters.  Description	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5" Not working 2,006 MAI 300 88 213.0 231.2 18.2 51 0.177	East 416749 Lon. E 44°13' 31.2' Open 6 m 7 inch 7 m 8 inch 8 m 9/min 1 L/s/m 6 mS/m	SGP SGP 3 (3 taps) constructed a Development Now using srange health ce	by MAI (Minis ent (Sada'ah, I mail private spi nters.  Description	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m)  Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	Pumping Ma Distribution I Public Tapsi House Conn Water suppl Authority for but worked of 4 mosques,  North 1666558 Lat. N 15°04' 23.5" Not working 2,006 MAI 300 88 213.0 231.2 18.2 51 0.177	East 416749 Lon. E 44°13' 31.2' Open 6 m 7 L/s/m 6 mS/m	SGP SGP 3 (3 taps) constructed a Development Now using srange health ce	by MAI (Minis ent (Sada'ah, I mail private spi nters.  Description	-lajjah, Amran ring (free).	1999 1999 re and Irrigat	MAI MAI ion), Gene

No. of Villages in Total	d clinic only
No. of Villages in Total   1   No. of Villages to be Covered   1   1   1   1   1   1   1   1   1	d clinic only
No. of Villages to be Covered Current Population (2006) Design Population (2016) Design Water Supply Rate Type of Work Required Required Facilities Pump for Deep Well Pump for Deep Well Pump for Booster Pump House for Deep Well Donor Replace Pump House for Booster Poonor/Village Rehabilitation Public Tapstand Poonor/Vil	d clinic only
Current Population (2006) Design Population (2016) Design Water Supply Rate 35 L/c/d 158 m³/day  Type of Work Required Required Facilities Component Required Facilities Pump for Deep Well Donor Replace Pump House for Deep We Donor/Village Replace Pump House for Booster Pump	d clinic only
Design Population (2016)   A,517   35 L/c/d   158 m³/day	d clinic only
Design Water Supply Rate	d clinic only
Type of Work Required Required Facilities Component Required Facilities Component Component Component To be Constructed by Notes Notes Pump for Deep Well Donor Replace Pump House for Deep Well Pump For Booster Pump House for Booster Eng./Gen. for Booster Donor Replace Rehabilitation Replace Pump House for Booster Donor Replace Rehabilitation Replace Pump House for Booster Donor/Village Rehabilitation Booster Tank Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Public Tapstand Donor House Connections New (for mosque, school and Village New Accessibility Security Observation OPERATION AND MAINTENANCE PANEL No. Item No. of Village Head (Sheikh) 1 Afish is name of village, instead of Afesh. Construction of the existing supply scheme was constructed and completed in 196 Integrated Rural Development Project by Ministry of Agriculture and Irrigation. Ho had functional error and could not supply even "a drop of water" since its completic assumed by the community, since the implementing agency did not give any accol	d clinic only
Required Facilities    Pump for Deep Well   Donor   New	d clinic only
Pump for Deep Well Donor Replace Eng./Gen. for Deep Well Donor Replace Pump House for Deep We Donor/Village Rehabilitation Pump for Booster Donor Replace Eng./Gen. for Booster Donor Replace Eng./Gen. for Booster Donor Replace Eng./Gen. for Booster Donor Replace Pump House for Booster Donor/Village Rehabilitation Booster Tank Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Public Tapstand Donor New (for mosque, school and House Connections Village New (for mosque, school and House Connections Village New New (for mosque, school and Accessibility Security Observation OPERATION AND MAINTENANCE PANEL No. Item Description No. of Village Head (Sheikh) 1 No. of Tribe 1 Afish is name of village, instead of Afesh. Construction of the existing supply scheme was constructed and completed in 1998 (Integrated Rural Development Project by Ministry of Agriculture and Irrigation. Ho had functional error and could not supply even "a drop of water" since its completic assumed by the community, since the implementing agency did not give any accol	d clinic only
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Eng./Gen. for Booster Pump House for Booster Pump House for Booster Donor/Village Rehabilitation Booster Tank Donor/Village Rehabilitation Pumping Main Pumping Main Donor/Village Rehabilitation Pumping Main Donor/Village Rehabilitation Pumping Main Pumping Main Donor/Village Rehabilitation Public Tapstand Public Tapstand Public Tapstand Public Tapstand Pohor New (for mosque, school and House Connections Village New  Accessibility Security Observation  OPERATION AND MAINTENANCE PANEL No. Item No. of Village Head (Sheikh) 1 No. of Tribe 1 Afish is name of village, instead of Afesh. Construction of the existing supply scheme was constructed and completed in 199 Integrated Rural Development Project by Ministry of Agriculture and Irrigation. Ho had functional error and could not supply even "a drop of water" since its completic assumed by the community, since the implementing agency did not give any according to the public assumed by the community, since the implementing agency did not give any according to the public assumed by the community, since the implementing agency did not give any according to the public accordin	d clinic only
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House Connections Village New  Accessibility Security Observation  OPERATION AND MAINTENANCE PANEL  No. Item Description  No. of Village Head (Sheikh) 1  No. of Tribe 1  Afish is name of village, instead of Afesh. Construction of the existing supply scheme was constructed and completed in 199 Integrated Rural Development Project by Ministry of Agriculture and Irrigation. How had functional error and could not supply even "a drop of water" since its completic assumed by the community, since the implementing agency did not give any account.	a cinac orny
Accessibility Security Observation  OPERATION AND MAINTENANCE PANEL  No. Item Description  No. of Village Head (Sheikh) 1  No. of Tribe 1  Afish is name of village, instead of Afesh. Construction of the existing supply scheme was constructed and completed in 199 Integrated Rural Development Project by Ministry of Agriculture and Irrigation. Howard functional error and could not supply even "a drop of water" since its completed assumed by the community, since the implementing agency did not give any account.	
Security   Observation   OPERATION AND MAINTENANCE PANEL     No.	
Observation  OPERATION AND MAINTENANCE PANEL  No. Item Description  No. of Village Head (Sheikh) 1  No. of Tribe 1  Afish is name of village, instead of Afesh.  Construction of the existing supply scheme was constructed and completed in 199  Integrated Rural Development Project by Ministry of Agriculture and Irrigation. How had functional error and could not supply even "a drop of water" since its completic assumed by the community, since the implementing agency did not give any account.	
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Integrated Rural Development Project by Ministry of Agriculture and Irrigation. Ho had functional error and could not supply even "a drop of water" since its completic assumed by the community, since the implementing agency did not give any according to the community of the implemental programment in the community of the implemental programment in the community of the community	
Community, that the pump units both for borehole and booster had technical error. pump units installed both for borehole and booster station is observed as secondh Pump unit and generator for borehole were replaced by other second hand ones, to failed to rift up groundwater to the reservoir located just beside to the pump house. It was observed by the community that the implementing agency carried out pump 19 hours, which confirmed water yield of 60 gallons/minute. Thus, the functional enot caused by borehole yield.  Intake and main distribution pipelines were installed instead of technical error with House connections and construction of public stands were not carried out.	unt to the The nand. which also ing test for error might
The existing scheme has not been handed over to the community from Ministry of	
Mode of Ownership Agriculture and Irrigation because of technical error with pump units.	
It is said that currently the ownership of the scheme is transferred to GARWSP.	
CBO for the scheme management had been established in 1999 when the scheme constructed. The CBO members were selected through the community election. I plan to register the CBO under Ministry of Social Affairs.  However, the CBO had been dissolved because of the scheme failure.	
Organizational Management Constitution was prepared, but no effected.	
Technical Operation and Maintenance Replacement of the pump units was undertaken by Ministry of Agriculture and Irrig Financial Management and Transparency Water tariff had not been collected because of the scheme failure.	ation.
Stakeholder Involvement / Responsibility Sharin Local Council was not involved.	
Community Contribution  There was no community contribution neither in cash nor kind.	
The communities are prepared for contribution in future project with GARWSP.	
Community Contracting-Out N/A	
Conflict Resolution Any community conflict cases were mentioned.  Pro-Gender and Pro-Poor N/A	
The area has no reliable water source. The community depends water for for dom on rain water (cistern) and stream in rain season, and spring in distance taking mo one hour to fetch in dry season. There is no borehole observed near the existing community are making request for service provision to GARWSP, instead Ministry of Agriculture and Irrigation.	ore than one id of
Land for the existing pump house and booster pump station is purchased by the or	ommunity

EIDENTIFICATION PANEL				Description			
Code No.	S-06	<u> </u>		Docomplian			
	<del></del>	<u> </u>				<del></del>	
Site Name	Al-Legam			<u> </u>	<u></u>		
Sub-District (Uzlat)	<u> </u>						·
District	Sanhan & Ba	ani Bahlool			<del></del>		
Governorate	Ѕапа'а				<u>, , , , , , , , , , , , , , , , , , , </u>	· .	
Odid	Latitude	Longitude			<u> </u>	<u> </u>	· 14 图 /
Coordinates							
Coordinates (Measured Location)							
Annual precipitation (rainfall)	330	mm					77.7
Population (2006)	1,068			· · · · · · · · · · · · · · · · · · ·			
Population Forecast (2016)	1,311			·	•		- 2000 A
	1,311	г			· · · · · · · · · · · · · · · · · · ·		5
No. of Village (Qariah) in Total		<u>i.</u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			والمنتاب
No. of Village (Qariah) to be served	<del> </del> -	<u>i</u>				01	
<u></u> ;		ime	To Be Served	Population	Household	Coordinate	(Lat / Lo
: 	Al Balad						
	Bait Mitash 1		i .				!
<del></del>	Bait Mitash 2	2	1				!
Village (Qariah) in the Community	Al Sardaja						i
	Magar Al Fai	 Га	<del> </del>		:		i
	Al Dayq		-		j		, · · · · · · · · · · · · · · · · · · ·
<del></del>	Al Gelhaf	<del></del>	<u>:</u>		<del> </del>		Ì
<u>_</u> ;			<u> </u>		<u> </u>		
1	Qetat Al Ash	eri	!		.		İ
STING WATER SUPPLY SCHEME PANEL							
<u>ltem</u>	<u> </u>			Description			
Functioning	Functional		<u> </u>			<u> </u>	علم د
Components of Existing Water Supply Scheme	Comp	onent	Specif	ication	Condition	Year	Fund
	Pump for De	ep Well	Vertical			1995	GAREW
	Engine for D	eep Well	- I	IVECO		1995	GAREW
· · · · — — — — — — — — — — — — — — — —		for Deep We	RC		:	1995	GAREW
	Pump for Bo		Horizontal				GAREW
	Engine for B		, ionzontai	IVECO			GAREW
<del></del>	Pump House		RC		!		GAREW
					<u> </u>		i
	Booster Tan		RC	.25m3			GAREW
<u> </u>	Distribution 1		RC		i 🗕		GAREW
	Pumping Ma		SGP			1995	GAREW
	Distribution I	Main	SGP			1995	GAREW
	Public Tapst	and	5		Not used nov	1995	GAREW
	House Conn		200 with met	ers			Village
Observations				•	·		<u> </u>
TER SOURCE PANEL	1			Description			_
Item	!	: .		Description			150 <del>-</del> 160
	: :	· · · - · · · · · · · · · · · · · · · ·		Description	<del></del>		- 150 - 160 - 150 - 150 - 150 - 150
Item [Borehole Code]	North	East		Description			
Item	1689659	431368		Description			
Item [Borehole Code] Grid (UTM)	1689659 Lat. N	431368 Lon. E		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	1689659	431368 Lon. E 44°21' 38.7'		Description			
Item [Borehole Code] Grid (UTM)	1689659 Lat. N	431368 Lon. E		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	1689659 Lat. N 15°16' 56.6" Working	431368 Lon. E 44°21' 38.7' Verfical pur		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	1689659 Lat. N 15°16' 56.6"	431368 Lon. E 44°21' 38.7' Verfical pur		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	1689659 Lat. N 15°16' 56.6" Working 2,435	431368 Lon. E 44°21' 38.7' Vertical pur m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	1689659 Lat. N 15°16' 56.6" Working 2,435	431368 Lon. E 44°21' 38.7' Vertical pur m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW	431368 Lon. E 44°21' 38.7' Vertical pum m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW	431368 Lon. E 44°21' 38.7' Vertical pum m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW	431368 Lon. E 44°21' 38.7' Vertical pum m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8	431368 Lon. E 44°21' 38.7' Vertical purn m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW	431368 Lon. E 44°21' 38.7' Vertical purn m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8	431368 Lon. E 44°21' 38.7' Vertical pum m inch		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8 148.66 280	431368 Lon. E 44°21' 38.7' Vertical pum m inch m		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Drawdown (m)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8 148.66 280 131.34	431368 Lon. E 44°21' 38.7' Vertical purm m inch m m m					
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8 148.66 280 131.34	431368 Lon. E 44°21' 38.7' Vertical purm  m inch  m m g/min		Description			
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8 148.66 280 131.34 66 0.032	431368 Lon. E 44°21' 38.7' Vertical purm  m inch  m g/min L/s/m					
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8 148.66 280 131.34 66 0.032 57.7	431368 Lon. E 44°21' 38.7' Vertical purr m inch m g/min L/s/m mS/m					
Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	1689659 Lat. N 15°16' 56.6" Working 2,435 1993 GAREW 300 8 148.66 280 131.34 66 0.032	431368 Lon. E 44°21' 38.7' Vertical purr m m inch m g/min L/s/m mS/m					

	R SUPPLY PLANNING PANEL						
No.	Item		Description	n			
	【Design Parameter】	<u>Professional and areas</u>	energia de la companya della companya della companya de la companya de la companya della company				
	No. of Villages in Total	0	<u> </u>				
	No. of Villages to be Covered	0					
	Current Population (2006)	1,068					
	Design Population (2016)	1,311					
	Design Water Supply Rate	L/c/d	0 m <sup>3</sup> /day				
[	Type of Work Required	Rehabilitation	<u></u>	<u></u>			
	Required Facilities	Component	To be Constructed by	Notes			
		Pump for Deep Welll	Donor	Replace			
		Eng./Gen. for Deep Well	Donor	Replace			
		Pump House for Deep Wo	<del></del>	<u> </u>			
[		Pump for Booster	Donor	Replace			
		Eng./Gen. for Booster	Donor	Replace			
		Pump House for Booster	ļ				
	 	Booster Tank	<u> </u>	<u> </u>			
l <u> </u>	! 	Distribution Tank	Donor	New			
l		Pumping Main	Donor/Village	Rehabilitation			
		Distribution Main	Donor/Village	Replace with larger diameter			
		Public Tapstand	Donor	New (for mosque, school and clinic on			
	i L	House Connections	Village	Additional			
	Accessibility	Good					
	Security	<u> </u>					
	Observation	<u>i</u>					
OPER/	ATION AND MAINTENANCE PANEL	· -					
No.	ltern		Description	<b>n</b>			
	No. of Village Head (Sheikh)	1					
	No. of Tribe	Problems with booster pump are observed, not working properly.					
	Observation in Current Supply Scheme	Booster pump can not be repaired by replacement of spare parts, whole replacement of pump unit is required.  Fund for booster pump replacement can not be collected, although additional fund (i.e. additional community contribution apart from normal water tariff collection) is raised.  Additional fund raising for booster pump replacement seems not to be accepted by the community members.  Water tariff is set at lowest level (at YR 50/m3) only to satisfy minimum operation cost, use refusing tariff increase to cover replacement / rehabilitation cost in the scheme operation.					
	Mode of Ownership	Handing-over document was prepared by the contractor.  Handing-over arrangement to the community was made by GARWSP (However, written document is not confirmed).					
		Water Committee is formed in 1994.					
		- L		Sheikh and the community.			
			ership is consisted of; a) D	irector (1), b) Treasure (1), and c)			
	Mode of Management Entity	Operator/watchman.  In every sub-village (4 sub-villages), one revenue collector/bill distributor/meter reader is					
	;	employed (4 persons in total).  Committee is not registered, so that legal status is not established.					
	! !	Major decision is made by the Committee, although Informative meetings are held for the community, if it seems necessary.					
		Written constitution for the Committee is prepared, defining community contribution in operation and maintenance, management and financial procedures, accounting regulations, penalties, and so forth.					
	Organizational Management	community members.	by the Committee, through	gh consultation with Sheikh and the			
		is made by Sheikh and th	rms of office for the Comn e community.	nittee members, refresh recommendation			
	: 	contract period.		ase, and the contract is not specifying the			
	Technical Operation and Maintenance		nent is not experienced, b of spare parts has been ur	ecause of limit in fund raising. ndertaken.			

:	Water Tariff Structure: YR 50/m3
	Revenue is just enough for minimum operation expenditure (fuel and personnel expense), not satisfying requirements for major replacement and rehabilitation.
	Fund for major replacement and rehabilitation is raised when necessity is recognized through additional community contribution.
	After meter reading, bills are distributed, and revenue is collected at the house of revenue collectors.
	Water is provided free for the poorest.
Financial Management and Transparency	No bank account had been opened.
,	Auditing Committee was formed to check the scheme account.
	There was no auditing system on the scheme account.
	Income in average: YR 50,000/month
!	Expenditure in average: YR 45,000/month
	Expenditure Break down: YR 42,000   Fuel   YR 12,000   Personnel Expense (for only Operator/Watchman)
	Other Committee members except Operator/Watchman and revenue collector/bill
	distributor/meter reader are not get paid.
Statute Idea Involvement / Decreasibility Chari	No training had been provided by stakeholders.
Stakeholder Involvement / Responsibility Shari	No assistance by District Council and GARWSP are mentioned.
Community Contribution	House connection cost is borne by the users at YR 4,000/connection.
Community Contracting-Out	Contract arrangement is made only for Operator/Watchman, while revenue collector/bill distributor/meter readers are not contracted (working on voluntary basis, appointed by the
Conflict Resolution	No conflict cases are mentioned.
Pro-Gender and Pro-Poor	
Remarks	Water tariff is set at lowest possible level only to satisfy minimum operation costs (fuel and personnel expense), the users refusing additional increase for major replacement and rehabilitation. Additional fund raising for the replacement of the booster pump seems not successful at present, observing community reluctance. Current water tariff setting shall be revised, and community awareness on importance to include future investment (rehabilitation and replacement of facilities and equipment) shall be enhanced.

lo.	DENTIFICATION PANEL	:		Description			
	Code No.	S-07				A the Lagran	<u>. 77 - 77</u>
-	Site Name	Bait Al Hadran			1	1,000	2335
			<del></del>	· · · · · · · · · · · · · · · · · · ·	, w v		
	Sub-District (Uzlat)	Canhan a De-	i Dablaal	· <del></del>		<del>., </del>	Karane
	District	Sanhan & Ban	Darilooi			<u> </u>	
	Governorate	Sana'a					
	Coordinates	Latitude	Longitude				
	Cooldinates						· · <u>- · · · · · · · · · · · · · · · · ·</u>
	Coordinates (Measured Location)	1	· · · · · · · · · · · · · · · · · · ·		,		
	Annual precipitation (rainfall)	350 n	nm				<u> </u>
	Population (2006)	2,550					
	Population Forecast (2016)	3,130					1000
	No. of Village (Qariah) in Total	101100		<del></del>			1 1 1 1 1 1
	No. of Village (Qariah) to be served	+	<del></del>				
	140. Of Village (Qallall) to be served	Nam	10	Population	Household	Coordinate	(Lat / Lo
		Al Qaryah		760			(441)
	1	Al Hisn		410			
				180			
	1	Al Saradih	i	220	20		
	I	Lakmat Al Sala	an	90			
		Sha'ab Al Ein					
	Village (Qariah) in the Community	Al Aqabah		120	10		
	=	Wahaba		170			<u> </u>
	<u>-</u>	Qarfan		161	16		
	-	Ardh Al Haid		164			
	:	Al Swayda		70		——	<u>!</u>
	<u> </u>	Al Maqate'e		45	5		<u>.                                    </u>
	<u> </u>	Al Zuqaq	<u> </u>	160	21		:
IST	ING WATER SUPPLY SCHEME PANEL						
	ltem			Description		- 2021	
	Functioning	No existing			,		
	Components of Existing Water Supply Scheme	Compo	nent	Specification	Condition	Year	Fund
		Pump for Deep					
	:	Eng./Gen. for	Deep Well				
	i	Pump House f	or Deep We				
		Pump for Boos	ster				
		Eng./Gen. for					
	!	Pump House f	or Booster				
	<u> </u>			<del></del>			.,
		Booster Tank			:		
		Booster Tank	ınk :				
		Distribution Ta					
		Distribution Ta Pumping Main					
		Distribution Ta Pumping Main Distribution Ma	ain				
		Distribution Ta Pumping Main Distribution Ma Public Tapstar	ain ain				
		Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain nd ction				
		Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain nd ction	oles, but their water lev	els are lowerin	ng and yields	are
	Observations	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain nd ction	oles, but their water lev	els are lowerin	ng and yields	are
		Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain nd ction	oles, but their water lev	els are lowerin	ng and yields	are
	R SOURCE PANEL	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain nd ction		els are lowerin	ng and yields	are
	R SOURCE PANEL	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain nd ction	oles, but their water lev	els are lowerin	ng and yields	are
	R SOURCE PANEL	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec Presently usin decreasing.	ain and and and and and and and and and an		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec	ain and and and and and and and and and an		els are lowerin	ng and yields	are
	R SOURCE PANEL	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec Presently usin decreasing.	ain and and and and and and and and and an		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec Presently usin decreasing.	East 423739		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec Presently usin decreasing.  North 1685602 Lat. N	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0"	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connec Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0"	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14′ 44.0″ 4 Capped 2,374 r	East 423739 Lon. E		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP	East 423739 Lon. E 44°17′ 23″.6		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r  2005 GARWSP 410 r	East 423739 Lon. E 44°17' 23".6		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r  2005 GARWSP 410 r	East 423739 Lon. E 44°17′ 23″.6		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii	East 423739 Lon. E 44°17′ 23″.6		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii	East 423739 Lon. E 44°17' 23".6		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r  2005 GARWSP 410 r 8 ii 193.2 r 197.1 r	East 423739 Lon. E 44°17' 23".6		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii 193.2 r 197.1 r 3.9 r	East 423739 Lon. E 44°17' 23".6  m nch	Description	els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 in 193.2 r 197.1 r 3.9 r 51 c	East 423739 Lon. E 44°17′ 23″.6  m nch		els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 in 193.2 r 197.1 r 3.9 r 51 g 0.821 L	East 423739 Lon. E 44°17′ 23″.6 m m nch m nch m nch m nch losses	Description	els are lowerin	ng and yields	are
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii 193.2 r 197.1 r 3.9 r 51 c 0.821 L 38.5 r	East 423739 Lon. E 44°17′ 23″.6 m m nch m nch m nch m nch losses	Description	els are lowerin		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii 193.2 r 197.1 r 3.9 r 51 c 0.821 L 38.5 r 8.54	East 423739 Lon. E 44°17′ 23″.6 m m nch m nch m nch m nch losses	Description	els are lowerin	ng and yields	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii 193.2 r 197.1 r 3.9 r 51 c 0.821 L 38.5 r	East 423739 Lon. E 44°17′ 23″.6 m m nch m nch m nch m nch losses	Description	els are lowerin		
VATE Io.	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Ta Pumping Main Distribution Ma Public Tapstar House Connect Presently usin decreasing.  North 1685602 Lat. N 15°14' 44.0" 4 Capped 2,374 r 2005 GARWSP 410 r 8 ii 193.2 r 197.1 r 3.9 r 51 c 0.821 L 38.5 r	East 423739 Lon. E 44°17′ 23″.6 m m nch m nch m nch m nch losses	Description	els are lowerin		

WAT	ER SUPPLY PLANNING PANEL			
No.	ltem		Description	1
	[Design Parameter]			
	No. of Villages in Total	0		
	No. of Villages to be Covered	0		
	Current Population (2006)	2,550		
	Design Population (2016)	3,130		
	Design Water Supply Rate	40 L/c/d	125 m <sup>3</sup> /day	
	Type of Work Required	New construction		
	Required Facilities	Component	To be Constructed by	Notes
		Pump for Deep Well	Donor	New
		Eng./Gen. for Deep Well	Donor	New
		Pump House for Deep W	e Donor/Village	New
		Pump for Booster	1	
		Eng./Gen. for Booster		
		Pump House for Booster		
		Booster Tank		:
		Distribution Tank	Donor	New
		Pumping Main	Donor	New
		Distribution Main	Donor	New
—		Public Tapstand	Donor	New (for mosque, school and clinic on
	<u></u>	House Connections	Village	New
	Accessibility	Good, near paved road	· · · · · · · · · · · · · · · · · · ·	
	Security			
	Observation		<del></del> . · · <del></del>	
OPE	RATION AND MAINTENANCE PANEL			
No.	ltem		Description	1
	No. of Village Head (Sheikh)			
	No. of Tribe			
	Observation in Current Supply Scheme			
	Mode of Ownership			
	Mode of Management Entity			
	Organizational Management			
	Technical Operation and Maintenance		- !	
	Financial Management and Transparency		:	
	Stakeholder Involvement / Responsibility Sha	ring		
	Community Contribution			
	Community Contracting-Out			
	Conflict Resolution		1	•
	Pro-Gender and Pro-Poor			
	Remarks		1	

No.	IDENTIFICATION PANEL							
NO.	Item				Description			
	Code No.	S-08				1.		
	Site Name	Dajah & Sar	fah					
	Sub-District (Uzlat)							
	District	Sanhan & B	ani Bahlool				<del></del>	
	Governorate	Sana'a						
	<u> </u>	Latitude	Longitude	1				
	- Coordinates	Latitude	Longitude				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Coordinates (Measured Location)	.	4					
	Annual precipitation (rainfall)	- 1	) mm			<u> -                                   </u>		
	Population (2006)	2,647						Tak Market
	Population Forecast(2016)	3,249		:				
	No. of Village (Qariah) in Total	2						
	No. of Village (Qariah) to be served	2	<u> </u>	7	TV	7 (5.4)		gr 1 1 ger
			ame	To Be Served	Population	Household	Coordinate	(Lat / Lon)
	-	Dajah						(
	─Village (Qariah) in the Community	Sarfah			<u> </u>	<u> </u>		
	· <del>-</del>	Jarian				i i	<u> </u>	
	i	I			l	l		
EXIS.	TING WATER SUPPLY SCHEME PANEL							
No.	Item				Description			
	Functioning	No existing						
-	Components of Existing Water Supply School		ponent	Specif	ication	Condition	Үеаг	Fund
	Components of Existing Water Supply Cont	Pump for De		; <b>OPOO</b>		Condition		Tunu
	<u> </u>					:		
	}		or Deep Well			· : · · · · · · · · · · · · · · · · · ·		
		Pump House	e for Deep We	e i		i I		
		Pump for Bo	oster	!		i		
		Eng./Gen. fo	or Booster					
	<del>                                     </del>	- I	e for Booster		-	<u>                                       </u>		
		Booster Tan		· .			i	
	: 					!	!	
	· · · · · · · · · · · · · · · · · · ·	Distribution 1		<u> </u>		! •		
	į	Pumping Ma	iin					
		Distribution I	Main					
		— <u> </u>	and					
	l l	Public Labst						
		Public Tapst	ection			 		
		House Conn		ļ				
	Observations	House Conn Presently us	ing water fron	n private borel				ter from
	Observations	House Conn Presently us	ing water fron	n private borel ker is not avai				ter from
WATE	Observations ER SOURCE PANEL	House Conn Presently us	ing water fron					ter from
	1	House Conn Presently us	ing water fron					ter from
WATE No.	ER SOURCE PANEL	House Conn Presently us	ing water fron		lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]	House Conn Presently us tanker (YR2	ing water fror 50/m³). If tan		lable, buy fro			ter from
	ER SOURCE PANEL	House Conn Presently us tanker (YR2)  North	ing water fror 50/m³). If tan East		lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]	House Conn Presently us tanker (YR2)  North 1697722	ing water fror 50/m <sup>3</sup> ). If tan East 438126		lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]	House Conn Presently us tanker (YR2:  North 1697722 Lat. N	ing water fror 50/m <sup>3</sup> ). If tan East 438126 Lon. E	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	North 1697722 Lat. N 15°21' 20.4"	ing water fror 50/m <sup>3</sup> ). If tan East 438126 Lon. E	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	North 1697722 Lat. N 15°21' 20.4"	East 438126 Lon. E	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	North 1697722 Lat. N 15°21' 20.4"	East 438126 Lon. E	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	North 1697722 Lat. N 15°21' 20.4"	East 438126 Lon. E	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	North 1697722 Lat. N 15°21' 20.4" Capped 2,567	East 438126 Lon. E 44°25' 25.3"	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	North 1697722 Lat. N 15°21' 20.4" Capped 2,567	East 438126 Lon. E 44°25' 25.3"	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	North 1697722 Lat. N 15°21' 20.4" Capped 2,567	East 438126 Lon. E 44°25' 25.3"	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672	East 438126 Lon. E 44°25' 25.3"	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672	East 438126 Lon. E 44°25' 25.3"	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672	East 438126 Lon. E 44°25' 25.3" m	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567  2006 GARWSP 672 10	East 438126 Lon. E 44°25' 25.3" m inch	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672 10 468.33	East 438126 Lon. E 44°25' 25.3" m inch m	ker is not avai	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672 10 468.33 620 151.67	East 438126 Lon. E 44°25' 25.3" m inch m m	ker is not ava	Description			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672 10 468.33 620 151.67	East 438126 Lon. E 44°25' 25.3" m m inch m m g/min	ker is not ava	lable, buy fro			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672 10 468.33 620 151.67 150 0.062	East 438126 Lon. E 44°25' 25.3"  m  inch  m m g/min L/s/m	ker is not ava	Description			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567 2006 GARWSP 672 10 468.33 620 151.67 150 0.062 143.9	East 438126 Lon. E 44°25' 25.3"  m  m inch  m g/min L/s/m mS/m	ker is not ava	Description			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	North 1697722 Lat. N 15°21' 20.4" Capped 2,567  2006 GARWSP 672 10  468.33 620 151.67 150 0.062 143.9 8.69	East 438126 Lon. E 44°25' 25.3"  m inch  m m g/min L/s/m mS/m	ker is not ava	Description			ter from
	ER SOURCE PANEL  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1697722 Lat. N 15°21' 20.4" Capped 2,567  2006 GARWSP 672 10  468.33 620 151.67 150 0.062 143.9 8.69 48.5	East 438126 Lon. E 44°25' 25.3"  m inch  m m g/min L/s/m mS/m	ker is not avail	Description			ter from

WAT	ER SUPPLY PLANNING PANEL							
No.	Item	Description						
	[Design Parameter]		· .					
	No. of Villages in Total	2						
	No. of Villages to be Covered	. 2		W.A.				
	Current Population (2006)	2,647						
	Design Population (2016)	3,249						
	Design Water Supply Rate	L/c/d	m³/day					
	Type of Work Required	New construction						
	Required Facilities		To be Constructed by	Notes				
	<u> </u>	Pump for Deep Well	Donor	New				
-		Eng./Gen. for Deep Well	Donor	New				
		Pump House for Deep W	e Donor/Village	New				
		Pump for Booster	Donor	New x 2				
	· · · · · · · · · · · · · · · · · · ·	Eng./Gen. for Booster	Donor	New				
		Pump House for Booster	Donor/Village	New				
		Booster Tank	Donor	New				
		Distribution Tank	Donor	New x 2				
i	· · · · · · · · · · · · · · · · · · ·	Pumping Main	Donor	New x 2 New x 2 New (for mosque, school and clinic or				
		Distribution Main	Donor					
		Public Tapstand	Donor					
		House Connections	Village	New				
	Accessibility	Good, along paved road.	Access to end of Dajah, t	hrough wadi.				
	Security	Slight problem at check p	oint					
	Observation							
OPE	RATION AND MAINTENANCE PANEL							
No.	Item	!	Description	n				
	No. of Village Head (Sheikh)	. !						
	No. of Tribe							
	Observation in Current Supply Scheme		T !					
·	Mode of Ownership							
	Mode of Management Entity							
	Organizational Management							
	Technical Operation and Maintenance							
1	Financial Management and Transparency		:					
	Stakeholder Involvement / Responsibility Sha	uring						
	Community Contribution	-		.,,				
	Community Contracting-Out	<u> </u>						
<u> </u>	Conflict Resolution							
	Pro-Gender and Pro-Poor	<del></del>						
	Remarks		<u> </u>					

No.	DENTIFICATION PANEL						
	<u>Item</u>	Description					
	Code No.	S-09	<u> </u>				
	Site Name	Ruhm					
	Sub-District (Uzlat)						
	District	Sanhan & B	ani Bahlool				
	Governorate	Sana'a					
		Latitude	Longitude			er ingefassen	
	Coordinates						
	Coordinates (Measured Location)	İ	1	<u> </u>	<u> </u>		<u></u> .
	Annual precipitation (rainfall)	360	) mm			Tariff Live	La de Milana
	Population (2006)	4,567	7 11011		<del></del>	عاريان المنافعة	
	Population Forecast (2016)	5,605				7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. A
	No. of Village (Qariah) in Total	-:	i		<del> </del>		
	No. of Village (Qariah) to be served	2		•		<del>- 1</del>	
	No. or village (Gariair) to be served	·	<u> </u>		.,		<u> </u>
		4- and a second of	ame	Population	Household	Coordina	te (Lat / Lon)
	Village (Qariah) in the Community	Ruhm Al Oly		2,373			<u> </u>
		Ruhm Al Su	fla	2,194	276		
EXIST	ING WATER SUPPLY SCHEME PANEL						
No.	Item			Description	l		
	Functioning	No existing			1		
	Components of Existing Water Supply Schen	ne Com	ponent	Specification	Condition	Year	Fund
		Pump for De	ep Well				:
			or Deep Well		- u		
			e for Deep We				
		Pump for Bo			<del>:</del>		·   · · ·
		Eng./Gen. fo		· · · · · · · · · · · · · · · · · · ·	<del> </del>		_
		Pump House					+
	÷	Booster Tan					
	:	-		<u> </u>	· - ·		_
		Distribution			<u> </u>		-
		Pumping Ma		į	i		
		Distribution Main			- ···		
		Public Tapst	land				
			land				
	Ohoomations	Public Tapst House Conn	and ection	peri-urban, so need to con	nfirm future dev	/elopment p	lans.
	Observations	Public Tapst House Conn This site is c	and lection considered as p	peri-urban, so need to con			
WATE	Observations R SOURCE PANEL	Public Tapst House Conn This site is c	and lection considered as p				
	R SOURCE PANEL	Public Tapst House Conn This site is c	and lection considered as p	ls outside of village at YR	1,800/20 barre		
WATE No.	R SOURCE PANEL ltem	Public Tapst House Conn This site is c	and lection considered as p		1,800/20 barre		
	R SOURCE PANEL	Public Tapst House Conn This site is c Buy water fro	and ection onsidered as p om private wel	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL ltem	Public Tapst House Conn This site is c Buy water fro	and section sonsidered as pom private wel	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]	Public Tapst House Conn This site is c Buy water fro  North 1678864	ection considered as pom private wel East 418658	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N	ection considered as pom private wel  East 418658 Lon. E	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1"	ection considered as pom private wel East 418658	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped	East 418658 Lon. E 444°14' 34.0"	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1"	East 418658 Lon. E 444°14' 34.0"	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395	East 418658 Lon. E 44°14' 34.0"	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped	East 418658 Lon. E 44°14' 34.0"	ls outside of village at YR	1,800/20 barre		
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395	East 418658 Lon. E 44°14' 34.0"	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395	East 418658 Lon. E 44°14' 34.0"	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470	East 418658 Lon. E 44°14' 34.0"	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470	East 418658 Lon. E 44°14' 34.0"	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8	East 418658 Lon. E 44*14' 34.0"	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8	East 418658 Lon. E 44°14' 34.0"  m inch	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8  192.5 227.9	East 418658 Lon. E 44°14' 34.0"  m inch	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8  192.5 227.9 35.4	ection considered as pom private well East 418658 Lon. E 44°14' 34.0" m inch m m m	ls outside of village at YR  Description	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8  192.5 227.9 35.4 48	East 418658 Lon. E 44°14' 34.0"  m inch  m g/min	ls outside of village at YR	1,800/20 barre	el (YR566/m	
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8  192.5 227.9 35.4 48 0.085	East 418658 Lon. E 44*14' 34.0"  m inch  m g/min L/s/m	ls outside of village at YR  Description	1,800/20 barre	el (YR566/m	
No.	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8  192.5 227.9 35.4 48 0.085 38.5	East 418658 Lon. E 44"14' 34.0"  m inch  m g/min L/s/m mS/m	ls outside of village at YR  Description	1,800/20 barre	el (YR566/m	
No.	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8 192.5 227.9 35.4 48 0.085 38.5 7.94	East 418658 Lon. E 44°14' 34.0"  m inch  m g/min L/s/m mS/m	ls outside of village at YR  Description	1,800/20 barre	el (YR566/m	
No.	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Public Tapst House Conn This site is c Buy water fro  North 1678864 Lat. N 15°11' 04.1" Capped 2,395  2003 GARWSP 470 8  192.5 227.9 35.4 48 0.085 38.5	East 418658 Lon. E 44°14' 34.0"  m inch  m g/min L/s/m mS/m	ls outside of village at YR  Description	1,800/20 barre	el (YR566/m	

No. No. Cur Des Des Typ Rec Acc		New constru Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution To	L/c/d ction conent Deep Well r Deep Well e for Deep We coster r Booster for Booster k Tank in	Donor Donor	Notes New New New New New New 2 New x 2		
No. Cur Des Des Typ Rec Acc Sec	of Villages to be Covered  rrent Population (2006) sign Population (2016) sign Water Supply Rate be of Work Required quired Facilities	2 4,567 5,605 30 New constru Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution T Pumping Ma Distribution M	L/c/d ction conent Deep Well r Deep Well e for Deep We coster r Booster for Booster k Tank in	To be Constructed by Donor Donor e Donor/Village  Donor Donor	Notes New New New New		
Cur Des Des Typ Rec	rrent Population (2006) sign Population (2016) sign Water Supply Rate se of Work Required quired Facilities	4,567 5,605 30 New constru Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen fo Pump House Booster Tanl Distribution T Pumping Ma Distribution M	L/c/d ction conent Deep Well r Deep Well e for Deep We coster r Booster for Booster k Tank in	To be Constructed by Donor Donor e Donor/Village  Donor Donor	Notes New New New New		
Des Des Typ Rec	sign Population (2016) sign Water Supply Rate be of Work Required quired Facilities	5,605 30 New constru Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution T Pumping Ma Distribution M	L/c/d ction conent Deep Well r Deep Well e for Deep We coster r Booster for Booster k Tank in	To be Constructed by Donor Donor e Donor/Village Donor Donor Donor Donor	New New New New		
Des Typ Rec	sign Water Supply Rate ne of Work Required quired Facilities	New constru Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution To Pumping Ma Distribution Ma	L/c/d ction conent Deep Well r Deep Well e for Deep We coster r Booster for Booster k Tank in	To be Constructed by Donor Donor e Donor/Village Donor Donor Donor Donor	New New New New		
Rec Rec Acc Sec	e of Work Required quired Facilities	New constru Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution To	ction porient Deep Well r Deep Well for Deep Well oster r Booster for Booster k Tank in	To be Constructed by Donor Donor e Donor/Village Donor Donor Donor Donor	New New New New		
Acc	quired Facilities	Comp Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution T Pumping Ma Distribution M	ponent Deep Well r Deep Well e for Deep We oster r Booster e for Booster K Fank	Donor Donor/Village  Donor Donor Donor	New New New New		
Acc		Pumping for Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tank Distribution T Pumping Ma Distribution M	Deep Well r Deep Well e for Deep We oster r Booster e for Booster k Fank in	Donor Donor/Village  Donor Donor Donor	New New New New		
Sec		Eng./Gen. fo Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution T Pumping Ma Distribution M	r Deep Well e for Deep We oster r Booster for Booster k Fank	Donor e Donor/Village  Donor Donor	New New New x 2		
Sec		Pump House Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution T Pumping Ma Distribution M	e for Deep Wooster r Booster of for Booster k Tank	Donor Donor	New New x 2		
Sec		Pump for Bo Eng./Gen. fo Pump House Booster Tanl Distribution 1 Pumping Ma Distribution N	oster r Booster for Booster k Fank in	Donor Donor	New x 2		
Sec		Eng./Gen. fo Pump House Booster Tanl Distribution 1 Pumping Ma Distribution N	r Booster for Booster k Fank in	Donor			
Sec		Pump House Booster Tanl Distribution 1 Pumping Ma Distribution N	for Booster k Fank in	Donor			
Sec		Booster Tanl Distribution Temping Ma Distribution Ma	k Tank in	Donor			
Sec		Distribution T Pumping Ma Distribution M	Tank in	Donor	-3		
Sec		Pumping Ma Distribution M	in	Donor	-3		
Sec		Distribution N		<u> </u>	New x 2		
Sec		<u> </u>	Anin		New x 2		
Sec		D L.C. T	ианн	Donor	New x 2		
Sec		Public Tapstand [		Donor	New (for mosque, school and clinic o		
Sec		House Conn	ections	Village	New		
	essibility	!					
	curity		i.				
	servation	!					
PERATIO	N AND MAINTENANCE PANEL						
ο.	Item			Description	n		
	of Village Head (Sheikh)		1	A TOTAL OF STREET	「大学」という。 「大学」というできます。 大学とは、1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の1987年の19		
	of Tribe	<u> </u>					
Obs	servation in Current Supply Scheme	:					
	de of Ownership	I			:		
Mod	de of Management Entity						
Orga	anizational Management						
Tecl	hnical Operation and Maintenance	:					
Fina	ancial Management and Transparency						
	keholder Involvement / Responsibility Sharir	ng					
	nmunity Contribution						
Com	nmunity Contracting-Out						
Con	flict Resolution			i			
Рго-	Gender and Pro-Poor						

SITE II	DENTIFICATION PANEL				Description			
NO.	Code No.	S-10			Description			Various and
	Site Name	Tawa'ar			T	<del></del>	<u> </u>	<u>and Carried Control</u>
-	Sub-District (Uzlat)							
	District	Al Hesn						- <u>2500</u>
	Governorate	Sana'a	T Constitution				<del></del>	
	Coordinates	Latitude	Longitude	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
	Coordinates (Measured Location)			·				
	Annual precipitation (rainfall)		_mm ::	[		****		TE 21 W 1 W 1
	Population (2006)	4,593					11 4.74	1 1 1 1 1 1 1 1 1
	Population Forecast (2016)	5,637						
	No. of Village (Qariah) in Total							<u> </u>
	No. of Village (Qariah) to be served	Ne	·	Dop	dotion		Coordinate	// at / Las\
ļ	Village (Qariah) in the Community	I Ni	ime	- Pobr	ılation	Household	Coordinate	(Lat / Lon)
EXIST	NG WATER SUPPLY SCHEME PANEL							
No.	ltem				Description		-	
	Functioning						3	
	Components of Existing Water Supply Scheme	Com	ponent	Speci	fication	Condition	Year	Fund
			ep Well (Old)			<u> </u>	1994	GAREW
			r Deep Well (					GAREW
İ	<u> </u>	Pump House	for Deep We	RC	<u> </u>			GAREW
<b> </b>	<u> </u>		ep Well (New		CAPRARI	Temporary u		Private
		Engine for D	eep Well (Ne	i	i	Temporary u		Private
	· ·	Pump House	e for Deep We	Mud brick	<u> </u>		2004	Village
		Pump for Bo				ļ l		İ
		Eng./Gen. fo			!	<u> </u>		
	:	Pump House Booster Tan		<u> </u>	İ	<del> </del>	<u>-</u>	-
	<u> </u>			DO.	100 3			OADEW
		Distribution Pumping Ma		RC SGP	100m <sup>3</sup>	1		GAREW
		Distribution I		SGP	! !		1994	GAREW GAREW
		Public Tapst		SGF	<u> </u>		1994	GAREV
		House Conn		300				Village
						ste. Need to co	nfirm water o	village
	Observations		firm other wat				millim water c	quality (1 ).
WATE	R SOURCE PANEL	Need to com	iim other wat	er sources po	ssible for use	3,		
No.	Item				Description			
	[Borehole Code]	S-10/1 Old	ļ				Ştaya -	oziserio vill.
	Grid (UTM)	North	East		• • • • • • • • • • • • • • • • • • • •	1.	(3) At 1847	F. Swiger - No.
	Ond (OTM)		Í					
	Grid (Lat/Lon)	Lat. N	Lon. E					
			44°29' 18.2"	<u> </u>		<u> </u>	<u> </u>	
		Working	Submersible					·
	Elevation (m)	2,230	m	<u> </u>			<u>. 1 19 (1) 19 91 618</u>	<u> 862 - 2000 (1.62</u>
	Aquifer/Geological Description						·	
	Year of Construction	1994	<u> </u>			<u> </u>	• - No	<u> </u>
į	Fund	GAREW					<u> The Art Start</u>	
	Depth (m)	280						
	Casing Diameter (inch)		inch			· · · · · · · · · · · · · · · · · · ·		
<u>_</u>	Screen Static Water Level (G.Lm)	125.25				·		
	Dynamic Water Level (G.Lm)	135.35						
	Drawdown (m)	#VALUE!	m m				<u> </u>	<del></del>
	Discharge (g/min)		g/min	2.1	L/sec	1		
	Specific Capacity	#VALUE!		4.1	L/5 <del>0</del> C	L	and the second second	
		Translation 1	1 1 201411				1 1 2	
	FC (mS/m)				•			
	EC (mS/m) pH	112.7	mS/m			1 2 2 2		
	pH	112.7 9.45	mS/m					
		112.7	mS/m					
	pH Temperature ('C)	112.7 9.45	mS/m					
	pH Temperature ('C) Remarks [Borehole Code]	112.7 9.45 28.8	mS/m					
	pH Temperature ('C) Remarks	112.7 9.45 28.8 S-10/2 New	mS/m					
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N	mS/m East 444316 Lon. E					
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM) Grid (Lat/Lon)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N	East 444316 Lon. E 44° 28' 54.4					
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working	mS/m  East  444316  Lon. E  44° 28' 54.4'  Private vertic	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8	mS/m  East  444316  Lon. E  44° 28' 54.4'  Private vertic	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aguifer/Geological Description	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259	mS/m East 444316 Lon. E 44° 28' 54.4 Private vertic	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aguifer/Geological Description Year of Construction	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259	mS/m East 444316 Lon. E 44° 28' 54.4 Private vertic	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m) Aguifer/Geological Description Year of Construction	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP	mS/m East 444316 Lon. E 44° 28' 54.4 Privale vertic	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aguifer/Geological Description Year of Construction Fund Depth (m)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aguifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310	mS/m East 444316 Lon. E 44° 28' 54.4 Privale vertic	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diarneter (inch) Screen	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m  m inch	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aguifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertice m  m inch	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aguifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8 145.27(50) ?(120)	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertice m  m inch m	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8 145.27(50) ?(120)	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m  m inch m m	al pump				
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8 145.27(50) ?(120) ?(70) 81	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m  m inch m m g/min	al pump	L/sec			
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8 145.27(50) ?(120) ?(70) 81 ?(0.099)	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m  m inch m m g/min L/s/m	al pump	L/sec			
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8 145.27(50) ?(120) ?(70) 81 ?(0.099) 103.3	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m  m inch m m g/min L/s/m mS/m	al pump	L/sec			
	pH Temperature ('C) Remarks [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	112.7 9.45 28.8 S-10/2 New North 1664345 Lat. N 15° 03' 13.8 Working 2,259 2004 GARWSP 310 8 145.27(50) ?(120) ?(70) 81 ?(0.099)	mS/m  East 444316 Lon. E 44° 28' 54.4 Private vertic m  m inch m m g/min L/s/m mS/m	al pump	L/sec			

	R SUPPLY PLANNING PANEL		Description	
No.	Item 【Design Parameter】		Description	
	No. of Villages in Total	0	· · · · · · · · · · · · · · · · · · ·	The second state of the se
	No. of Villages to be Covered	· · o		
	Current Population (2006)	4,593		<u> Miller og åkjer av transkill</u>
	Design Population (20116)	5,637		
	Design Water Supply Rate	L/c/d	m³/day	
•	Type of Work Required	Rehabilitation	1	
	Required Facilities	Component	To be Constructed by	Notes
		Pump for Deep Well (Old)		Replace
		Eng./Gen. for Deep Well (		Replace
l		Pump House for Deep We		<u>.</u>
	<u>:</u>	Pump for Deep Well (New	Donor	Replace
	· •	Eng./Gen. for Deep Well (		Replace
		Pump House for Deep We		Rehabilitation
		Pump for Booster	Donor	New
·		Eng./Gen. for Booster	Donor Donor Glore	New
		Pump House for Booster Booster Tank	Donor/Village	New Use existing distribution tank
		Distribution Tank	Donor	New
		Pumping Main	Donor	From booster tank to main tank
		Distribution Main	Donor/Village	Replace and extensions
	!	Public Tapstand	Donor	New (for mosque, school and clinic on
		House Connections	Village	Extensions
	Accessibility		go	
	Security	Possible problem at check	points	
	Observation	+	_•	
	ATION AND MAINTENANCE PANEL			
No.	Item		Description	
	No. of Village Head (Sheikh)	2	· · · · · · · · · · · · · · · · · · ·	
	No. of Tribe	<u>1</u>		A DIMORI
				orehole constructed by GARWSP in
				point through stand pipe (tap is not
		installed). The pump unit	is rent by village Sheikh at	YR 30,000/month.
i		Water supplied from new l	porehole constructed in 20	04 at free of charge to the community
i				ater trucks) are charged at YR 500/3 m3
		water tank	(11)	and a desire, and entargod at 171 occite in
į	Observation in Current Supply Scheme		hole constructed in 2004 w	as constructed by the community,
ŀ		although it is said as temp		as sometracted by the community,
		Borehole initially construct	ed in 1994 was re-drilled 2	004 (1.5 years ago) up to 350m
i				on together with replacement of impeller
		of pump unit.	117, 11111017 0000 110 11.0 1111111	or together with replacement of impelier
			constructed in 1994 is on	erated for eight (8) hours in a day.
		Leakage from pipeline is o	hserved	orated for eight (b) hours in a day.
··	Mode of Ownership	There is no legal arrangen		ehin
	Wode of Ownership	There is no CBO for the so		эпр.
į		The supply scheme is man	naged by Sheikh with four	(4) appointed operation workers
1				operation workers are paid with
:	Mode of Management Entity	allowance at YR 20,000/m		operation workers are paid with
		In future project, the Sheik	unin/worker. h.agreed on CBO formatio	n and registration, following the
		guideline for registration u		
	Organizational Management	No constitution and legal s	tatus for the scheme man	gement is arranged
<del></del>	Organizational Management	Rorehole constructed in 19	304 was re-drilled in 2003	1.5 years ago) up to 350m (original
				r with replacement of pump impeller.
ļ	Technical Operation and Maintenance			
ĺ	•		replacement of impeller w	as borne by the scheme account and
$\rightarrow$		the Sheikh.		VD 400/0
		Tariff structure for the scho		
i				hole of 2004: Free for the community
į		YR 500/3 m3 tank for water		
į	Financial Management and Transparency		YR 100,000/month	
:		Expenditure in average:		· .
		Bank account was opened		ankrupted.
!		Currently there is no bank	account for the scheme.	
i		Financial management is a	also done by Sheikh.	<u></u>
	Stakeholder Involvement / Responsibility Sharing			
		In the scheme construction		ommunity contributed pipe
		transportation, trench digg		
				or the community contribution has not
	Community Contribution	For the future project, agre	ement and arrangement for	or the community contribution has not e transportation and laying with trench
	Community Contribution	For the future project, agre been made. However, the	ement and arrangement for	
	Community Contribution	For the future project, agre been made. However, the digging. N/A	ement and arrangement for community agreed on pipe	e transportation and laying with trench
	Community Contribution	For the future project, agre been made. However, the digging. N/A	ement and arrangement for community agreed on pipe	e transportation and laying with trench
	Community Contribution  Community Contracting-Out	For the future project, agree been made. However, the digging.  N/A There are two (2) villages to the future of th	ement and arrangement for community agreed on pip with two (2) Sheikh. Relati	e transportation and laying with trench onship with two (2) Sheikh and villages
	Community Contribution  Community Contracting-Out	For the future project, agree been made. However, the digging.  N/A There are two (2) villages are mentioned cooperative	ement and arrangement for community agreed on pip with two (2) Sheikh. Relati	e transportation and laying with trench
	Community Contribution  Community Contracting-Out  Conflict Resolution	For the future project, agree been made. However, the digging.  N/A There are two (2) villages are mentioned cooperative are observed.	ement and arrangement for community agreed on pipe 	e transportation and laying with trench onship with two (2) Sheikh and villages
	Community Contribution  Community Contracting-Out  Conflict Resolution	For the future project, agree been made. However, the digging. N/A There are two (2) villages are mentioned cooperative are observed. Any community conflict cases.	ement and arrangement for community agreed on pipe with two (2) Sheikh. Relati e, and marital arrangement ses are not mentioned.	e transportation and laying with trench onship with two (2) Sheikh and villages between and relatives in the villages
	Community Contribution  Community Contracting-Out  Conflict Resolution	For the future project, agree been made. However, the digging. N/A There are two (2) villages are mentioned cooperative are observed. Any community conflict cases.	ement and arrangement for community agreed on pipe with two (2) Sheikh. Relati e, and marital arrangement ses are not mentioned.	e transportation and laying with trench onship with two (2) Sheikh and villages

	DENTIFICATION PANEL				Deparintion		
No.	Item	S-11			Description	*, *	
	Code No.	Al Hesn-Al A	hvad		<u>-</u>		
	Site Name	AI HESH-AI A	ADyau		l	<u> </u>	· · · · · · · · · · · · · · · · ·
	Sub-District (Uzlat)	Jehana			1		
	District	Sana'a			<u> </u>		
<u></u>	Governorate		II opeitude		·		<u> 1994 - 1994 - 1994 - 1994 </u>
	Coordinates	Latitude	Longitude	·		<u> </u>	
		<u> </u>		L			<u> </u>
	Coordinates (Measured Location)	200	·	·			
	Annual precipitation (rainfall)		mm	<u> </u> -			
	Population (20 <u>06)</u>	2,372		<u> </u>	*		
	Population Forecast (2016)	2,911			·		
	No. of Village (Qariah) in Total	1	1.2				
	No. of Village (Qariah) to be served	1	1 2 2				
	Village (Qariah) in the Community		ame		Population	Household	Coordinate (Lat / Lon
	\$	Al Hesn - Al	Abyad	2372	1	307	
	ING WATER SUPPLY SCHEME PANEL						
No.	ltem				Description		<del>-</del>
	Functioning	Functional					
	Components of Existing Water Supply Scheme		ponent		fication	Condition	Year   Fund
Í		Pump for De	ep Well (Old)	Vertical	Porcelli		1986 GAREW
		Engine for D	eep Well (Old	Technodrive	IVECO		2002 Village
			e for Deep We	RC			2002 PWP
		Pump for Bo		Horizontal	Luigi Biraghi		2004 Village
		Engine for B	looster		HATZ		2002 GAREW
	· · · · · · · · · · · · · · · · · · ·		e for Booster	Rock			1980 Village
	<del></del>	Booster Tan		RC	25m <sup>3</sup>		2002 PWP
		Distribution		RC	50m <sup>3</sup>		2002 PWP
		Pumping Ma		SGP			2002 PWP
	<del></del>	Distribution		SGP			2002 PWP
		Public Tapsi					2002 1 441
		House Conn		280	·		Village
		PWP Public	Works Projec	200	!		village
	Observations		mp operated *		anatar Abrida		
WATE	R SOURCE PANEL	Borenole pu	mp operateu	12-1311/day, t	ooster 4nna	у	
					Description		
No.	Item	C 44/0 OI4			Description		
	[Borehole Code]	S-11/2 Old					
	Grid (UTM)	North	East				
	<u> </u>	—,-·,·,.	<u>-</u>				<u> </u>
	Grid (Lat/Lon)	Lat. N	Lon. E		***		
	' '		44°27' 44 9"			· · · <u></u>	
		Working	Vertical pump	D			
i	Elevation (m)	2,300	m				
	Aquifer/Geological Description	<u>.</u>					
	Year of Construction	1980				<u> </u>	3 H 184 A 2
		GAREW			•	4 2	The Charles
	Depth (m)	180					
	Casing Diameter (inch)	6	inch				
	Screen						
		?	m				
		?	m				
	Drawdown (m)	#VALUE!	m				
		?	g/min	#VALUE!	L/sec		The state of the s
í	Specific Capacity	#VALUE!	L/s/m				
:	EC (mS/m)	101.8	mS/m				
	pH	8.09					
	Temperature ('C)	31.5					
		Pumping tes	ts canceled (c	an not set eo	uipments)		
		S-11/1 New			,		
		North	East		<del></del>		<del></del>
- 1	Grid (UTM)	1679689				100	
	O-14 (1 -4/1>	Lat. N	Lon. E				
			44° 27' 49.8				
		Capped	<u>21 40.0</u>	:			
+	Elevation (m)	2,310			<del></del> -		<del></del>
	Aquifer/Geological Description	<u> </u>					<del>-</del> ,
	Year of Construction	2005	·- <del>-</del>				
		GARWSP	1 — — — — — — — — — — — — — — — —		·		
	Depth (m)	350	m				
			inch		<u> </u>	·	
	Casing Diameter (inch)		IIICI I	—		<u> </u>	<u>. 1941 </u>
	Casing Diameter (inch)						
	Casing Diameter (inch) Screen						
	Casing Diameter (inch) Screen Static Water Level (G.Lm)	154.1				· ——	
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	154.1 219.1	m	 		· — · · · · —	
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	154.1 219.1 65	m m	·			
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	154.1 219.1 65 60	m m g/min	3.8	L/sec		
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	154.1 219.1 65 60 0.058	m m g/min L/s/m	3.8	L/sec		
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	154.1 219.1 65 60 0.058 119.5	m m g/min	3.8	L/sec		
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	154.1 219.1 65 60 0.058 119.5 8.37	m m g/min L/s/m mS/m	3.8	L/sec		
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	154.1 219.1 65 60 0.058 119.5	m m g/min L/s/m mS/m	3.8	L/sec		

	R SUPPLY PLANNING PANEL	<del> </del>					
No.	Item			Description	<u> </u>		
	[Design Parameter]	1					
	No. of Villages in Total	1 1					
	No. of Villages to be Covered  Current Population (2006)	<u> </u>					
	Design Population (2006)	2,372 2,911	1				
	Design Population (2016)		L/c/d	116 m³/day			
	Type of Work Required	Partial const		110 III /uay			
	Required Facilities		ponent	To be Constructed by	Notes		
	Troquitou i domino		ep Well (New	I	New		
			r Deep Well (		New		
	· ·			Donor/Village	New		
		Pump for Bo	oster	!			
	!	Eng./Gen. fo	r Booster				
	1	Pump House	e for Booster				
		Booster Tan					
	<u> </u>	Distribution 7	Tank	Donor	New, additional tank		
	<u> </u>	Pumping Ma		Donor	New		
		Distribution N			l		
		Public Tapst			! !		
	:	House Conn	ection	Village	Extensions		
	Accessibility	· · · · · · · · · · · · · · · · · · ·					
	Security	<u> </u>					
OPER	Observation	!					
No.	ATION AND MAINTENANCE PANEL  Item	ı		Description			
NO.	No. of Village Head (Sheikh)	<u> </u>  1	Four (4) Agil	for each sub-village			
	No. of Tribe	1	7 001 (4)7 1911	Tor Gadir bab Vinago			
		. Borehole with	h numn unit w	as constructed 25 years a	ago. Until 2002 when the Public Works		
					point where the borehole is located.		
		1			for the community members for		
		domestic use, while water trucks (venders) had been charged at YR 5/tank and YR 50/tank					
	Character in Constant Constant		Os, respective				
	Observation in Current Supply Scheme				2, contributed by the community. One		
		replaced is u			ause of limited capacity for water tank		
		and borehole	_	iou by the community, boo	addo of inflitted depastry for Mater (ann		
				rationed every after 4-5 d			
		1 1		hours according to the cor			
	•			<del>-</del>	hile handing-over document was		
		prepared in F	PVP project i	n 2002.			
	Mode of Ownership				ing to register their organization under		
	<b>'</b>				s confirmed by new project (enlargemen		
				construction).			
		Constitution (	of CBO is not	prepared yet. •water-scheme manageme	ent nas been established by the		
		community e	lection, which	is consisted of; a) directo	r (1), b) treasurer/accountant (1), and c)		
		onerator (1) Reneficiary (	ommittee for	ther employe: a) operator:	(2), b) meter reader (1), and c) bill		
	1	distributor (1)		ulci cilipioys, a) operator	(2), b) meter reader (1), and c) biii		
	Mode of Management Entity			roiect was completed, the	scheme (point source service provision		
	•			e person appointed by the			
				epresentatives have been	elected/appointed as Monitoring		
		Committee m					
		1	ior CBO for th	ie scneme management (E	Beneficiary Committee) has not been		
		CBO is not re	nistered with	out having legal status.			
	Organizational Management				ciary Committee through meeting with 1		
		community re	presentative	s (Monitoring Committee).			
		Terms of office	ce for Benefic	iary Committee are not qu			
					epaired in 1997 by purchasing spare		
,	·	<del></del>		h cost YR 370,000.			
	Technical Operation and Maintenance				community, through the scheme		
				onal community contributions because here	on. aced every two (2) years, which costs		
				by the community and sch			
	<u></u>		- Pan 201110 E	., comming and bone			

		at free of charge	, while wa	nad been provided at borehole point for ater truck (venders) had been charged at 0s, respectively.
		Y	R 130	-1 m3
			R 250	-2 m3
	Current water tariff struct	ure: Y	R 500	-3 m3
		Y	R 1,000	-4 m3
			R 2,000	-5 m3
	Water tariff is doubled by introduced to control water			c meter. This tariff structure has been nortage.
Financial Management and Transparency	Water rationing has been days in each sub-village.	introduced beca	use of sh	ortage, providing water every after 4-5
	Income in average:	YR 100,000/mc	onth	
	Expenditure in average:	YR 80,000/mor		
		YR 64,000/mor		Fuel
	Expenditure breakdown:	YR 16,000/mor		Personnel Cost (salary and allowance)
	Personnel cost:	YR 13,000/month YR 3,000/month		Operator Treasurer
}	Meter readers work in vo	Meter readers work in voluntary.		110000101
			ear to 15	community representatives (Monitoring
	Committee).			
	Bank account for the sch			
Stakeholder Involvement / Responsibility Shari				
i	In the first investment in 2			
!				mmunity contributed pumping unit and
Community Contribution				ion, pipe transportation, and trench
•	digging and laying has no			
				to contribute in pump house
		rangement for re	sponsibili	ty sharing is not made with GARWSP.
Community Contracting-Out	N/A	·		
Conflict Resolution	Any conflict cases are no	t mentioned		
Pro-Gender and Pro-Poor	N/A			A DIMOD : I I I I I I I I I I I I I I I I I I
Remarks				ARWSP is belong to the Beneficiary er with written agreement.
Nonana	Land for the existing bore government under Sheikh		public la	nd, so that the ownership is belong to the

	DENTIFICATION PANEL				Description			
<u>No.</u>	Ltem Code No.	S-12	- r · · · · · · ·		Description		** : : : :	
	Site Name	Mahdah						টানটা বিভাৰ কৰা <del>চলচ্চিত্ৰক</del>
<b> </b>	Sub-District (Uzlat)				L			<u> </u>
	District	Jehana				· · · · · · · · · · · · · · · · · · ·		at 1 Marey
	Governorate	Sana'a					100	
	Coordinates	Latitude	Longitude			· .		
	<u> </u>	<u></u>				•		
	Coordinates (Measured Location)							
	Annual precipitation (rainfall)		) mm					
	Population (2006)		erim Report)	!				
	Population Forecast (2016)	241  1						
	No. of Village (Qariah) in Total	1						
l ——	No. of Village (Qariah) to be served	N-	ame	To Be Served	Dopulation	Household	Coordinat	e (Lat / Lon)
	-¡Village (Qariah) in the Community	Mahdah	anie	160		21		E (Lat / Lon)
EXIST	ING WATER SUPPLY SCHEME PANEL	Manadi		: 100		21		•
No.	Item				Description			
	Functioning	Non-function	nal					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Components of Existing Water Supply Scheme		ponent	Specif	ication	Condition	Year	Fund
		Pump for De	ep Well (Old)	, .		Dropped in w	1985	GAREW
			Deep Well (Old			Useless		
l" .			e for Deep We			Useless	1985	GAREW
	i	Pump for Bo		1		i		
	<u>i</u>	Eng./Gen. fo	or Booster	İ				İ
			e for Booster	<u> </u>		!		!
		Booster Tan			3	-		1040514
	·	Distribution		RC	25m³	Cracked		GAREW
		Pumping Ma Distribution		SGP SGP		<del> </del>		GAREW
		Public Taps		One only		<u>:</u>		GAREW
	<u> </u>	House Conr		One only		<del></del>	1900	GARLIV
i	<u>:</u>			to 1990 when	water level l	owered, and p	ump was dro	opped inside
	Observations	of borehole.				p	amp mas are	Abboa wisias
WATE	R SOURCE PANEL							
No.	Item				Description			
	[Borehole Code]	Old	Ţ		· · · · · · · · · · · · · · · · · · ·	er er er er er er	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Grid (UTM)	North	East				450	
	- Cind (C 1NI)	! !		7	·		<u> </u>	
	Grid (Lat/Lon)	Lat. N	Lon. E	A CONTRACT		*		8.40 M
		15°09' 07"			· · · · · · · · · · · · · · · · · · ·			
				dropped inside	e borehole wi	hen water leve	llowered	
	Elevation (m)	2,304	m		•			
	Aquifer/Geological Description Year of Construction	1985	i				1 11 No. 10 No.	
		GAREW	<u> </u>		بالمعاث سست المشاد			بالمناسسة المفاقي
	Depth (m)	GAILW	m					<u> 19 ya yeseli 1961.</u> Kitangan dan 1981
	Casing Diameter (inch)		inch		•	· · · ·		
	Screen		mon	<u> </u>		<u> </u>		<u> </u>
	Static Water Level (G.Lm)		m					
	Dynamic Water Level (G.Lm)		m	<del></del>				
	Drawdown (m)	0	m		· · · <del></del>			
	Discharge (g/min)		g/min	0.0	L/sec	1	77 - 5	Company (No. 1711)
·	Specific Capacity	#DIV/0!	L/s/m				1000	
	EC (mS/m)	•	mS/m	<u>L</u> <u></u>			e gir Birmani	25 3 C C C C
	pH	·	1					
	Temperature ('C)		j	<u> </u>				
	Remarks	0.40 N				<del></del>	- <del></del>	
	[Borehole Code]	S-12 New North	East	· · · · · · · · · · · · · · · · · · ·	·		<u> </u>	in the second of
	Grid (UTM)	1674966	443218				in the	
		Lat. N	Lon. E			<del>- 1</del>	<del></del>	
	Grid (Lat/Lon)	15°09' 00"	44°28' 17"					
	Present Condition (Pump Type)	Capped	11.20 11		· · · · · ·	<del>-</del>	<u> </u>	'- <u> </u>
	Elevation (m)	2,234	m	r ·		2		· · · <del>· j · · · · ·</del>
	Aquifer/Geological Description	· · · · · · · · · · · · · · · · · · ·					i	
	Year of Construction	2005	!				F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W v
	Fund	GARWSP					1 , 44	
	Depth (m)	350						
	Casing Diameter (inch)	8	inch					The state of the state of
	Screen							
	Static Water Level (G.Lm)	150				···	<del></del>	
	Dynamic Water Level (G.Lm) Drawdown (m)	270 120						
	Discharge (g/min)				L/sec	<del></del>		
	Specific Capacity		g/min L/s/m	0.0	L/Sec	J	- A	··
	EC (mS/m)	U.U4Z	mS/m					<del></del>
:	PH i			<u> </u>		······································		
	Temperature ('C)				<u> </u>	<del></del>		
	Remarks					<del></del>		

	R SUPPLY PLANNING PANEL		Di-#2						
No.	ltem		Description	n					
	[Design Parameter]	:							
	No. of Villages in Total	1		<del></del>					
	No. of Villages to be Covered	1							
	Current Population (2006)	160(196: Interim Report)							
	Design Population (2016)	241 L/c/d	3,						
	Design Water Supply Rate	New construction	m³/day	<u> </u>					
	Type of Work Required	Component	To be Constructed by	Notes					
	Required Facilities	Pump for Deep Well (New		Notes					
·	<u> </u>			New					
	<u> </u>	Eng./Gen. for Deep Well ( Pump House for Deep We		New					
	<u> </u>	Pump for Booster	3 Donot Village	1164					
		Eng./Gen. for Booster	<u> </u>						
		Pump House for Booster							
		Booster Tank							
		Distribution Tank	Donor	New					
		Pumping Main	Donor	New					
		Distribution Main	Donor	New					
	1	Public Tapstand House Connections	Donor	New (for mosque, school and clinic on					
	Accessibility	House Connections	Village	New					
	Security								
		Consider pipeline extension	on to school (mutually use	d by surrounding villages) located in					
	Observation	outskirt of village.	on to concor (maturity asc	Januarianing Finiagoof Ioodica III					
OPER	ATION AND MAINTENANCE PANEL	, = 2151 51 villago.							
No.	ltem		Description	1					
	No. of Village Head (Sheikh)	1 One (1) Aqil	·						
	No. of Tribe	1		<u> </u>					
		There has been no house							
		Pumping unit and generat	or for borehole had been	in good operation for eight months after					
				ber that the generator installed was					
	01 (1.10 1.01	another second hand one	6	second hand. After eight months, the generator had not functioned, and replaced with					
	Observation in Current Supply Scheme	another second hand one by village Sheikh. However, problem had not resolved.  During replacing generator, pump unit was fallen down to the borehole.							
	Observation in Current Supply Scheme	During replacing generato	r, pump unit was fallen do	wn to the borehole.					
	Observation in Current Supply Scheme	During replacing generato GARWSP tried to fish up t	r, pump unit was fallen do						
	Observation in Current Supply Scheme	During replacing generato GARWSP tried to fish up the However, it was failed.	r, pump unit was fallen do the pump unit fallen down	own to the borehole. to the borehole twice in 2002 and 2003.					
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	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a	the pump unit was fallen do the pump unit fallen down hrough a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint o form new CBO in future inistry of Social Affairs. by-law, and legal status was done by the community R 100/household/month and only for fuel cost and in managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca abandoned borehole is loca	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  al ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s personnel cost for the operator.  lanced during the scheme operation.  entation of the project in mid 80s.  munity contribution in future project, aportation and laying.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  ere resulting pump unit falling down to the cated in public land, so the land					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution  Pro-Gender and Pro-Poor	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of	the pump unit was fallen do the pump unit fallen down hrough a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint o form new CBO in future sinistry of Social Affairs. by-law, and legal status was done by the community R 100/household/month and only for fuel cost and in managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  al ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  munity contribution in future project, aportation and laying.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of Land for new borehole cor	the pump unit was fallen do the pump unit fallen down through a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint of form new CBO in future inistry of Social Affairs. by-law, and legal status was done by the community R 100/household/month sed only for fuel cost and in managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh astructed by GARWSP is a	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  all ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  nmunity contribution in future project, portation and laying.  eikh is observed.  em was caused by generator. Generator ce, resulting pump unit falling down to the cated in public land, so the land control.  also located in public land.					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution  Pro-Gender and Pro-Poor	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of Land for new borehole cor Existing water sources ava-	ar, pump unit was fallen do the pump unit fallen down through a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint of form new CBO in future inistry of Social Affairs. by-law, and legal status was done by the community for 100/household/month sed only for fuel cost and i managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh astructed by GARWSP is a allable for the community	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  all ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  nmunity contribution in future project, portation and laying.  eikh is observed.  em was caused by generator. Generator ce, resulting pump unit falling down to the cated in public land, so the land control.  also located in public land.  are; 1) hand dug well used for domestic					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution  Pro-Gender and Pro-Poor	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of Land for new borehole cor Existing water sources ava purpose not for drinking (fe	ar, pump unit was fallen do the pump unit fallen down hrough a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint o form new CBO in future inistry of Social Affairs. by-law, and legal status was done by the community R 100/household/month sed only for fuel cost and i managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh estructed by GARWSP is a allable for the community sew uses for drinking purpo-	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  all ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  nomunity contribution in future project, aportation and laying.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  each resulting pump unit falling down to the sated in public land, so the land control.  also located in public land.  are; 1) hand dug well used for domestic ose), 2) purchasing water at city center					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution  Pro-Gender and Pro-Poor	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of Land for new borehole cor Existing water sources ava purpose not for drinking (fe by water truck, which costs	ar, pump unit was fallen do the pump unit fallen down hrough a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint o form new CBO in future inistry of Social Affairs. by-law, and legal status was done by the community R 100/household/month sed only for fuel cost and i managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh estructed by GARWSP is a allable for the community sew uses for drinking purpo-	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  all ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  nmunity contribution in future project, portation and laying.  eikh is observed.  em was caused by generator. Generator ce, resulting pump unit falling down to the cated in public land, so the land control.  also located in public land.  are; 1) hand dug well used for domestic					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution  Pro-Gender and Pro-Poor	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of Land for new borehole cor Existing water sources ava purpose not for drinking (fe by water truck, which costs currently.	ar, pump unit was fallen do the pump unit fallen down hrough a public stand loca was undertaken by the S at made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint o form new CBO in future sinistry of Social Affairs. by-law, and legal status was done by the community and end only for fuel cost and in managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con bers agreed on pipe trans are is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh nistructed by GARWSP is a ailable for the community ew uses for drinking purpos s YR 2,000/3 m3 tank, and	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  all ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  munity contribution in future project, aportation and laying.  eikh is observed.  em was caused by generator. Generator ce, resulting pump unit falling down to the cated in public land, so the land control.  also located in public land.  are; 1) hand dug well used for domestic ose), 2) purchasing water at city center d 3) private small dam, which is dry					
	Mode of Ownership  Mode of Management Entity  Organizational Management Technical Operation and Maintenance  Financial Management and Transparency  Stakeholder Involvement / Responsibility Sharin  Community Contribution  Community Contracting-Out Conflict Resolution  Pro-Gender and Pro-Poor	During replacing generato GARWSP tried to fish up of However, it was failed. Water was supplied only the connection to the mosque There was no arrangement There was no CBO arrang The scheme had been ma The community is willing to CBO registration under Mi There was no constitution, Replacement of generator Tariff structure: Water bill collected was us The scheme account was It is mentioned that income N/A There was no community of There is no agreement ma while the community mem N/A No community conflict cas N/A Typical traditional manage It is questionable whether was replaced possibly with borehole. Land for the existing and a ownership belongs to the of Land for new borehole cor Existing water sources ava purpose not for drinking (fo by water truck, which costs currently. Electricity is available in the	ir, pump unit was fallen do the pump unit fallen down hrough a public stand loca was undertaken by the S it made in mid 80s for legi gement in mid 80s. anaged by Sheikh, appoint of form new CBO in future inistry of Social Affairs. by-law, and legal status if was done by the community for 100/household/month and only for fuel cost and if managed by Sheikh. e and expenditure was ba contribution in the impleme ade with GARWSP for con ibers agreed on pipe trans the is mentioned ement style headed by She or not the pumping problem out any technical guidance abandoned borehole is loca government under Sheikh instructed by GARWSP is a allable for the community are uses for drinking purpos s YR 2,000/3 m3 tank, and the village. Average house	to the borehole.  to the borehole twice in 2002 and 2003.  ated in center of village (removed). Pipe heikh.  all ownership.  ting one (1) scheme operator.  project, following guideline prepared for for the scheme management.  nity, of which cost was borne by village in (fixed tariff) in 80s  personnel cost for the operator.  Ilanced during the scheme operation.  entation of the project in mid 80s.  nomunity contribution in future project, aportation and laying.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  eikh is observed.  each resulting pump unit falling down to the sated in public land, so the land control.  also located in public land.  are; 1) hand dug well used for domestic ose), 2) purchasing water at city center					

o.	IDENTIFICATION PANEL			5			
Ų.	Item			Description	1	<del> </del>	
	Code No.	S-13	<u> </u>				
	Site Name	Al Ga'ra					
	Sub-District (Uzlat)						
	District	Alteyal				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74/10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Governorate	Sana'a				7.	
						1.75 -	
	Coordinates	Latitude	Longitude				<u> </u>
					<u> </u>	and the second	
	Coordinates (Measured Location)						
	Annual precipitation (rainfall)	310	) mm				
	Population (2006)	2,047					
	Population Forecast (2016)	2,512					1 4 1 May 1
	No. of Village (Qariah) in Total	- •		Area - a			
	No. of Village (Qariah) to be served		<u> </u>	······································			
	ino. or village (Qarian) to be served	l NI.	<u> </u>		-1-2		
	Village (Qariah) in the Community	<u> </u>	ame	Population	Household	Coordinat	e (Lat / Lon
	!	Al Ga'ra		ļ			
XIST	ING WATER SUPPLY SCHEME PANEL						
0.	Item	i !		Description	 1		
	Functioning	No existing			<del></del> ~-	14 4 14 No. 12 12	
	Components of Existing Water Supply Scheme	<u></u>	nonont	Specification	Condition	V	<del></del>
	Components of Existing water Supply Scheme		ponent	Specification	Condition	Year	Fund
		Pump for De	<u> </u>				
	<u>                                     </u>	Eng./Gen. fo	or Deep Well				İ
		Pump House	e for Deep We	!			!
		Pump for Bo	oster				
		Eng./Gen. fo			-		!
	•		e for Booster		:		!
	<u> </u>						ļ
		Booster Tan					<u> </u>
		Distribution	Tank		<u> </u>		
		Pumping Ma	in		1		1
	i i				1		İ
		Distribution I			<u>:</u>		1
		Distribution 1	Main				
	3	Distribution I Public Tapst	Main and				
	3	Distribution I Public Tapst House Conn	Main and ection	/R1 000/m3 If tanker not	available buy	from Sana'a	at
		Distribution I Public Tapst House Conn Buy water fro	Main and ection om tanker at Y	/Ř1,000/m3. If tanker not	available, buy	from Sana'a	at
	Observations	Distribution It Public Tapst House Conn Buy water fro YR3,000/m3	Main and ection om tanker at Y				at
ATI5	Observations	Distribution It Public Tapst House Conn Buy water fro YR3,000/m3	Main and ection om tanker at Y	R1,000/m3. If tanker not			at
	Observations R SOURCE PANEL	Distribution It Public Tapst House Conn Buy water fro YR3,000/m3	Main and ection om tanker at Y	nd dug wells is free, carry	by hand or dor		at
<b>ATI</b> =	Observations R SOURCE PANEL Item	Distribution It Public Tapst House Conn Buy water fro YR3,000/m3	Main and ection om tanker at Y		by hand or dor		at
	Observations R SOURCE PANEL	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p	Main and ection om tanker at Y orivate wells a	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]	Distribution It Public Tapst House Conn Buy water fro YR3,000/m3	Main and ection om tanker at Y	nd dug wells is free, carry	by hand or dor		at
	Observations R SOURCE PANEL Item	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p	Main and ection om tanker at Y orivate wells a	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	Distribution In Public Tapst House Conn Buy water from public YR3,000/m3 Water from public North	Main and ection om tanker at Y crivate wells a	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p	Main and ection om tanker at Y crivate wells a East Lon. E	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9"	Main and ection om tanker at Y crivate wells a	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Distribution of Public Tapst House Conn Buy water from page 2007/m3 Water from page 2007/m3 North  Lat. N 15°19' 54.9" Capped	Main and ection om tanker at \ converte wells a  East  Lon. E  44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9"	Main and ection om tanker at \ converte wells a  East  Lon. E  44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	Distribution of Public Tapst House Conn Buy water from page 2007/m3 Water from page 2007/m3 North  Lat. N 15°19' 54.9" Capped	Main and ection om tanker at \ converte wells a  East  Lon. E  44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Distribution of Public Tapst House Conn Buy water from page 2007/m3 Water from page 2007/m3 North  Lat. N 15°19' 54.9" Capped	Main and ection om tanker at Y convate wells a East Lon. E 44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution in Public Tapst House Conn Buy water from public Tapst YR3,000/m3 Water from public North  Lat. N 15°19' 54.9" Capped 2,603	Main and ection om tanker at Y convate wells a East Lon. E 44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP	Main and ection om tanker at Y crivate wells a  East Lon. E 44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840	Main and ection om tanker at Y crivate wells a  East Lon. E 44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4	Main and ection om tanker at Y crivate wells a East Lon. E 44°27' 48.4"	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4	Main and ection om tanker at Y corivate wells a  East Lon. E 44°27' 48.4"  m inch	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520	Main and ection om tanker at \ corivate wells a  East  Lon. E  44°27' 48.4"  m  inch	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4	Main and ection om tanker at \ corivate wells a  East  Lon. E  44°27' 48.4"  m  inch	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520	Main and ection om tanker at Y crivate wells a  East Lon. E 44°27' 48.4"  m inch m	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520 600 80	Main and ection om tanker at Y crivate wells a  East  Lon. E  44°27' 48.4"  m inch  m m	nd dug wells is free, carry  Description	by hand or dor		at
	Observations  R SOURCE PANEL  Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520 600 80 150	Main and ection om tanker at \ convare wells a  East  Lon. E  44°27' 48.4"  m  inch  m  m  g/min	nd dug wells is free, carry	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520 600 80 150 0.118	Main and ection orn tanker at \ converte wells a  East  Lon. E  44°27' 48.4"  m  inch  m  g/min  L/s/m	nd dug wells is free, carry  Description	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution in Public Tapst House Conn Buy water from part of YR3,000/m3 Water from part of YR3	Main and ection om tanker at \ convare wells a  East  Lon. E  44°27' 48.4"  m  inch  m  m  g/min	nd dug wells is free, carry  Description	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520 600 80 150 0.118	Main and ection orn tanker at \ converte wells a  East  Lon. E  44°27' 48.4"  m  inch  m  g/min  L/s/m	nd dug wells is free, carry  Description	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution in Public Tapst House Conn Buy water from part of YR3,000/m3 Water from part of YR3	Main and ection orn tanker at \ converte wells a  East  Lon. E  44°27' 48.4"  m  inch  m  g/min  L/s/m	nd dug wells is free, carry  Description	by hand or dor		at
	Observations  R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	Distribution I Public Tapst House Conn Buy water fro YR3,000/m3 Water from p  North  Lat. N 15°19' 54.9" Capped 2,603  2006 GARWSP 840 14-3/4 10-3/4 520 600 80 150 0.118 80.6 8.20	Main and ection orn tanker at \ converte wells a  East  Lon. E  44°27' 48.4"  m  inch  m  g/min  L/s/m	nd dug wells is free, carry  Description	by hand or dor		at

	ER SUPPLY PLANNING PANEL Item	Description					
No.	<del></del>		Description				
	[Design Parameter]	<u> </u>					
	No. of Villages in Total	0					
	No. of Villages to be Covered						
	Current Population (2006)	2,047					
	Design Population (2016)	2,512	3				
	Design Water Supply Rate	L/c/d	m³/day				
	Type of Work Required	New construction	<del> </del>				
	Required Facilities	Component	To be Constructed by	Notes			
	·	Pump for Deep Well	Donor	New			
	<u> </u>	Eng./Gen. for Deep Well	Donor	New			
		Pump House for Deep W	<del></del>	New			
		Pump for Booster	Donor	New			
		Eng./Gen. for Booster	Donor	New			
		Pump House for Booster	Donor/Village	New			
		Booster Tank	Donor	New			
		Distribution Tank	Donor	New×2			
		Pumping Main	Donor	New			
	<u> </u>	Distribution Main	Donor	New			
	· · · · · · · · · · · · · · · · · · ·	Public Tapstand	Donor	New (for mosque, school and clinic of			
		House Connection	Village	New			
	Accessibility						
	Accessibility Security						
PER	Security						
	Security Observation		Description				
	Security Observation RATION AND MAINTENANCE PANEL		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management Technical Operation and Maintenance		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management Technical Operation and Maintenance Financial Management and Transparency		Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management Technical Operation and Maintenance Financial Management and Transparency Stakeholder Involvement / Responsibility Si	naring	Description				
PER 0.	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management Technical Operation and Maintenance Financial Management and Transparency Stakeholder Involvement / Responsibility Stakeholder / Responsibility Stakeholder / Responsibility Stakeholder / Responsibility Stakeholder / Responsibility Stakeholder	naring	Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management Technical Operation and Maintenance Financial Management and Transparency Stakeholder Involvement / Responsibility St Community Contribution Community Contracting-Out	naring	Description				
	Security Observation RATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe Observation in Current Supply Scheme Mode of Ownership Mode of Management Entity Organizational Management Technical Operation and Maintenance Financial Management and Transparency Stakeholder Involvement / Responsibility Stakeholder / Responsibility Stakeholder / Responsibility Stakeholder / Responsibility Stakeholder / Responsibility Stakeholder	naring	Description				

No.	E IDENTIFICATION PANEL							
	Item				Description	ו		
	Code No.	S-14	J. Program		p	<u>. 12. 14.</u>		
	Site Name	Al Ghail				· · · · · · · · · · · · · · · · · · ·		8. 14.11.21. 
	Sub-District (Uzlat)							
	District	Nehm						
	Governorate	Ѕапа'а		<u>.</u>		·	and the stable	
	∹ 	Latitude	Longitude	* -				
			<u> </u>	ļ	<u> </u>			
	Coordinates (Measured Location)							
	Annual precipitation (rainfall)	300	mm					
	Population (2006)	1,000						
	Population Forecast (2016)	1,227		-				
	No. of Village (Qariah) in Total						7.	Long to the
	No. of Village (Qariah) to be served						,5 Feb.	mga iyasa
	:	Na	ame	Popi	ulation	Household	Coordinate	(Lat / Lon)
		Al Ghail (Gh	ail Al Sholif)					
	Village (Qariah) in the Community	Qa'a Al Had	ad					
	<del></del>	Qa'a Ma'arf		1				
	<del>.</del> !	Beel Al Basa	al (District cen	1		*		
EXIS	STING WATER SUPPLY SCHEME PANEL		,					,
No.	Item				Description	1		
	Functioning	Non-function	nal	-		· · · · · · · · · · · · · · · · · · ·	*	
	Components of Existing Water Supply Scheme	Com	ponent	Speci	ification	Condition	Year	Fund
		Pump for De		Vertical		Broken		GAREW
	:	Engine for D			Technodrive	e Broken 1995		GAREW
			e for Deep We	Only founda				
	!	Pump for Bo			1	-		
	· · · · · · · · · · · · · · · · · · ·	Eng./Gen. fo		1	1			
			e for Booster	!	1	1		
	i	Booster Tan						
	· · · · · · · · · · · · · · · · · · ·	Distribution		l İ				
		Pumping Ma		SGP only to	: vehicle wate	er post near bor	ehole	
	! !	Distribution I		001 , 0111 <b>y</b> 10		pr post near per		
	I v							
		Public Tapst	and			· · · · · · · · · · · · · · · · · · ·		
		Public Tapst						
		House Conn	ection	on-functional	eince 1995			
	Observations	House Conn Water suppl	ection y system is no					
MAT		House Conn Water suppl	ection					
	ER SOURCE PANEL	House Conn Water suppl	ection y system is no		ctions.			
WAT	TER SOURCE PANEL  Item	House Conn Water suppl	ection y system is no					
	ER SOURCE PANEL	House Conn Water suppl About 10 pri	ection y system is no vate wells, bu		ctions.			
	TER SOURCE PANEL  Item	House Conn Water suppl About 10 pri	ection y system is no vate wells, bu East		ctions.			
	ER SOURCE PANEL  Item  [Borehole Code]	House Conn Water suppl About 10 pri North 1729866	ection y system is no vate wells, bu  East 445256		ctions.			
	Item [Borehole Code] Grid (UTM)	House Conn Water suppl About 10 pri North 1729866 Lat. N	ection y system is no vate wells, bu  East 445256 Lon. E		ctions.			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4"	ection y system is no vate wells, bu  East 445256		ctions.			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused	ection y system is no vate wells, bu  East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4"	ection y system is no vate wells, bu  East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused	ection y system is no vate wells, bu  East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused	ection y system is no vate wells, bu  East 445256 Lon. E 44°29' 21.4"		ctions.			
	ER SOURCE PANEL    Item   [Borehole Code]   Grid (UTM)   Grid (Lat/Lon)   Present Condition (Pump Type)   Elevation (m)   Aquifer/Geological Description	House Conn Water suppl About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused 2,117	ection y system is no vate wells, bu  East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	North 1729866 Lat. N 15°38' 46.4" Unused 2,117	East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185	East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185	East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diarneter (inch)  Screen	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW	East 445256 Lon. E 44°29' 21.4"		ctions.			
	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8	East 445256 Lon. E 44°29' 21.4"		ctions.			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8	East 445256 Lon. E 44°29' 21.4"  m inch		ctions.			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	House Conn Water supply About 10 pri North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8	East 445256 Lon. E 444°29' 21.4"  m inch	t onl one fund	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8 130 160 30 40	East 445256 Lon. E 44*'29' 21.4"  m inch  m g/min	t onl one fund	ctions.			
No.	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8 130 160 30 40 0.084	East 445256 Lon. E 444°29' 21.4"  m inch  m g/min L/s/m	t onl one fund	Description			
No.	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8 130 160 30 40 0.084 133.2	East 445256 Lon. E 44°29' 21.4"  m inch  m g/min L/s/m mS/m	t onl one fund	Description			
No.	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8 130 160 30 40 0.084 133.2 7.79	East  445256 Lon. E  44°29' 21.4"  m inch  m m m m m m m m m m m m m m m m m m	t onl one fund	Description			
No.	ER SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1729866 Lat. N 15°38' 46.4" Unused 2,117 1985 GAREW 185 8 130 160 30 40 0.084 133.2	East  445256 Lon. E  44°29' 21.4"  m inch  m m m m m m m m m m m m m m m m m m	t onl one fund	Description			

WATER SUPPLY PLANNING PANEL								
No. : Item		Description						
[Design Parameter]								
No. of Villages in Total	0	-						
No. of Villages to be Covered	0							
Current Population (2006)	1,000	<del></del>						
Design Population (2016)	1,227							
Design Water Supply Rate	40 L/c/d	49.08 m³/day						
Type of Work Required	New construction	-						
Required Facilities	Component	To be Constructed by	Notes					
	Pump for Deep Well	Donor	New					
	Eng./Gen. for Deep Well	Donor	New					
· <del></del>	Pump House for Deep W		New					
	Pump for Booster							
i	Eng./Gen. for Booster							
	Pump House for Booster							
	Booster Tank							
	Distribution Tank	Donor	New x 2(?)					
	Pumping Main	Donor	New					
	Distribution Main	Donor	New					
	Public Tapstand	Donor	New (for mosque, school and clinic on New					
	House Connections	Village						
Accessibility	Need to cross wadi							
Security	Route to Marib: problems	at check points						
Observation								
OPERATION AND MAINTENANCE PANEL								
No. Item	-	Description	•					
No. of Village Head (Sheikh)			막는 물리의 다른 사람들을 들어 있었다.					
No. of Tribe								
Observation in Current Supply Scheme	1		!					
Mode of Ownership								
Mode of Management Entity								
Organizational Management								
Technical Operation and Maintenance	ì							
Financial Management and Transparency								
Stakeholder Involvement / Responsibility								
Community Contribution								
Community Contracting-Out								
Conflict Resolution								
Pro-Gender and Pro-Poor								
Remarks	i							

TE IDENTIFICATION PANEL			_				
o. Item				Description	on		
Code No.	D-01	<u> </u>	A				<del></del>
Site Name	Elow Al Miki	nlaf		5		<u> </u>	
Sub-District (Uzlat)				<u> </u>		dim vetas in the land	Magning of the con-
District	Jabal Al Sha	arq			<u> </u>	<u> </u>	V-9 - 0 - 10 - 11 - 12 - 1
Governorate	Dahmar		· · · · · · · · · · · · · · · · · · ·	<del> </del>		tile, silvi i	
Coordinates	Latitude	Longitude		<u> 18 (17 km) (18 km)</u>	<u> </u>	<u> </u>	praciptivity
		<u>Ĺ</u>	<u> </u>	<u> </u>	<u> </u>		2. W. s. <u> </u>
Coordinates (Measured Location)					·		
Annual precipitation (rainfall)	<del></del>	mm		<u> </u>	<u>a militar yang bagai</u>	<u> </u>	<u> </u>
Population (2006)	926		<u> </u>		ethi ali paga et anna.	i grander i eg d	
Population (2016)	1,249						
No. of Village (Qariah) in Total				<u> </u>			
No. of Village (Qariah) to be served				<u> </u>	. <u> </u>	i Perfordistration in 1979. Laborate de la <u>Leberaria de la 1979.</u>	
	Na	ame	F	Population	Household	Coordinate	(Lat / Lon)
	Al Mahal			160	29		
Village (Qariah) in the Community	Al Ashoom			312	57		
Village (Qarian) in the Community	Magradh			184	37	14°47' 53"	43°51' 26
	Habaqah			213	46	14°47' 34"	43°50' 54
	Hagara			57	9		
KISTING WATER SUPPLY SCHEME PANEL							
o. Item				Description	on		
Functioning	Partially exis	ting					
Components of Existing Water Supply Scheme	_	onent	Sr	ecification	Condition	Year	Fund
	Pump for De			:			
	Eng./Gen. fo						
		for Deep We					· ·
	Pump for Bo	-			-		
	Eng./Gen. fo			!			
	Pump House						
	Booster Tan		RC	40m <sup>3</sup>			GARWSP
	Distribution 1		RC	50m <sup>3</sup>	<u> </u>	2005	GARWSP
	Pumping Ma						
i	Distribution L	_ine					
	Public Tapst	and					
	House Conn	ection		i			
Observations	5 mosques a	and 1 school			<del></del>		
	o mosques a	ind i school					
ATER SOURCE PANEL						_	
o. Item				Descriptio	n		
[Borehole Code]					<u></u>	51.5	
Grid (UTM)	North	East	.*				ja da ja
S.1.2 (5 1 1.1)	1636856	377116		and the Control			
Grid (Lat/Lon)	Lat. N	Lon. E		*			
<u> </u>		43°51' 28.9"					and the second of the second o
	Capped						
Elevation (m)	1,799	m					
Aquifer/Geological Description				11 443			a ku ku hiji
Year of Construction	2000				1.522		V 1 1
Year of Construction	2000 GARWSP					Contract Contract	
Year of Construction Fund Depth (m)							
Year of Construction Fund	GARWSP 273						Television (Section )
Year of Construction Fund Depth (m) Casing Diameter (Inch) Screen	GARWSP 273	m					And And And And And And And And And And
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	GARWSP 273	m inch					
Year of Construction Fund Depth (m) Casing Diameter (Inch) Screen	GARWSP 273 8	m inch					
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	GARWSP 273 8 184.13	m inch m					
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	GARWSP 273 8 184.13 185.83	m inch m		2.4 L/sec			
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	GARWSP 273 8 8 184.13 185.83 1.7 38	m inch m m m g/min		2.4 L/sec			
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	GARWSP 273 8 184.13 185.83 1.7 38 1.411	m inch  m m m g/min L/s/m		2.4 L/sec			
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	GARWSP  273 8  184.13 185.83  1.7  38  1.411 89.4	m inch m m m g/min L/s/m mS/m		2.4 L/sec			
Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	GARWSP 273 8 184.13 185.83 1.7 38 1.411	m inch m m m g/min L/s/m mS/m		2.4 L/sec			

lo.	ER SUPPLY PLANNING PANEL Item	į	Description	
10.	[Design Parameter]		Dodonpaol	
	No. of Villages in Total	0		
	No. of Villages to be Covered	0		
	Current Population (2006)	926		
	Design Population (2016)	1,249		
	Design Water Supply Rate	40 L/c/d	50 m <sup>3</sup> /day	
	Type of Work Required	New construction	30 III /day	
	Required Facilities	Component	To be Constructed by	Notes
	Trequired Facilities	Pump for Deep Well	Donor	New
	.	Eng./Gen. for Deep W		New
	1	Pump House for Deep		New
	·	Pump for Booster	Donor	New x 2
	<u>:</u>	Eng./Gen. for Booster		New x 2
	<u> </u>	Pump House for Booster		New x 2
			<del>-</del>	
	<u>i</u>	Booster Tank No.1 Booster Tank No.2	Donor GARWSP	New Already constructed
	· · · · · · · · · · · · · · · · · · ·	Distribution Tank	GARWSP	
		T .	Donor	Already constructed
	<del></del>	Pumping Main	Donor	New
	· <del> </del>	Distribution Main	Donor	New
		Public Tapstand House Connections		New (for mosque, school and clinic
	A!b.!!ir		Village	New
	Accessibility	Through unpaved, roo	ky mountain roads	<del></del>
	Security   Observation			
11-7-1	ATION AND MAINTENANCE PANEL	_		
	·	İ	Description	_
0	Item No. of Village Head (Sheikh)		Description	1
_	No. of Tribe		<del></del>	
		<u> </u>	···	
	Observation in Current Supply Scheme			
	Mode of Ownership	<u> </u>		
	Mode of Management Entity			<u> </u>
	Organizational Management	<u> </u>		
	Technical Operation and Maintenance			<u> </u>
	Financial Management and Transparency			<u> </u>
	Stakeholder Involvement / Responsibility Sha	aring		
	Community Contribution			
	Community Contracting-Out			
			1	
	Conflict Resolution Pro-Gender and Pro-Poor	i		

Village (Qariah) in the Community   Salemah   164   30	SITE	DENTIFICATION PANEL					_		
Sile Name	No.	Item				Description			
Sub-Dietrict (Uzfat)   District   Covernorate   Covernor		Code No.	D-02						
District   Coverrorate   Coordinates   Coverrorate   Coordinates   Coverrorate   Coordinates   Coo	]	Site Name	Hamal-Bait	Al Jabar					
Coordinates   Latitude   Longitude		Sub-District (Uzlat)				•			
Coordinates   Latitude   Longitude		District	!						73.18 1
Coordinaties (Measured Location)   530 mm   Population (2016)   2475   Population (2016)   2475   Population Forecast (2016)   3339   N. of Village (Carish) to be served   Ratin   1,345   406   54   44744   201   43766   14744   201   14744   201   43766   14744   201   14744   201   43766   14744   201   14744   201   43766   14744   201   14744   2		Governorate	-			i ·			
Coordinaties (Measured Location)   530 mm   Population (2016)   2475   Population (2016)   2475   Population Forecast (2016)   3339   N. of Village (Carish) to be served   Ratin   1,345   406   54   44744   201   43766   14744   201   14744   201   43766   14744   201   14744   201   43766   14744   201   14744   201   43766   14744   201   14744   2			Latitude	Longitude					
Annual precipitation (rainfall)   530 mm		Coordinates			<u> </u>	* .			
Annual precipitation (rainfall)   530 mm		Coordinates (Measured Location)	†	I	1				
Population (2008)   2476   Population Forecast (2016)   3339		1	530	mm	2.	- + .			
Population Forecast (2015)   3339   No. of Village (Carlah) to be served						•	<u> </u>		
No. of Village (Qarlah) to be served					!				
No. of Village (Qariah) to be served			0000				*		<del></del>
Name									
Bait Al Jaharr		Two. or village (garian) to be served	N	L	Pon	ulation	Household	Coordinate	(lot/lon)
Hamal		-			rop		·- - · ·	Coordinate	(Lat / Lon)
Village (Qariah) in the Community   Balt Malwoocha   57   11   14"44" 46"   43"56"   Salemah   164   30	-	i ≟ 1					4	4 40 4 41 00!!	400501501
Village (Qarish) in the Community   Salarmah   164   30		! -							
Errain   99   22   14*44*56* 43*6   34   6   6   6   6   6   6   6   6   6	ļ	; ;;	L	dna				14°44′ 46"	43°56' 19"
Alabal Mane'e   34   6       Beit Al Safa	<u> </u>	Village (Qariah) in the Community ∃					<del></del>		
Bait Al Safa   178   27		į						14°44' 58"	43°56' 16"
Rulah		! -		e	!		<del> </del>		ļ Ļ
Existing Water Supply Scheme		i	Bait Al Safa			178	27		
No.	L	!	kulah		<u> </u>	94	20		<u> </u>
Functioning	<b>EXIST</b>	ING WATER SUPPLY SCHEME PANEL							
Components of Existing Water Supply Scheme	No.	Item				Description			
Pump for Deep Well   Vertical   SIMMONS   Broken   1987   CAREW		Functioning							
Engine for Deep Well   Benz   Broken   1987   GAREW   Pump House for Deep We Rock   Cannot use   1987   GAREW   Pump House for Deep We Rock   Cannot use   1987   GAREW   Pump for Booster   Eng./Gen. for Booster   Pump House for Booster   Pump H	İ	Components of Existing Water Supply Scheme			Spec		Condition	Year	Fund
Pump House for Deep We Rock		1			Vertical	SIMMONS	Broken	1987	GAREW
Pump for Booster   Eng./Gen. for Booster   Eng./Gen. for Booster   Eng./Gen. for Booster   Eng./Gen. for Booster   Booster for Booster   Booster Tank   Distribution Tank   RC   75m3   2005   GARWS    Pumping Main   SGP   Cannot use   1987   Village   Distribution Main   Public Tapstand   House Connection   Pipe to 2 open tanks in nearby school and 1 village, and 1 vehicle water post next to pum house.   Gasoline filling station and chicken breeding compound in site   10 mosques and 1 school   10 mosques a			Engine for D	eep Well	1	Benz	Broken	1987	GAREW
Eng /Gen. for Booster   Pump House for Booster   Pump House for Booster   Pump House for Booster   Pump House for Booster   Booster Tank   Distribution Tank   RC   75m3   2005   GARWS    Pumping Main   SGP   Cannot use   1987   Village   Distribution Main   Public Tapstand   House Connection   Pipe to 2 open tanks in nearby school and 1 village, and 1 vehicle water post next to pum house.   Gasoline filling station and chicken breeding compound in site   10 mosques and 1 school   Rorel			Pump House	for Deep We	Rock		Cannot use	1987	GAREW
Pump House for Booster   Booster   Booster   Booster   Tank			Pump for Bo	oster			İ		!
Booster Tank			Eng./Gen. fo	r Booster					!
Distribution Tank   RC   75m3   2005   GARWS    Pumping Main   SGP   Cannot use   1987   Village	i		Pump House	for Booster	ĺ	1			
Pumping Main   SGP   Cannot use   1987   Village			Booster Tan	k					
Pumping Main   SGP   Cannot use   1987   Village			Distribution -	Γank	RC	75m3		2005	GARWSP
Distribution Main Public Tapstand House Connection Pipe to 2 open tanks in nearby school and 1 village, and 1 vehicle water post next to pum house. Gasoline filling station and chicken breeding compound in site 10 mosques and 1 school  WATER SOURCE PANEL No. Item Description  Grid (UTM) 1630283 386534  Grid (Lat/Lon) 144' 38.6" 43"56' 45.2"  Present Condition (Pump Type) Not working Verticap pump under repair Elevation (m) 2,205 m Aquifer/Geological Description  Year of Construction 1985 Fund GAREW Depth (m) 310 m Casing Diameter (inch) 8 inch Screen Static Water Level (G.Lm) 185.8 m Dynamic Water Level (G.Lm) 293.3 m Drawdown (m) 23.5 m Discharge (g/min) 55 g/min 3.5 L/sec Discharge (g/min) 50.3 mS/m PH 7.83 Temperature (*C) 31.7			Pumping Ma	in	SGP		Cannot use		
House Connection	·								
Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observations  Observation and chicken breeding compound in site 10 mosques and 1 school  Description  Description  Description  Observation  Description  Observation  Description  Observation  Description  De			Public Tapst	and			i		i
Observations			House Conn	ection					:
Observations				en tanks in ne	arby school	and 1 village,	and 1 vehicle	water post ne	ext to pump
Sasoline falling station and cricken breeding compound in site									
No.   Item   Description		0.000, (d.10110				eding compou	ınd in site		•
No.   Item	WATE	R SOURCE PANEL	10 mosques	and 1 school					
Borehole Code						Description	-		
Grid (UTM)   East   1630283   386534								a graning.	1. 19 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Grid (Lat/Lon)			North	East					
Lat. N   Lon. E		GIIG (UTIVI)	l						San Argentin
A									
Present Condition (Pump Type)   Not working Verticap pump under repair	ļ <u>-</u>	Grid (Lat/Lon)							
Elevation (m)	l	Present Condition (Pump Type)			np under repa	air			· · · · · · · · · · · · · · · · · · ·
Aquifer/Geological Description   1985	l	· · · · · · · · · · · · · · · · · · ·					·		1 2 2
Year of Construction         1985           Fund         GAREW           Depth (m)         310 m           Casing Diameter (inch)         8 inch           Screen         Static Water Level (G.Lm)           Static Water Level (G.Lm)         209.3 m           Dynamic Water Level (G.Lm)         209.3 m           Drawdown (m)         23.5 m           Discharge (g/min)         55 g/min         3.5 L/sec           Specific Capacity         0.148 L/s/m           EC (mS/m)         50.3 mS/m           pH         7.83           Temperature ('C)         31.7			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				
Fund   GAREW     Depth (m)			1985				7.		<u> </u>
Casing Diameter (inch)         8 inch           Screen         Static Water Level (G.Lm)         185.8 m           Dynamic Water Level (G.Lm)         209.3 m           Drawdown (m)         23.5 m           Discharge (g/min)         55 g/min         3.5 L/sec           Specific Capacity         0.148 L/s/m           EC (mS/m)         50.3 mS/m           pH         7.83           Temperature (*C)         31.7				·					
Screen   Static Water Level (G.Lm)   185.8 m     Dynamic Water Level (G.Lm)   209.3 m     Drawdown (m)   23.5 m     Discharge (g/min)   55 g/min   3.5 L/sec     Specific Capacity   0.148 L/s/m     EC (mS/m)   50.3 mS/m     PH   7.83     Temperature (C)   31.7			310	m		. <del></del>		14, 14 25,	
Static Water Level (G.Lm)			8	inch					1 / 2 / 2 / 2
Dynamic Water Level (G.Lm)									
Drawdown (m)         23.5 m           Discharge (g/min)         55 g/min         3.5 L/sec           Specific Capacity         0.148 L/s/m           EC (mS/m)         50.3 mS/m           pH         7.83           Temperature (°C)         31.7									<u> </u>
Discharge (g/min)   55 g/min   3.5 L/sec     Specific Capacity   0.148 L/s/m     EC (mS/m)   50.3 mS/m     pH   7.83     Temperature (°C)   31.7								- 1 · · · · · · · · · · · · · · · · · ·	
Specific Capacity		Drawdown (m)					· 1		
EC (mS/m)     50.3 mS/m       pH     7.83       Temperature (*C)     31.7					3.5	L/Sec	<u> </u>	<u>. 454</u>	<del></del>
pH         7.83           Temperature ('C)         31.7							•		
Temperature (°C) 31.7		pH			L	<del></del>			· <u> </u>
								The state of the s	
) serious				·					· · · · · · · · · · · · · · · · · · ·
				· <del></del>					

No.	ER SUPPLY PLANNING PANEL Item		Description	on		
	[Design Parameter]					
	No. of Villages in Total	0		and the second s		
	No. of Villages to be Covered	0				
	Current Population (2006)	2,475				
	Design Population (2016)	3,339				
	Design Water Supply Rate	40 L/c/d	134 m³/day			
	Type of Work Required	New construction				
	Required Facilities	Component	Constructed by	Notes		
		Pump for Deep Well	Donor	Replace		
		Eng./Gen. for Deep Well		New		
		Pump House for Deep W	/∈ Donor/Village	New		
		Pump for Booster				
		Eng./Gen. for Booster				
		Pump House for Booster	· <u> </u>			
		Booster Tank	<u> </u>			
		Distribution Tank	GARWSP	Already constructed		
	<u> </u>	Pumping Main	Donor	New		
	<del>.</del>	Distribution Main	Donor	New		
	·	Public Tapstand	Donor	New (for mosque, school and clinic on New		
		House Connections	Village			
	Accessibility	Through unpaved, rocky	mountain roads			
	Security					
	Observation	i				
	RATION AND MAINTENANCE PANEL					
۷o.	Item		Description	on		
	No. of Village Head (Sheikh)					
	No. of Tribe					
	Observation in Current Supply Scheme					
	Mode of Ownership					
	Mode of Management Entity		<u> </u>			
	Organizational Management	<u>:</u>				
	Technical Operation and Maintenance					
	Financial Management and Transparency	<u> </u>	.			
	Stakeholder Involvement / Responsibility Sha	aring	<u>i</u>			
	Community Contribution			<del></del>		
	Community Contracting-Out Conflict Resolution	- !				
		r				
	Pro-Gender and Pro-Poor Remarks	i i	·- <del> </del>			

	DENTIFICATION PANEL						<u> </u>	
No.	Item		w		Description			
	Code No.	D-03				10120 101 100 100 100 100 100 100 100 10	100000000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Site Name	Hegrat Al A'a	asham				7	
	Sub-District (Uzlat)							
	District	Jabal Al Sha	ırq		1			The state of the s
	Governorate	Dahmar						
	Coordinates	Latitude	Longitude		The second second			
	Coordinates							
	Coordinates (Measured Location)							
	Annual precipitation (rainfall)	480	mm					TO RECY. CO. C. C. C. C. C. C. C. C. C. C. C. C. C.
	Population (2006)	1,592						
	Population (2016)	2,148		Section of the section of		NE CHARLES TO SERVICE AND AND AND AND AND AND AND AND AND AND	6 - 14 × 1 · · · · · · · · · · · · · · · · · ·	H a Kiba da Hara Cala a Anga (
	No. of Village (Qariah) in Total			1.0 1. 1010a, 1.7. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1.	**************************************		CHAIR APPLEACH AND A CANNEL	
	No. of Village (Qariah) to be served							
	William (Option) in the Community	Na	ime	Popu	lation	Household	Coordinate	(Lat / Lon)
	Village (Qariah) in the Community	Hegrat Al A's	sham		1,592	190		
XIST	ING WATER SUPPLY SCHEME PANEL						* .	
۱o.	Item			•	Description	-		
	Functioning	Partially exis	ting	2.17A				
	Components of Existing Water Supply Scheme	Comp	onent	Speci	fication	Condition	Year	Fund
		Pump for De	ep Well			i		
		Eng./Gen. fo	r Deep Well					
		Pump House	for Deep W	Rock under	construction		2006	Village
		Pump for Bo						
		Eng./Gen. fo	r Booster					
			e for Booster	Rock under	construction		2006	Village
		Booster Tan	k	RC 25m3				GARWSP
		Distribution <sup>-</sup>	Tank	RC 40m3	3m Elevated		2005	GARWSP
		Pumping Ma	in					
		Distribution I						
			VICILII			i		
		Public Tapst House Conn	and					
		Public Tapst	and					-
	Observations	Public Tapst	and					
VATE	Observations R SOURCE PANEL	Public Tapst	and					· · · · · · · · · · · · · · · · · · ·
		Public Tapst	and		Description			
<b>VATE</b> lo.	R SOURCE PANEL	Public Tapst	and		Description			
	R SOURCE PANEL  Item  [Borehole Code]	Public Tapst	and ection		Description			
	R SOURCE PANEL  Item	Public Tapst House Conn	and ection		Description			And Control of the Co
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	Public Tapst House Conn North	and ection East		Description			
	R SOURCE PANEL  Item  [Borehole Code]	Public Tapst House Conn North 1626967 Lat. N	ection  East 392157		Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	Public Tapst House Conn North 1626967 Lat. N	ection  East 392157 Lon. E		Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Public Tapst House Conn North 1626967 Lat. N 14°42' 51.6"	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	North 1626967 Lat. N 14°42' 51.6"	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	North 1626967 Lat. N 14°42' 51.6"	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	North 1626967 Lat. N 14°42' 51.6" Capped 2,041	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	North 1626967 Lat. N 14°42' 51.6" Capped 2,041	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320	ection  East 392157 Lon. E 43°59' 53.7"		Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320	ection  East 392157 Lon. E 43°59' 53.7"  m		Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8	ection  East 392157 Lon. E 43°59' 53.7"  m  inch		Description			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8	ection  East 392157 Lon. E 43°59' 53.7"  m inch		Description			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8 163.1 184 20.9	ection  East 392157 Lon. E 43°59' 53.7"  m inch	5.0	Description  L/sec			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8 163.1 184 20.9 79	ection  East 392157 Lon. E 43°59' 53.7"  m  m inch					
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8 163.1 184 20.9 79 0.239	East 392157 Lon. E 43°59' 53.7"  m  inch  m  m  g/min					
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8 163.1 184 20.9 79 0.239 44.5	East 392157 Lon. E 43°59' 53.7"  m inch  m m g/min L/s/m mS/m					
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8 163.1 184 20.9 79 0.239	East 392157 Lon. E 43°59' 53.7"  m inch  m m m m m m m m m m m m m m m m m m					
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	North 1626967 Lat. N 14°42' 51.6" Capped 2,041 1999 GAREW 320 8 163.1 184 20.9 79 0.239 44.5 7.12	East 392157 Lon. E 43°59' 53.7"  m inch  m m m m m m m m m m m m m m m m m m					

WAT	ER SUPPLY PLANNING PANEL		era e e e		
No.	Item	ļ		Description	The state of the s
	[Design Parameter]				
<u></u>	No. of Villages in Total	0			ទីស្រុក (1945)។ ពេលប្រចាំព្រះស្នាក់ទីនេះប៉ុន្តែលក្សប៉ុន្តែស្រុក ប្រជុំប្រក្រឡុំប្រក្រឡុំប្រក្រៀបប្រៀបប្រទៀបប្រ
	No. of Villages to be Covered	0	100		series in modernie sen, die deutsche participation der deutsche deutsche deutsche deutsche deutsche deutsche d
	Current Population (2006)	1,592		NE DE LE CONTROL DE LA CONTROL	
	Design Population (2016)	2,148			
	Design Water Supply Rate	40	L/c/d	86 m³/day	
ļ	Type of Work Required	New construction  Component  Pump for Deep Well  [			
	Required Facilities			To be Constructed by	Notes
				Donor	New
			r Deep Well		New
				Donor/Village	Walls already constructed, need roof
		Pump for Bo		Donor	New
		Eng./Gen. fo	r Booster	Donor	New
		Pump House	for Booster	Donor/Village	Walls already constructed, need roof
		Booster Tan	k	GARWSP	Already constructed
		Distribution 7	Tank	GARWSP	Already constructed
		Pumping Ma	in	Donor	New
		Distribution I	Main	Donor	New
		Public Tapst	and	Donor	New (for mosque, school and clinic on
		House Conn	ections	Village	New
	Accessibility	Through unp	aved, rocky r	nountain roads	
	Security				
	Observation				
OPER	RATION AND MAINTENANCE PANEL				
No.	Item			Description	
	No. of Village Head (Sheikh)				
	No. of Tribe				ar i i i i i i i i i i i i i i i i i i i
	Observation in Current Supply Scheme				
	Mode of Ownership				
	Mode of Management Entity				
	Organizational Management				
	Technical Operation and Maintenance				
	Financial Management and Transparency				
	Stakeholder Involvement / Responsibility Shar	ing			
	Community Contribution				
	Community Contracting-Out				
	Conflict Resolution	<u> </u>			
	Pro-Gender and Pro-Poor				
	Remarks	1			

E IDENTIFICATION PANEL			Danasint	:		
. Item			Descript	ion		12.7.22
Code No.	D-04	1 35.5			<u>, 1, 2, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</u>	, jaden .
Site Name	Al Kuob					e nadili se
Sub-District (Uzlat)	Al Kuob					
District	Duran					
Governorate	Dahmar			7	7 (4)	
	Latitude	Longitude			. is 12.1	
Coordinates	Latitude	Longitude	1			<del> </del>
<del></del>			١			
Coordinates (Measured Locati			,			
Annual precipitation (rainfall)	4	40 mm			* 4.	
Population (2006)	3,526				1 1	
Population Forecast (2016)	4,393				100	
No. of Village (Qariah) in Total						
No. of Village (Qariah) to be se					<del>- , , , , , , , , , , , , , , , , , , ,</del>	
itto: or villago (garian) to be se		Name	Population	Household	Coordinate	U at / L a
<del></del> i	i		Population	nousenoid		
<u>.</u>	Al Nasami		<u></u>		14°44' 31"	44°10'
	Bait Al Sho	owish	:	,		İ
	Al Hamra's	а		,		
—— <u> </u>	Gharbeen	4 4				
\/illago (Ooriob) in the Commu						İ
Village (Qariah) in the Commu						
<u>'</u>	Al Koub			!		<u> </u>
!	Al Selaf				14°42' 10"	44°10'
	Al Demna				<u> </u>	, 11. !
<del></del> i	Al Mifa'ah		<u></u>		:	:
<del></del> ;	Al Hafah			-		<b>.</b>
<u>:</u>			İ	i i		!
STING WATER SUPPLY SCHEM	E PANEL					
Item	l .		Descript	ion		
Functioning	:No existing			<u> </u>	<u>, Norwell (</u>	<u> 114 - 51 </u>
Components of Existing Water		mponent	Specification	Condition	Year	Fund
	Pump for E	Deep Well	:			
· · · · · · · · · · · · · · · · · · ·		for Deep Well	i			
		ise for Deep We				
	Pump for E		···			
		for Booster				
		ise for Booster		<del>;</del>		
	Booster Ta	ank				
	Distribution	n Tank				
	Pumping M	<i>l</i> lain				
· I	Distribution					
	Public Tap				-	<u> </u>
<u> </u>	House Cor		<del></del>			
			i	<u></u>	i	·
Observations	18 mosque	es, 10 schools, 2	2 health centers			
TER SOURCE PANEL						
Item			Descripti	on		
			Descripti	OII		
【Borehole Code】			<u> </u>		*	
	North	East		+1		<ul> <li>4.15</li> </ul>
Grid (UTM)						1 m 2
Grid (UTM)	1631619	411900			the state of the s	
	1631619		<u> </u>	<u> </u>		
Grid (UTM) Grid (Lat/Lon)	1631619 Lat. <b>N</b>	Lon, E	<u> </u>	<u> </u>		
Grid (Lat/Lon)	1631619 Lat. N 14°45′ 25.					
Grid (Lat/Lon) Present Condition (Pump Type	1631619 Lat. N 14°45' 25. Capped	Lon, E 7" 44°10' 53.3"				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m)	1631619 Lat. N 14°45' 25. Capped 2,23	Lon, E				
Grid (Lat/Lon) Present Condition (Pump Type	1631619 Lat. N 14°45' 25. Capped 2,23	Lon, E 7" 44°10' 53.3"				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description	1631619 Lat. N 14°45' 25. Capped 2,23	Lon. E 7" 44°10' 53.3" 37 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction	1631619 Lat. N 14°45' 25. ) Capped 2,23	Lon. E 7" 44°10' 53.3" 37 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction	1631619	Lon. E 7" 44°10' 53.3" 37 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m)	1631619	Lon. E 7" 44°10' 53.3" 37 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch)	1631619	Lon. E 7" 44°10' 53.3" 37 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen	1631619	Lon. E 7" 44°10' 53.3" 37 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch				5.
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 20 m				
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 90 m 90 m 97 g/min	3.6 L/sec			- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 20 m	3.6 L/sec			
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	1631619  Lat. N 14°45' 25. ) Capped 2,23  199 GAREW 15  12  3 5 0.12	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 20 m 30 m 57 g/min 20 L/s/m	3.6 L/sec			
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 20 m 30 m 57 g/min 20 L/s/m .5 mS/m	3.6 L/sec			
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 20 m 30 m 57 g/min 20 L/s/m 5 mS/m	3.6 L/sec			
Grid (Lat/Lon)  Present Condition (Pump Type Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	1631619	Lon. E 7" 44°10' 53.3" 37 m 99 52 m 8 inch 90 m 20 m 30 m 57 g/min 20 L/s/m .5 mS/m 23 .6	3.6 L/sec			

WATE	R SUPPLY PLANNING PANEL					
No.	Item			Description	1	
	[Design Parameter]					rave te de la filipatrica de la filipatrica de la filipatrica de la filipatrica de la filipatrica de la filipa
	No. of Villages in Total	0			,	
	No. of Villages to be Covered				· .	
	Current Population (2006)	3,526			1.7	
	Design Population (2016)	4,393				
	Design Water Supply Rate	40	L/c/d	176 m <sup>3</sup> /day		
	Type of Work Required	New constru	ction			
	Required Facilities	Comp	onent	To be Constructed by	Ī	Notes
		Pump for De	ep Well	Donor	New	
-		Eng./Gen. fo	r Deep Well	Donor	New	
	4 · · · · · · · · · · · · · · · · · ·			Donor/Village	New	
	· · · · · · · · · · · · · · · · · · ·	Pump for Bo		Donor	New×2	
		Eng./Gen. fo		Donor	New×2	
		Pump House	for Booster	Donor/Village	New×2	
		Boosler Tani		Donor	New×2	
		Distribution 1	ľank	Donor	New	
		Pumping Ma	in	Donor	New	
		Distribution N		Donor	New	
_		Public Tapst		Donor		nosque, school and clinic o
	<u> </u>	House Conn		Village	New	
	Accessibility	¡Good, next to	o paved road	, but access inside site the	ough moutai	inous road
	Security	l l				
	Observation	!				
OPER	ATION AND MAINTENANCE PANEL					
No.	Item	ļ		Description	1	
	No. of Village Head (Sheikh)				1 1	
	No. of Tribe				1.00	
	Observation in Current Supply Scheme	1			1	
	Mode of Ownership					i
	Mode of Management Entity		1		- <del>†</del>	
	Organizational Management	1				!
	Technical Operation and Maintenance		1	<u> </u>		
	Financial Management and Transparency		<u> </u>	i		
	Stakeholder Involvement / Responsibility Sha	aring	, ,	!		
	Community Contribution		!	<u>                                     </u>	i .	İ İ
	Community Contracting-Out			<u> </u>	į	
	Conflict Resolution			;	ì	
	Pro-Gender and Pro-Poor			i		
	Remarks	!		!		

0.	Item	1			Description			
	Code No.	D-05						· v - t - ·
	Site Name	Mayla'at Ya	<u>-</u>					
- 1		iviayia at Tae	<del></del>		L			<del></del>
	Sub-District (Uzlat)							
	District	Ans					* * .	<u> </u>
	Governorate	Dahmar					in the second	
		Latitude	Longitude			<del></del>		State of the
i	Coordinates	Lantude	Longitudo		······································	<del></del>		· · · · · ·
					<u></u>	<u> </u>		
	Coordinates (Measured Location)							
!	Annual precipitation (rainfall)	470	mm					<u> </u>
	Population (2006)	1,515				and the first of	and the second second	
	Population Forecast (2016)	2,044						1 1 1 1 1 1 1
		2,011	1			<del></del>	<del></del>	
!	No. of Village (Qariah) in Total	<del></del>						
	No. of Village (Qariah) to be served		1	T	.1 _ 45			
			ame	Popu	ılation	Household	Coordinate	(Lat / Lor
į	Village (Qariah) in the Community	Al Hesn		L	387			
		Al Mayfa'a			1,128	<b>159</b> i		
KISTI	NG WATER SUPPLY SCHEME PANEL							
).	Item	- 1			Description			
	Functioning	Functional		Γ			<del></del>	50 at 5 2
	Components of Existing Water Supply Schem		ponent	Snooi	fication	Condition	Year	Fund
	Components of Existing water Supply Schem					Condition		
	· · · · · · · · · · · · · · · · · · ·	Pump for De		Vertical	CAPRARI_	·		GAREW
:	· · · · · · · · · · · · · · · · · · ·	Engine for D	eep Well	Diesel	Interschalt	·		GAREW
			for Deep We		<u>l</u> .	:		Village
- 1	· · · · · · · · · · · · · · · · · · ·	Pump for Bo		Horizontal	KSB	:		GAREW
		Engine for B			MWM Motor	es		GAREW
			for Booster	Rock		7		GAREW
<del></del>		Booster Tan		Steel panel	25m3	Leaking		GAREW
<del>- i</del>		Booster Tan						
				Steel panel	25m3	Now as main		GAREW
		Distribution		Steel panel	25m3	Not used		GAREW
		Pumping Ma	iin <u></u>	SGP	<u>i</u>	<u>:</u> !		GAREW
		Distribution I	Main	SGP	į	!	1985	GAREW
		Public Tapst	and	1 Stand with	6 taps		2001	Village
	Observations	House Conn When boreh stopped usir	ection ole pump bed ng original ma REW constru	ame weak, bo	ooster tank 2 tank. All tan	was used as d ks are deterior tap type), but s	listribution tar rated,	nk and
		House Conn When boreh stopped usir In 1985, GAI	ection ole pump bed ng original ma REW constru	ame weak, bo	ooster tank 2 tank. All tan	ks are deterior	listribution tar rated,	nk and
ATER	Observations R SOURCE PANEL Item	House Conn When boreh stopped usir In 1985, GAI	ection ole pump bed ng original ma REW constru	ame weak, bo	ooster tank 2 tank. All tan	ks are deterior tap type), but s	listribution tar rated,	nk and
ATE:	R SOURCE PANEL	House Conn When boreh stopped usir In 1985, GAI	ection ole pump bed ng original ma REW constru	ame weak, bo	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATES	R SOURCE PANEL Item [Borehole Code]	House Conn When boreh stopped usir In 1985, GAI pump becam	ection ole pump bec ng original ma REW constru ne weak.	ame weak, bo	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL Item [Borehole Code]	House Conn When boreh stopped usir In 1985, GAI pump becam	ection ole pump bec ng original ma REW construe ne weak.  East	ame weak, bo	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER ).	R SOURCE PANEL	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810	ection ole pump becong original ma REW construction weak.  East 417769	ame weak, bo	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	House Conn When boreh stopped usir In 1985, GAI pump becam	ection ole pump bec ng original ma REW construe ne weak.  East	ame weak, bo	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL Item [Borehole Code]	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N	ection ole pump becong original ma REW construction weak.  East 417769 Lon. E	ame weak, bo in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9"	ection ole pump becong original ma REW construction weak.  East 417769 Lon. E 44°14′12.3"	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working	ection ole pump becong original ma REW construction weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pum	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9"	ection ole pump becong original ma REW construction weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pum	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working	ection ole pump becong original ma REW construction weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pum	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER ).	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176	ection ole pump becong original market construction weak.  East 417769 Lon. E 44°14′ 12.3" Vertical pumm	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176	ection ole pump becong original market construction weak.  East 417769 Lon. E 44°14′ 12.3" Vertical pumm	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	Item [Borehole Code] Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW	East 417769 Lon. E 44°14' 12.3"	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW	ection ole pump become original management of the construction of	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW	East 417769 Lon. E 44°14' 12.3"	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW	ection ole pump become original management of the construction of	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW  127 8	East 417769 Lon. E 44°14′ 12.3" Vertical pum m inch	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER -	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW  127 8	ection ole pump become original management of the second original management of the second original management of the second original orig	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER -	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8  59.6 62.8	ection ole pump become original management of the second original management of the second original management of the second original management of the second original origin	ame weak, be in distribution cted 6 public	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8  59.6 62.8 3.2	ection ole pump become original management of the construction of	ame weak, be in distribution cted 6 public f	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8  59.6 62.8 3.2 41	ection ole pump become original management of the construction of	ame weak, be in distribution cted 6 public f	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated,	nk and
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807	ection ole pump become original market construction REW constructions weak.  East 417769 Lon. E 44°14′12.3"  Vertical pumm  m inch  m g/min L/s/m	ame weak, be in distribution cted 6 public f	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2	ection ole pump become original management of the section REW construction of the section of the	p  2.6	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	ame weak, be in distribution cted 6 public f	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  R SUPPLY PLANNING PANEL	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  SUPPLY PLANNING PANEL  Item	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	poster tank 2 tank. All tan apstands (4	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  R SUPPLY PLANNING PANEL  Item  [Design Parameter]	North 1609810 Lat. N 14°33' 39.9" Working 2,176 1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28 30.4	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them who
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  R SUPPLY PLANNING PANEL  Item  [Design Parameter]  No. of Villages in Total	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	them who
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  R SUPPLY PLANNING PANEL  Item  [Design Parameter]  No. of Villages in Total  No. of Villages to be Covered	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28 30.4	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	them who
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  R SUPPLY PLANNING PANEL  Item  [Design Parameter]  No. of Villages in Total  No. of Villages to be Covered	House Conn When boreh stopped usir In 1985, GAI pump becam  North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28 30.4	ection ole pump become goriginal market construction REW constructions weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them wh
ATEF	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m) pH Temperature ('C) Remarks R SUPPLY PLANNING PANEL Item [Design Parameter] No. of Villages in Total No. of Villages to be Covered Current Population (2006)	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28 30.4	ection ole pump become or goriginal market construction REW construction weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	them who
ATER	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH  Temperature ('C)  Remarks  R SUPPLY PLANNING PANEL  Item  [Design Parameter]  No. of Villages in Total  No. of Villages to be Covered	North 1609810 Lat. N 14°33' 39.9" Working 2,176  1984 GAREW 127 8 59.6 62.8 3.2 41 0.807 53.2 7.28 30.4	ection ole pump become or goriginal market construction REW construction weak.  East 417769 Lon. E 44°14′ 12.3"  Vertical pumm  m inch  m m g/min L/s/m mS/m	p  2.6	Description  Description	ks are deterior tap type), but s	listribution tar rated. stopped using	nk and them who

	Demiliard Confiden	Component	To be Constructed	hu Notos
	Required Facilities	1	To be Constructed	
		Pump for Deep Well	Donor	Replace
			Donor	Replace
		Pump House for Deep We		Rehabilitation
			Donor	Replace
	· +···	Eng./Gen. for Booster No.		Replace
	<u> </u>	Pump House for Booster I		Rehabilitation
		Pump for Booster No.2	Donor	New
	<u></u>	Eng./Gen. for Booster No.		New
		Pump House for Booster N		New
		Booster Tank	Donor	Replace or Rehabilitation x 2
		Distribution Tank	Donor	Replace or Rehabilitation
		Pumping Main	Donor	Rehabilitation and New
		Distribution Main	Donor	New
	İ	Public Tapstand	Donor	New
		House Connections	Village	New
	Accessibility	Very difficult, approach thr	ough rocky mountain i	road
	Security			
	Observation	!		
PER	ATION AND MAINTENANCE PANEL			
О.	ltem	: ·	Descrip	tion
		! <b>?</b>		
		1		
	in a man	Power down of pump unit	in horehole is observe	d since 10 years ago
				and maintained, which cost YR 50,000 -
		70,000 per maintenance 5	<ul> <li>10 years ago. How</li> </ul>	ever, problem has not been solved.
		Borehole pump unit has be	en also taken to the v	vorkshop for overhaul maintenance, but
	<u> </u>	problem is not also solved		
	Observation in Current Supply Scheme	<del></del>		ana'a by the game th
	Coservation in Current Supply Scriente	Spare parts of borehole ur		
	: 	Community members men	tioned borehole pump	units has been repaired more than 50 tim
		for the last 10 years.		
		Cost for maintenance and	repair of borehole pun	np units are mostly borne by Sheikh.
		Borehole pump unit is ope	<u>-</u>	<u></u>
				de book de
	!	Another borehole is drilled		
	Mode of Ownership	No legal arrangement for o		s made.
	Wode of Ownership	No handing-over documen	t is prepared.	
	i	There is no CBO setting	The scheme is manag	ed by Aqil (as scheme manager) and
		Sheikh, with pump operato		
	Mode of Management Entity			
	Mode of Management Entity			carried out by Aqil and Sheikh.
	·		anagement is largely n	nade by the Sheikh and Aqil, through villag
		authority meetings.		
		No constitution for the scho	eme management is p	repared.
		No legal status is provided	for the management I	oody (Sheikh and Aqil management in
!	Organizational Management	traditional setting).		, (
į		Manager (Aqil), Sheikh, an	d anaratar ara wash a	
!				n voluntary base.
i		No technical manual is pre	<u> </u>	
		No operation and maintena	ance record is kept.	
	Technical Operation and Maintenance	Major repair: Borehole pun	np overhaul was carrie	ed out, hiring contractor (C/A to Existing
	•	Scheme Management Pan		and to Enough
		<u> </u>		oo by Shaild
j		Funding for major repair ar		
į			ne by the community (t	users), by raising fund selling qut and
	Financial Management and Transparency	vegetable when available.		
	manda wanagement and transparency	Daily operation cost is colle	ected by Aqil (Scheme	Manager).
i	! 	Scheme Manager (Aqil) an		
	· <del>-</del> · <del>-</del> ·	No training had been provi		
	Stakeholder Involvement / Responsibility Sharing			
		No assistance by District C		
				struction of existing scheme.
İ	Sommony Sommon	Pipe transportation and lay	ing is prepared by the	community in future project.
!	:			(overhaul) is concluded with contractor.
	Community Contracting-Out	There is no other commun		
!		No conflict cases are ment		<u></u>
}		TWO COMMICT CASES ARE MENT	ioneu.	
i	Pro-Gender and Pro-Poor	·		
	ļ	i nere is another water sou	rce (borehole?) availa	ble about 3 km away from the community
	!	However, it is located in an	other village, which ca	n not be shared with the community due
		tribal conflict in usage.		•
			ele in distance (3-4 km	away form the community) located in
	•			
i		another village, which can a	nni charea umb mossa	
	Remarks	another village, which can		
	Remarks	Six to seven households in	stalled private water ta	ank connecting existing water scheme.
	Remarks	Six to seven households in Water from those private ta	stalled private water ta inks are provided to th	ank connecting existing water scheme. e community at free, and used only for
	Remarks	Six to seven households in Water from those private ta	stalled private water ta inks are provided to the on the top of mountain	ank connecting existing water scheme. he community at free, and used only for hin the remote area from the main road. I

0.	DENTIFICATION PANEL Item				Description	1		
υ.	<u> </u>	<u>.</u>	F		Description		4	
	Code No.	D-06		A 4		<u> </u>		
	Site Name	Wardasan						<u>Carriera</u>
	Sub-District (Uzlat)	! !						
	District	Ans				1		77777
	Governorate	Dahamar						
	- Covernorate	i - <del></del>	Longitudo	Г	<u> </u>			
	Coordinates	Latitude	Longitude					<u> </u>
	<u></u>	<u>!</u>	l , <u>-</u> .	<u> </u>			<u> </u>	
	Coordinates (Measured Location)	:						
	Annual precipitation (rainfall)	480	mm				40.00	
	Population (2005)	2,146						7 7
	Population Forecast (2016)	1						
	1 -	2,895	, -· <del></del>	· .				<del></del>
	No. of Village (Qariah) in Total							<u> </u>
	No. of Village (Qariah) to be served		]					
	VIII (0.11) (1.00 miles	Na	me	Pop	oulation	Household	Coordinate	e (Lat / Lo
	Village (Qariah) in the Community	Jabal Al Sha	ra			:		!
тет	ING WATER SUPPLY SCHEME PANEL	, cabar, ii ciid	. 1	1		1	I	·
		I			Description			
	Item	! <del>!</del>			Description	<u> </u>		
	Functioning	Partially exis			<u> </u>			<u>- 450,7</u>
	Components of Existing Water Supply Scheme	Comp	onent	Spe	cification	Condition	Year	Fund
		Pump for De	ep Well	Vertical	CAPRARI		2002	Private
		Engine for D	•	, voi nou	Kubota			Private
	<u> </u>	L		<u>;                                    </u>	Kubota		2002	riivale
			for Deep We	e	_			i
		Pump for Bo	oster	1			:	
		Engi./Gen. fo	or Booster	i				
	i	Pump House				· · · · · · · · · · · · · · · · · · ·		
		Booster Tanl				!		<u> </u>
					_	i i		
		Distribution 7		RC	50m3		2005	GARWS
		Distribution 7	Гank	RC	50m3		2005	GARWS
		Distribution 7 Pumping Ma	Tank in	RC	50m3		2005	GARWS
		Distribution T Pumping Ma Distribution M	Гапk in Иаin	RC	50m3		2005	GARWS
		Distribution 7 Pumping Ma	Tank in Main and	RC	50m3		2005	GARWS
	Observations	Distribution T Pumping Ma Distribution M Public Tapsta House Conne	Tank in Main and ection			over to the cor		GARWS
	R SOURCE PANEL	Distribution T Pumping Ma Distribution M Public Tapsta House Conne	Tank in Main and ection		t was handed			GARWS
AT/E		Distribution T Pumping Ma Distribution M Public Tapsta House Conne	Tank in Main and ection					GARWS
	R SOURCE PANEL	Distribution T Pumping Ma Distribution M Public Tapsta House Conne	Tank in Main and ection		t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private boref	Tank in Main and ection		t was handed			GARWS
	R SOURCE PANEL Item	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private boreh	Fank in Main and ection nole to be use		t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]	Distribution To Pumping Material Distribution Material Public Tapstar House Connector Private borel  North 1593048	Fank in Main and ection nole to be use East 429221		t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]	Distribution To Pumping Material Distribution Material Public Tapsta House Connector Private borel  North 1593048 Lat. N	Fank in Main and ection nole to be use East 429221 Lon. E	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Distribution Temping Ma Distribution Metallic Tapsta House Connect Private borel  North 1593048 Lat. N 14°24′ 32.5″	Fank in Main and ection nole to be use East 429221 Lon. E 44"20' 36.4"	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Distribution Temping Ma Distribution Metallic Tapsta House Connect Private borel  North 1593048 Lat. N 14°24′ 32.5″	Fank in Main and ection nole to be use East 429221 Lon. E	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Distribution Temping Ma Distribution Metallic Tapsta House Connect Private borel  North 1593048 Lat. N 14°24′ 32.5″	Fank in Main and ection nole to be use 429221 Lon. E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	Distribution 1 Pumping Ma Distribution M Public Tapsta House Conne Private borel  North 1593048 Lat. N  14°24' 32.5" Working	Fank in Main and ection nole to be use 429221 Lon. E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118	Fank in Main and ection nole to be use 429221 Lon. E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118	Fank in Main and ection nole to be use 429221 Lon. E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	Distribution Temping Ma Distribution Metallic Tapsta House Conner Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private	Fank in Main and ection nole to be use 429221 Lon: E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118	Fank in Main and ection nole to be use 429221 Lon: E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	Distribution Temping Ma Distribution Metallic Tapsta House Conner Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220	Fank in Main and ection nole to be use 429221 Lon: E 44°20' 36.4" Vertical pum	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	Distribution Temping Ma Distribution Metallic Tapsta House Conner Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220	Fank in Main and ection nole to be use 429221 Lon. E 44°20' 36.4" Vertical pum m	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8	Fank in Main and ection hole to be use East 429221 Lon. E 44"20' 36.4" Vertical pum m inch	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8	Fank in Main and ection hole to be use East 429221 Lon. E 44°20' 36.4" Vertical pum m inch	ed for projec	t was handed			GARWS
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8 89.65 131.9	Fank in Main and ection hole to be use East 429221 Lon. E 44°20' 36.4" Vertical pum m inch m	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8	Fank in Main and ection hole to be use East 429221 Lon. E 44°20' 36.4" Vertical pum m inch m	ed for projec	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private borel  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8 89.65 131.9 42.25	Fank in Main and ection hole to be use East 429221 Lon E 44°20' 36.4" Vertical pum m inch m m	ed for project	t was handed  Description			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	Distribution Temping Material Distribution Material Distribution Methods of the Private borehold	Fank in Main and ection nole to be use East 429221 Lon. E 44°20' 36.4" Vertical pum m inch m m g/min	ed for project	t was handed			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	Distribution 1 Pumping Ma Distribution M Public Tapsta House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8 89.65 131.9 42.25 8 0.012	Fank in Main and ection mole to be use 429221 Lon. E 44°20' 36.4" Vertical pum m inch m m g/min L/s/m	ed for project	t was handed  Description			GARWS
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution 1 Pumping Ma Distribution M Public Tapsta House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8 89.65 131.9 42.25 8 0.012 143.1	Fank in Main and ection mole to be use 429221 Lon. E 44°20' 36.4" Vertical pum m inch m g/min L/s/m mS/m	ed for project	t was handed  Description			GARWS
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	Distribution 1 Pumping Ma Distribution M Public Tapsti House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8 89.65 131.9 42.25 8 0.012 143.1 8.18	Fank in Main and ection hole to be use East 429221 Lon. E 44°20' 36.4" Vertical pum m inch m g/min L/s/m mS/m	ed for project	t was handed  Description			GARWS
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution 1 Pumping Ma Distribution M Public Tapsta House Conne Private boreh  North 1593048 Lat. N 14°24' 32.5" Working 2,118  1998 Private 220 8 89.65 131.9 42.25 8 0.012 143.1	Fank in Main and ection hole to be use East 429221 Lon. E 44°20' 36.4" Vertical pum m inch m g/min L/s/m mS/m	ed for project	t was handed  Description			GARWS

WATE	ER SUPPLY PLANNING PANEL							
No.	Item	•			Description			
	[Design Parameter]							
	No. of Villages in Total	0		·	<u> </u>	<u>Nijere i</u>	****	An Salakir
	No. of Villages to be Covered	. 0		1				
	Current Population (2006)	2,146		, · ·				
	Design Population (2016)	2,895		- 1 1			tain till	
	Design Water Supply Rate	:	L/c/d	0 m³/day				
	Type of Work Required	New constru	ction					
	Required Facilities	Comp	onent	To be Const	tructed by	1	Notes	
		Pump for De	ep Well	Donor		Replace		
		Eng./Gen. fo	r Deep Well	Donor		Replace		
		Borehole Pui	np House	Donor/Village		New		
		Pump for Bo	oster					
		Eng./Gen. fo	r Booster	!		T		
		Pump House	for Booster					
		Booster Tank	(					
	<del></del>	Distribution T	ank			Aiready c	onstructed	
		Pumping Mai	in	Donor		New		
	:	Distribution N	<i>l</i> lain	Donor		New		
	!	Public Tapsta	and	Donor		New (for	mosque, school	and clinic o
• • •	!	House Conn	ections	Village		New		
	Accessibility							
	Security	:						
	Observation	:						,,
<b>DPER</b>	RATION AND MAINTENANCE PANEL							
No.	Item	i			Description			
	No. of Village Head (Sheikh)	İ		1 1 1 1		•	2018	
	No. of Tribe						44) 1 July 4 3 4	the self property
	Observation in Current Supply Scheme						;	T
	Mode of Ownership					i		
	Mode of Management Entity							
	Organizational Management			<u> </u>				
	Technical Operation and Maintenance					1		i
	Financial Management and Transparency	:						1
	Stakeholder Involvement / Responsibility Sha	ring			***	:		!
	Community Contribution	-		T t				1
	Community Contracting-Out					:		i
	Conflict Resolution			:i		-		
	Pro-Gender and Pro-Poor						-	+
	Trio-Gender and Fro-Foot	- 1		i I				

SITE II	DENTIFICATION PANEL							· · · · · · · · · · · · · · · · · · ·
No.	Item				Descriptio	n		. <b></b>
	Code No.	D-07	Hoybudaddiy		on nitra a Papa Andri (Angelia) a S	Juden Golderster.		
	Site Name	Al Asakera	<u> </u>			อาการสิทธิ์สาราช (2007) 2 เพราะ ของสมเด็จ		<del>(                                    </del>
	Sub-District (Uzlat)				F 7.75 81732 3812 (1871)		<u> </u>	48 1. 41 - 48 3 14 - 4 4 4 3 4 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4
	District	Mayfa'a			ichsaraiy laracaarsa	doja objektoja	January Company Comments of the Comments of th	Towns of the second sec
i	Governorate	Dahmar						
		Latitude	Longitude	100000000000000000000000000000000000000	Private 100 100 100 100 100 100 100 100 100 10	197		
	Coordinates	Lando	Longitudo	\$ 12 m				
	Coordinates (Measured Location)				January of the marie of the s			
	Annual precipitation (rainfall)	440	mm	8. 19.00 X 10.00 X	( and the second of the second			Anni Leni
	Population (2006)	1,944	111111	1000000		an gana karabara wew	ALABATA SEE TOUR	
	Population Forecast (2016)	2,623		E 2012 CO. 1020 C				
<u> </u>	No. of Village (Qariah) in Total	2,020	- Carlo - Carl					
	No. of Village (Qariah) to be served		ARTISTICAL TOTAL CONTROL OF THE	A North Control				
		Na Na	me	Pr	opulation	Household	Coordinate	e (Lat / Lon)
<u> </u>	Village (Qariah) in the Community	Al Asakera		<del></del>	5,072			(Lati Lon)
EXIST	NG WATER SUPPLY SCHEME PANEL	A Addicio			0,072	- 1 3011		
No.	Item				Description		**	
INO.		Partially exis	ting	870.50	Description		223 - 233 -	100 Control of Name (100 Control
<u> </u>	Components of Existing Water Supply Scheme	-	onent	Sno	ecification	Condition	Year	Fund
		Pump for De		Орг		Condition	rear	Fund
		Eng./Gen. fo						
		Pump House						
		Pump for Bo	•	•				
							·	
		Eng./Gen. fo Pump House						
		Booster Tani		DC	402			CADIMOD
		Distribution 1		RC	40m3			GARWSP
				RC	50m3		2005	GARWSP
		Pumping Ma						
		Distribution N				_		
		Public Tapsta House Conne						
		nouse Conn	ecrion					L
İ	Observations	Now using 8	private wells	drilled abo	ut 7 years ago.	•		
WATER	R SOURCE PANEL							
No.	Item				Description	1		
	[Borehole Code]						the state of the s	
	-	North	East					er er under der de wah
	Grid (UTM)	1607499	464141					
		Lat. N	Lon. E		N. Selection		700100	LANGE TO THE RESERVE
	Grid (Lat/Lon)	14°32' 24.8"						
	Present Condition (Pump Type)	Capped			i Phaladh ghaghaganga aga g			
	Elevation (m)	2,589	m					
	Aquifer/Geological Description		***		TO THE SHOP OF THE STATE OF THE	-04-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	- Andrews	who washidah
	Year of Construction	1999				To the control of the		
		GARWSP	22					
	Depth (m)	304	m	9:0: 0:00:00:00		3 (77)		
	Casing Diameter (inch)		inch		الدنية المناوع والمنا		77.77 (WH4.0)	
	Screen		111011					
	Static Water Level (G.Lm)	193.58	m			i i kanterefote stos		
	Dynamic Water Level (G.Lm)	195.13					The transfer of the party of the contract of t	
	Drawdown (m)	1.55				\$10 (14 × 14 × 14 × 14 × 14 × 14 × 14 × 14		5017(1/4-2).1 - 4-7-3
	Discharge (g/min)		g/min		l.5 L/sec			
	Specific Capacity	2.903		4	r.J Dael			
	EC (mS/m)	100.4						
	pH							To the mode of the state of
		7.07						
	Temperature ('C)	37.7	22 (20 to 12 form)					
	Remarks							

WATE	R SUPPLY PLANNING PANEL						
No.	Item			Description			
	[Design Parameter]		The second second				
	No. of Villages in Total	0					
	No. of Villages to be Covered	0					
	Current Population (2006)	1,944					
	Design Population (2016)	2,623					
_	Design Water Supply Rate	40	L/c/d	105 m <sup>3</sup> /day	Mary Lavon and Control of	A to the second	
_	Type of Work Required	New construction			7 (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		
	Required Facilities	Comp	onent	To be Constructed by		Notes	
		Pump for De	ep Well	Donor	New	<del></del>	
_		Eng./Gen. fo	r Deep Well	Donor	New		
	-	Pump House	for Deep W	Donor/Village	New	· ·	
-	-	Pump for Bo	oster	Donor	New x 2		
		Eng./Gen. fo	r Booster	Donor	New x 2		
	-	Pump House	for Booster	Donor/Village	New x 2		
	·	Booster Tank	k No.1	GARWSP	Already con	structed	
		Booster Tanl	k No.2	Donor	New		
		Distribution 1	rank	GARWSP	Already con	structed	
	<del></del>	Pumping Ma	in	Donor	New		
		Distribution N	<i>l</i> lain	Donor	New	·	
·		Public Tapsta	and	Donor	New (for mo	sque, school and clinic on	
		House Conn	ections	Village	New		
	Accessibility	Access by ur					
	Security	Active volcar	no between D	ahmar city and site			
	Observation	ļ					
OPER	ATION AND MAINTENANCE PANEL						
No.	Item			Description		·	
	No. of Village Head (Sheikh)				A 64 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	The state of the s	
	No. of Tribe				Maril Carlottar Carlottar	The party of the p	
	Observation in Current Supply Scheme						
	Mode of Ownership						
	Mode of Management Entity						
	Organizational Management						
	Technical Operation and Maintenance						
	Financial Management and Transparency						
	Stakeholder Involvement / Responsibility Shar	ing					
	Community Contribution						
	Community Contracting-Out						
	Conflict Resolution						
	Pro-Gender and Pro-Poor						
	Remarks						

).	DENTIFICATION PANEL  Item				Description	1		
	<u> </u>	D-08						v. 1 2 1
	.)		L		1		<u> </u>	<u> </u>
	·	Masneat Abo	IUI AZIZ		L			<u>. 77.</u>
	Sub-District (Uzlat)						•	
		Mayfa'a						<u> </u>
	Governorate	Dahmar	<u>-</u>	1		<del></del>		Company of the Compan
	Coordinates	Latitude	Longitude					er skriving.
	<u> </u>		<u> </u>	·	· · · · · · · · · · · · · · · · · · ·			
	Coordinates (Measured Location)			1				Taylan Canada
	Annual precipitation (rainfall)	460	mm			<u>.</u>		
	Population (2006)	406						138 S Miller
	Population Forecast (2016)	548	ı	<u> </u>			· · · · · · · · · · · · · · · · · · ·	
	No. of Village (Qariah) in Total	<u>.                                    </u>	5	. *			<u> </u>	<u> </u>
	No. of Village (Qariah) to be served					· · · · · · · · · · · · · · · · · · ·		<u> </u>
	Village (Qariah) in the Community	Na	me	Рорц	Jation	Household	Coordinate	(Lat / Lor
	Village (Qanan) in the Community	Masna'at Ab	dulazeez		406	53		!
IST	ING WATER SUPPLY SCHEME PANEL							
١.	ltem				Description	ì		
	Functioning	Partially exis	ting					
	Components of Existing Water Supply Scheme	Comp	onent	Speci	fication	Condition	Year	Fund
		Pump for De	ep Well					
		Eng./Gen. fo						
	· · · -			Concrete blo	ock		2004	Village
		Pump for Bo	· · · · · · · · · · · · · · · · · · ·	<u> </u>	1		-	
	<del>                                     </del>	Eng./Gen. fo				<u> </u>		
	·	Pump House						<u>:</u> I
	:	Booster Tanl		<del>                                     </del>				
	<del></del>	Distribution 7		RC	25m3	+	2005	GARWS
	:	Pumping Ma			23110		2003	CARTO
	<u> </u>	Distribution N				<u>;</u>		
		·		<u> </u>		:		<u>i</u>
	<u> </u>	Public Tapst				<del>:</del>		
		House Conn	ection			<u>-4</u> .!		
	Observations	Distribution t	ank requires	painting.				
		D.00.1.00.00						
	TO BOURDE BANEL	1						
	R SOURCE PANEL	1			Description			
	ltem		·	_	Description	]	•	
ATE ).	<del> </del>	·	<u></u>		Description	) 	· · · · · · · · · · · · · · · · · · ·	
	Item [Borehole Code]	North	East		Description		· · ·	
	ltem	North 1597208	449464		Description			
	Item [Borehole Code] ⊣Grid (UTM)	North 1597208 Lat. N	449464 Lon. E		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon)	North 1597208 Lat. N 14°26' 49.2"	449464		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type)	North 1597208 Lat. N 14°26' 49.2" Capped	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m)	North 1597208 Lat. N 14°26' 49.2"	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description	North 1597208 Lat. N 14°26' 49.2" Capped	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m)	North 1597208 Lat. N 14°26′ 49.2" Capped 2,508	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description	North 1597208 Lat. N 14°26′ 49.2″ Capped 2,508	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction	North 1597208 Lat. N 14°26′ 49.2" Capped 2,508	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m)	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP	449464 Lon. E 44°31' 51.8'		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP	449464 Lon. E 44°31' 51.8" m		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP	449464 Lon. E 44°31' 51.8' m		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	North 1597208 Lat. N 14°26′ 49.2" Capped 2,508 2004 GARWSP 268 8	449464 Lon. E 44°31' 51.8' m m inch		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP 268 8	449464 Lon. E 44°31' 51.8' m m inch		Description			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP 268 8 62 123.7 61.7	449464 Lon. E 44°31' 51.8' m m inch m					
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP 268 8 62 123.7 61.7	449464 Lon. E 44°31' 51.8"  m  m inch  m m g/min		Description  L/sec			
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP 268 8 62 123.7 61.7 71 0.073	### ##################################					
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP 268 8 62 123.7 61.7 71 0.073 34.2(39)	449464 Lon. E 44°31' 51.8"  m  m inch  m m g/min					
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	North 1597208 Lat. N 14°26′49.2" Capped 2,508 2004 GARWSP 268 8 62 123.7 61.7 71 0.073 34.2(39) 8.25(6)	M m inch m g/min L/s/m mS/m					
	Item [Borehole Code] Grid (UTM) Grid (Lat/Lon) Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	North 1597208 Lat. N 14°26' 49.2" Capped 2,508 2004 GARWSP 268 8 62 123.7 61.7 71 0.073 34.2(39)	M m inch m g/min L/s/m mS/m					

	ER SUPPLY PLANNING PANEL	1		B 1.0				
No.	Item	<u>i</u>		Description	 			
	【Design Parameter】			· · · · · · · · · · · · · · · · · · ·				
	No. of Villages in Total	0			<u> </u>			
	No. of Villages to be Covered	0		<u> </u>				
	Current Population (2006)	406		to the constant of the constan				
	Design Population (2016)	548						
	Design Water Supply Rate	40	L/c/d	22 m³/day				
	Type of Work Required	New construc	tion					
	Required Facilities	Compe	onent	To be Constructed by	Notes			
	· · · · · · · · · · · · · · · · · · ·	Pump for Dee	p Well	Donor	New			
	<u> </u>	Eng./Gen. for	Deep Well	Donor	New			
		Pump House		Village	Already constructed			
	· · · · · · · · · · · · · · · · · · ·	Pump for Boo			•			
	<u>.                                    </u>	Eng./Gen. for			-			
		Pump House						
	<u> </u>	Booster Tank						
				CADMOD	Almost completed			
		Distribution T		GARWSP	Almost completed			
		Pumping Mair		Donor	New			
		Distribution M		Donor	New			
	<u> </u>	Public Tapsta		Donor	New (for mosque, school and clinic o			
		House Conne	ections	Village	New			
	Accessibility							
	Security							
	Observation	İ						
)PEF	RATION AND MAINTENANCE PANEL							
lo.	Item	i		Description				
	No. of Village Head (Sheikh)	1						
	No. of Tribe	1						
	110.0.1100	New scheme	is under con	struction				
	-	i		d by the community.				
					mmunity contribution is not consulted			
			o that some	confusion among commur	ity and conflict/distrust with GARWSP			
		observed.						
		Pipeline installation is promised in 2005 by GARWSP, although currently prolonged to Formula GARWSP insists the trench digging for pipeline be done by the community for GARWSP						
	Observation in Current Supply Scheme	1		in algging for pipeline be o	ione by the community for GARWSP			
	SSSS VALOR III SANORE SUPPLY SONSINS	installing pipe Community m		se the trench digging due	to hard rocks in the ground, insisting i			
		responsibility			to hard rooms in the ground, motoring in			
		Community m	embers furth	ner mentioned trench diggi	ng is not necessary if galvanized			
		pipelines are						
					is made by GARWSP, although			
		-		ind pipe laying.	such as pipe transportation from			
	Mode of Ownership	N/A	andii Onice e	ind pipe laying.	· · · · · · · · · · · · · · · · · · ·			
	widde of Ownership	:	epresentative	es, one each from sub-villa	ge, are selected by community			
	Mode of Management Entity	recommendat	-	io, one easi nom out the	go, are constound by community			
	,			er planning to evolve them	to the management body/committee.			
	Organizational Management			ed after formation of mana				
٠	Technical Operation and Maintenance	N/A	<del></del>		· <del></del>			
	Financial Management and Transparency				after operation of the scheme.			
	Stakeholder Involvement / Responsibility Sharin	No Local Cou	ncil involven	nent is observed.				
		Sharin No Local Council involvement is observed.  No organized and written arrangement for further construction and community contribution made between GARWSP and the community.						
	Community Contribution	made betwee		and the community.	<u></u>			
	Community Contribution	Community re	efuses trench	digging for pipeline instra	llation, although the provision of pipe			
	Community Contribution	Community retransportation	efuses trench	digging for pipeline instra	llation, although the provision of pipe			
	Community Contracting-Out	Community re transportation N/A	efuses trench and laying i	n digging for pipeline instra s agreeable.	llation, although the provision of pipe			
	Community Contracting-Out Conflict Resolution	Community re transportation N/A No conflict ca	efuses trench and laying i	n digging for pipeline instra s agreeable.	llation, although the provision of pipe			
	Community Contracting-Out	Community re transportation N/A No conflict ca N/A	efuses trench and laying i ses are men	digging for pipeline instra s agreeable. tioned.				
	Community Contracting-Out Conflict Resolution	Community re transportation N/A No conflict ca N/A Organized co	efuses trench and laying i ses are men	digging for pipeline instra s agreeable. tioned.	nighly required to define responsibilities			

0.	DENTIFICATION PANEL			F			
	Item	<u> </u>		Description	<u> </u>		
	Code No.	I-01	J <u>.</u>	·	1H <sub>2</sub>	tifiya te	
	Site Name	Asfal Bani S	aba			,	
	Sub-District (Uzlat)	Bani Saba					
	District	Al Qafr					
	<del></del>						
	Governorate	lbb					<u> </u>
	Coordinates	Latitude	Longitude		4		
	Coordinates						
	Coordinates (Measured Location)	<del>:</del>	<u> </u>			·	
	Annual precipitation (rainfall)	750	mm			···	
		<del>                                     </del>			<del></del>		
	Population (2006)	9,311					
	Population Forecast (2016)	11,884		A STATE OF THE STA			
	No. of Village (Qariah) in Total						
	No. of Village (Qariah) to be served	<del> </del>	/'	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del> </del>	
	(2-1-1)	Nz	.i ame i	Population	I leveled i	Coordina	(a /l a4 / l a
	:			Population	Household	Coordina	te (Lat / Lo
	<del>.</del> .	Mamsa Al S		2,621	471		i
	:Village (Qariah) in the Community	Mamsa Ham	nas	1,011	104		i
	¬ :	Mamsa Al M	laiarah	3,657	763		
	·!	Mamsa Waq		2,022			
/187	NO WATER OURREST COLUMN RANGE	IVIAITISA VVAQ	jan .	2,022	381		İ
	ING WATER SUPPLY SCHEME PANEL	:		<u></u>			
	<u>Item</u>	: :		Description	1		
	Functioning	No existing		·			
	Components of Existing Water Supply Scheme	Comp	ponent	Specification	Condition	Year	Fund
		Pump for De	ep Well	<del></del> :	<del></del>		Ţ:::::
		Eng./Gen. fo		:	<del></del> !		<del></del>
	!				<del></del>		<del>-  </del>
	·		for Deep We	i	<u> </u>		
	* }-	Pump for Bo					1
	i L	Eng./Gen. fo		ļ			:
		Pump House	for Booster		i .		<u> </u>
		Booster Tan			<del>                                     </del>		<del>                                     </del>
	<del></del>	Distribution 1			<u>.</u>		
		<u> </u>			<u> </u>		
	: 	Pumping Ma			<u> </u>		
	<u> </u>	Distribution N					
	<u> </u>	Public Tapst	and		1 1		
		House Conn	ection		T		
	Observations R SOURCE PANEL	Composed o Saba and Al	f 5 Mamsas. Sana, which a	Two private wells are locate re used by both sites.	ated in the wadi	between A	sfal Bani
	ltem			Description			
	[Borehole Code]					10000	
	Child (LITER)	North	East			****	<del></del>
	Grid (UTM)	1573168	418538				
	·				_ <del>.</del>	. <u> </u>	****
	Grid (Lat/Lon)	Lat. N	Lon. E				
		14012142 21	44°14' 41,8"				100
	l 		T"	·			
	Present Condition (Pump Type)	Capped	L	<u>.</u>	<u>i i</u> .	<u> </u>	
		Capped	L <u>.</u>	<u>i</u>		11.50	
	Elevation (m)		L <u>.</u>				
	Elevation (m) Aquifer/Geological Description	Capped 1,812	<u>m</u> [				
	Elevation (m) Aquifer/Geological Description Year of Construction	Capped 1,812 2005	<u>m</u> [				
	Elevation (m) Aquifer/Geological Description Year of Construction Fund	Capped 1,812	<u>m</u> [				
	Elevation (m) Aquifer/Geological Description Year of Construction	Capped 1,812 2005	<u>m</u>				
	Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m)	2005 GARWSP 305	m				
	Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch)	Capped 1,812 2005 GARWSP	m				
	Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen	2005 GARWSP 305 8-5/8	m inch				
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	2005 GARWSP 305 8-5/8	m inch				
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	2005 GARWSP 305 8-5/8	m inch				
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	2005 GARWSP 305 8-5/8 107.4 210	m inch m m				
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	2005 GARWSP 305 8-5/8 107.4 210 6.3	m inch m m m	451/202			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	2005 GARWSP 305 8-5/8 107.4 210 6.3 71	m inch m m m g/min	4.5 L/sec			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	2005 GARWSP 305 8-5/8 107.4 210 6.3 71 0.714	m inch m m g/min L/s/m	4.5 L/sec			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	2005 GARWSP 305 8-5/8 107.4 210 6.3 71 0.714	m inch m m m g/min	4.5 L/sec			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	2005 GARWSP 305 8-5/8 107.4 210 6.3 71 0.714 43.4	m inch m m g/min L/s/m	4.5 L/sec			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	2005 GARWSP 305 8-5/8 107.4 210 6.3 71 0.714 43.4 8.40	m inch m m g/min L/s/m	4.5 L/sec			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	2005 GARWSP 305 8-5/8 107.4 210 6.3 71 0.714 43.4	m inch m m g/min L/s/m	4.5 L/sec			
	Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)  pH	2005 GARWSP 305 8-5/8 107.4 210 6.3 71 0.714 43.4 8.40	m inch m m g/min L/s/m	4.5 L/sec			

WAT	ER SUPPLY PLANNING PANEL							
No.	Item	!		Description	on		•	
	[Design Parameter]					A Transfer of		
	No. of Villages in Total	0						
	No. of Villages to be Covered	0						
/	Current Population (2006)	9,311					and the second	
	Design Population (2016)	11,884	ļ				SAFE.	
	Design Water Supply Rate	25	L/c/d	297 m <sup>3</sup> /day	- F-2000		: 'a l'.	
	Type of Work Required	New constru	ction				2.0	
	Required Facilities		onent	To be Constructed by	/ :	Notes		
	:	Pump for De	ep Well	Donor	New			
		Eng./Gen. fo		Donor	New			
		Pump House	for Deep We	Donor/Village	New			
	1	Pump for Bo	oster	Donor	New×	2		
	1	Eng./Gen. fo	r Booster	Donor	New×	2		
	!	Pump House	for Booster	Donor/Village	New×	2		
	:	Booster Tan	k	Donor	New ×	2		
	<u> </u>	Distribution 7	Fank .	Donor	New			
	1	Pumping Ma	in	Donor	New			
	•	Distribution I	vlain	Donor	New			
	<u> </u>	. azno rapotanta		Donor	New (f	New (for mosque, school and clinic		
		House Conn		Village	New			
	Accessibility		site is difficul It due to stee	t in rainy season, across p hillsides.	wadi from	ı I-02 Al Sana. Acc	ess inside d	
	Security	-						
	Observation							
PE	RATION AND MAINTENANCE PANEL							
lo.	Item	i		Description	оп			
	No. of Village Head (Sheikh)				o 1			
	No. of Tribe							
	Observation in Current Supply Scheme	!		!			i i	
	Mode of Ownership							
-	Mode of Management Entity						1	
	Organizational Management		1		İ			
	Technical Operation and Maintenance			-			į	
	Financial Management and Transparency		İ				1	
	Stakeholder Involvement / Responsibility Sha	aring					i	
	Community Contribution	!	 i	İ				
	Community Contracting-Out	!					i	
	Conflict Resolution	<del></del>	:	<u> </u>				
	Pro-Gender and Pro-Poor		<u> </u>		j		1	
	Remarks		1		:			

	DENTIFICATION PANEL	!			December			
0.	ltem	i I•			Description			
	<u> </u>	I-02	ļ				والمناح والمتعالم	
	Site Name	Al Sana			l <u>.</u>			<u>a Marian a</u>
	Sub-District (Uzlat)	!						
	District	Al Makhade	Γ				<u> </u>	7 1 4 4 4 4
	Governorate	lbb				1000		
	Olinetee	Latitude	Longitude				gally with each	1994
	Coordinates	:						
	Coordinates (Measured Location)	!						
	Annual precipitation (rainfall)	750	) mm				المستندات سندان لوسواته	
	<u> </u>	6,026				·		<del></del>
	Population Forecast (2016)	7,691		<u>!</u>		* * * * * * * * * * * * * * * * * * * *		
	No. of Village (Qariah) in Total	7,091		<u></u>				عرب پريسب سب
		: :				74 14	<u> </u>	<u> </u>
	No. of Village (Qariah) to be served		<u> </u>	·				
	: ⊣		ame	Рорг	ulation	Household	Coordinate	e (Lat / Lor
	Village (Qariah) in the Community	Najd Sahib			2,589			1
	vinago (danany in ano community	Madar			1,697	247	14°12′ 50″	44°15' 1
	7	Al San'a			1,740	253		
KIST	ING WATER SUPPLY SCHEME PANEL							
э.	Item	:			Description			
	Functioning	No existing					the state of the state of	10 gb ( <u> </u>
	Components of Existing Water Supply Scheme		ponent	Speci	fication	Condition	Year	Fund
		Pump for De	ep Well					
		Eng./Gen. fo	or Deep Well					
		Pump House	e for Deep We	)	1			
	<u> </u>	Pump for Bo	oster					<u> </u>
		Eng./Gen. fo	r Booster		!		<del></del>	İ
			e for Booster	 	!	Ţ		1
		Booster Tan						ļ
	·	Distribution 1			[			
	<u>i</u>	Pumping Ma	ain		L	÷		;
	<u>:</u>	Distribution I						!
	<u> </u>	Public Tapst				·		
		House Conn				:		<u> </u>
	<u> </u>			I	I			<u>!</u>
	Observations							
ATE	R SOURCE PANEL							
).	Item				Description			
	[Borehole Code]	: 				1	·.	
	O-I-I (UTM)	North	East		*		1.5	
	Grid (UTM)	1572955	417341					
	10.110.110	Lat. N	Lon. E					in the second of the
	Grid (Lat/Lon)		44°14' 01.5"					Salaharan dari
	Present Condition (Pump Type)	Capped	,	١.,	•	- · · · -		
	Elevation (m)	1,741	m	+				
	Aquifer/Geological Description	,		L				<u> </u>
	Year of Construction	2005		<del></del>				10 p. 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Fund	GARWSP	1			*		
	Depth (m)	272	' m				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			inch			<del></del>	<u> </u>	
		N-5/8		<u> </u>		•		
	Casing Diameter (inch)	8-5/8						
	Casing Diameter (inch) Screen		 m					S. S. 495.5
	Casing Diameter (inch) Screen Static Water Level (G.Lm)	36.1						
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	36.1 201	m					
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	36.1 201 104.9	m m	20	Lien			
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	36.1 201 104.9 62	m m g/min	3.9	L/sec			
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	36.1 201 104.9 62 0.037	m m g/min L/s/m	3.9	L/sec	8, 7, 6		
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	36.1 201 104.9 62 0.037 49.6	m m g/min L/s/m mS/m	3.9	L/sec	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	36.1 201 104.9 62 0.037 49.6 7.99	m m g/min L/s/m mS/m	3.9	L/sec			
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	36.1 201 104.9 62 0.037 49.6	m m g/min L/s/m mS/m	3.9	L/sec			
	Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	36.1 201 104.9 62 0.037 49.6 7.99	m m g/min L/s/m mS/m	3.9	L/sec			

WATE	R SUPPLY PLANNING PANEL	_		'				
No.	ltem				Description	n		
	[Design Parameter]				Y. A.	4		1
	No. of Villages in Total	0						
	No. of Villages to be Covered	0						
	Current Population (2006)	6,026						
	Design Population (2016)	7,691						
	Design Water Supply Rate	30	L/c/d	23	1 m <sup>3</sup> /day			
	Type of Work Required	New construc	tion					
	Required Facilities	Comp	onent	To be Co	nstructed by	1	Notes	
		Pump for Dee	ep Well	Donor		New		
		Eng./Gen. for	Deep Well	Donor		New		
		Pump House	for Deep We	e Donor/Villag	je	New		
		Pump for Boo	ster	Donor		New×2		
		Eng./Gen. for	Booster	Donor		New×2		
		Pump House	for Booster	Donor/Villag	je	New×2		
		Booster Tank	:	Donor		New × 2		
		Distribution T	ank	Donor		New		
		Pumping Mai	n	Donor		New		
		Distribution M	lain	Donor		New		
		Public Tapsta	ınd	Donor	-	New (for	mosque, school a	and clinic on
		House Conne	ection	Village		New		
	Accessibility	Approach to site is difficult, from top of mountain. Access inside of site is difficul steep hillsides.						
	Security	1						
	Observation	Since boreho	le is located	in wadi, need	d to consider	protection:	from flood.	
OPER	ATION AND MAINTENANCE PANEL							
No.	Item	1			Description	n		
	No. of Village Head (Sheikh)	;		F	r i i i i	· .		
	No. of Tribe		100		-:			L. A. A.
	Observation in Current Supply Scheme					į		
	Mode of Ownership					i i		
	Mode of Management Entity			i	İ	į	1	
	Organizational Management			İ				 
	Technical Operation and Maintenance				-	i		
	Financial Management and Transparency			T				
	Stakeholder Involvement / Responsibility Shar	ing				1		
	Community Contribution	1		<del>                                     </del>	1			
	Community Contracting-Out	1				!		
	Conflict Resolution							
	Pro-Gender and Pro-Poor				<del> </del>			
	Remarks			1	<u> </u>			i

	IDENTIFICATION PANEL							
No.	Item	I-03	1		Description			
	Code No.	Mamsa al M	argab		r			
	Sub-District (Uzlat)	Al Margab	urqub			•		
	District	AL Makhade	er · ·					
<u> </u>	Governorate	lbb						
	Coordinates	Latitude	Longitude				THE Y	
				<u> </u>	·		<u> </u>	<u> </u>
	Coordinates (Measured Location)							
	Annual precipitation (rainfall)	2,810	mm				<u>- 30 43 375</u>	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
	Population (2006) Population Forecast (2016)	3,587		<u> </u>				
	No, of Village (Qariah) in Total			<u> </u>				
	No. of Village (Qariah) to be served				. :			1
	1		ame	Popu	ılation	Household	Coordinate	e (Lat / Lon)
	i ⊣	Al Dar		<u>-</u>		<u></u>	ļ	
	4	Al Daki Al Marqab	<del></del> :	<u> </u>		· · · · · · · · · · · · · · · · · · ·	14°11' 11"	44°12' 57"
		Al Mady		<u> </u>			14 11 11	44 12 31
	-	Haronah				:	<u> </u>	<del> </del>
	- <del>)</del>	Al Mardam		i i		1		<u> </u>
	<del>-</del> ::	Hara					 	
]		Al Madrsah				!	<u> </u>	<u> </u>
	Village (Qariah) in the Community	Shab-Zaid	(amab	 			!	<u>;</u>
		Najd Al Mery Al Meryamal		<u> </u>		!	<u>:</u>	: :
-	i	Kolah Al Mei	rvmah				<u>:</u> i	
	-	Najd Ibbn Al	waan			250-300	14°11' 35"	44°12' 02"
		Al Hotetah						i
	'¦ -∤	Al Mashrag				:	!	
		Al Airtha						 <del> </del>
		Bait Massou Hathanah	a	 		J., , , , , , , , , , , , , , , , , , ,	ļ	<u> </u>
EXIST	ING WATER SUPPLY SCHEME PANEL	Hathanan		!			!	!
No.	ltem				Description			
-	Functioning	No existing				a j		
	Components of Existing Water Supply Scheme	Comp	onent		ication	Condition	Year	Fund
		Pump for De		Vertical	Engine		2006	Private, Tem
ļ		Eng./Gen. fo	for Deep We	) 	<u> </u>	<u>i</u>	<u> </u>	i !
		Pump for Bo		·II				!
		Eng./Gen. fo						!
		Pump House						i i
ļ		Booster Tan		  - ···	ļ	; <del> </del>		<u> </u>
		Distribution T Pumping Ma				i 	1	<u> </u>
<del> </del>	<u> </u>	Distribution			<u> </u> i			
<u> </u>		Public Tapst		! 	! 	1		<u> </u>
		House Conn				1		
	Observations							
	R SOURCE PANEL				D			
No.	Item	<u>i</u>	1		Description		<del> </del>	
	[Borehole Code]	North	J	J				
	Grid (UTM)	North 1568624	East 413955					
	. i	1000024	413833	t		1	1.0	<u> 18 (18 1 - 1870) b. b.</u>
1		1 of N	lon E					1 / MA 1 / MA 1 / A
	Grid (Lat/Lon)	Lat. N	Lon. E		·.			
		14°11′ 15.3"	44°12' 09.1"		s.			
	Present Condition (Pump Type)	14°11′ 15.3″ Working (ver	. 44°12' 09.1" tical)		·.			
	Present Condition (Pump Type) Elevation (m)	14°11′ 15.3"	. 44°12' 09.1" tical)			100		
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description	14°11' 15.3" Working (ver 1,648	44°12' 09.1" tical) m					
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction	14°11′ 15.3″ Working (ver	44°12' 09.1" tical) m					
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description	14°11′ 15.3″ Working (ver 1,648	44°12' 09.1" tícal) m					
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch)	14°11' 15.3" Working (ver 1,648 2005 GARWSP	44°12' 09.1" tícal) m					
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen	14°11' 15.3" Working (ver 1,648 2005 GARWSP 78	44°12' 09.1" tical) m m inch					
	Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	14°11' 15.3" Working (ver 1,648 2005 GARWSP 78 8	44°12' 09.1" tical) m m inch					
	Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	14°11' 15.3" Working (ver 1,648 2005 GARWSP 78 8 47.78 54.35	tical) m m inch m					
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	14°11' 15.3" Working (ver 1,648 2005 GARWSP 78 8 47.78 54.35 6.57	d4°12' 09.1" tical) m m inch m m	16	User			
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	14°11' 15.3" Working (ver 1,648  2005 GARWSP  78  47.78 54.35 6.57 25	d4°12' 09.1" tical) m m inch m m g/min	1.6	L/sec			
	Present Condition (Pump Type) Elevation (m) Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	14°11' 15.3" Working (ver 1,648  2005 GARWSP 78 47.78 54.35 6.57 25 0.243	d4°12' 09.1" tical) m m inch m m	1.6	L/sec			
	Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description Year of Construction  Fund Depth (m)  Casing Diameter (inch) Screen  Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	14°11' 15.3" Working (ver 1,648  2005 GARWSP 78 47.78 54.35 6.57 25 0.243 69.4 7.12	m inch m g/min L/s/m mS/m	1.6	L/sec			
	Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description Year of Construction  Fund Depth (m)  Casing Diameter (inch) Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min) Specific Capacity EC (mS/m) pH  Temperature ('C)	14°11' 15.3" Working (ver 1,648  2005 GARWSP 78 8 47.78 54.35 6.57 25 0.243 69.4	m inch m g/min L/s/m mS/m	1.6	L/sec			
	Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description Year of Construction  Fund Depth (m)  Casing Diameter (inch) Screen  Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	14°11' 15.3" Working (ver 1,648  2005 GARWSP 78 47.78 54.35 6.57 25 0.243 69.4 7.12	m inch m g/min L/s/m mS/m	1.6	L/sec			

WATE	R SUPPLY PLANNING PANEL				
No.	ltem	1	•	Descripti	on
	[Design Parameter]	,			
	No. of Villages in Total	0			
	No. of Villages to be Covered	0			
	Current Population (2006)	2,810		* ***	
	Design Population (2016)	3,587			
	Design Water Supply Rate	40	L/c/d	143 m <sup>3</sup> /day	
	Type of Work Required	New construc	ction		
	Required Facilities	Comp	onent	Constructed by	Notes
	<del></del>	Pump for De	ep Well	Donor	New
		Eng./Gen. for	r Deep Well	Donor	New
				Donor/Village	New
		Pump for Boo		Donor	New
		Eng./Gen. for		Donor	New
	<del></del>	Pump House		Donor/Village	New
		Booster Tank		Donor	New
	i	Distribution T		Donor	New
		Pumping Mai		Donor	New
		Distribution N		Donor	New
	· · · · · · · · · · · · · · · · · · ·	Public Tapsta		Donor	New (for mosque, school and clinic on
	<u></u>	House Conn		Donor	New
	Accessibility	Difficult in rai	ny season, a	ccess through wadi	
	Security	<u> </u>			
	Observation				
<b>OPER</b>	ATION AND MAINTENANCE PANEL				
No.	i Item	<u> </u>	· · · · · · · · · · · · · · · · · · ·	Descripti	on
	No. of Village Head (Sheikh)		<u> </u>	`. 	
ļ	No. of Tribe				
	Observation in Current Supply Scheme			!	
	Mode of Ownership	•			
	Mode of Management Entity	:			
ļ	Organizational Management				
ļ	Technical Operation and Maintenance			<u>:</u>	
	Financial Management and Transparency	<u>.</u>			
	Stakeholder Involvement / Responsibility Shar	ing		!	
	Community Contribution	-			
	Community Contracting-Out	<u>i</u>		j	
	Conflict Resolution Pro-Gender and Pro-Poor				
	Remarks			<del>                                     </del>	
	Licition	'		<u> </u>	<u> </u>

lo.	DENTIFICATION PANEL			B. 12		,	
	ltem			Description			*
	Code No.	I-04	<u> Lai</u>				· · · · · · ·
	Site Name	Al Jahlah & A	Al Meshraq			<u> </u>	· ·
	Sub-District (Uzlat)						
	District	lbb			T 14.5		
	Governorate	lbb			11. 11.	American State	(4.)
	<u></u>	Latitude	Longitude	F 220			
	Coordinates	Luttudo					1000
	Coordinates (Measured Location)				speciel Davidae	<del></del>	
	Annual precipitation (rainfall)	4.000					स्तित्वसम्बद्धाः स्थानः स्तित्वसम्बद्धाः स्थानः
	the state of the s	1,000		. <u> </u>		<u> </u>	1 4004 See
	Population (2006)	10,467			<del>: :</del>		
	Population Forecast (2016)	13,359				<del> </del>	<u>a willia da a fil</u>
	No. of Village (Qariah) in Total					<u> </u>	
	No. of Village (Qariah) to be served						<u> </u>
		Na	ame	Population	Household	Coordinate	(Lat / Lon
	1	Al Jahlah		1,700	211		
	7	Al Nafesh		450	69		
	<del>-</del>	Al Sulq		412	77		
	Village (Qariah) in the Community	Al Jah	<del>                                     </del>	1,121	139		
—	4	Al Meshraq		1,994	220		
		i	-	1,815	186		
		Thy Ajzab					
		Al Jasha		2,975	307	l	
	ING WATER SUPPLY SCHEME PANEL			B : "			
o	ltem			Description			
	Functioning	No existing			<u> </u>	· ;	
	Components of Existing Water Supply Scheme		ponent	Specification	Condition	Year	Fund
		Pump for De		i •			
		Eng./Gen. fo					
			for Deep We				
		Pump for Bo		· · · · · · · · · · · · · · · · · · ·			
	<u></u> .	Eng./Gen. fo					
			e for Booster				
		Booster Tan		· · · · · · · · · · · · · · · · · · ·			
		Distribution 7		<u> </u>			
	<u> </u>	Pumping Ma					
		Distribution I					
		Public Tapst		i			
	<del> </del>		lection !				
		House Conn	- iootion				
	Observations	House Conn					
	R SOURCE PANEL	House Conn		D		:	_
	R SOURCE PANEL Item	House Conn		Description			-
	R SOURCE PANEL		4	Description			
	R SOURCE PANEL  Item  [Borehole Code]	North	East	Description			
	R SOURCE PANEL Item	North 1540017	East 5418783	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)	North 1540017 Lat. N	East 5418783 Lon. E	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	North 1540017 Lat. N 13°55' 44.8"	East 5418783	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	North 1540017 Lat. N 13°55' 44.8" Capped	East 5418783 Lon. E 44°14' 53.4"	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	North 1540017 Lat. N 13°55' 44.8"	East 5418783 Lon. E 44°14' 53.4"	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	North 1540017 Lat. N 13°55' 44.8" Capped	East 5418783 Lon. E 44°14' 53.4"	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)	North 1540017 Lat. N 13°55' 44.8" Capped	East 5418783 Lon. E 44°14' 53.4"	Description			
	R SOURCE PANEL  Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description	North 1540017 Lat. N 13°55' 44.8" Capped 1,803	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	North 1540017 Lat. N 13°55' 44.8" Capped 1,803	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8	East 5418783 Lon. E 44°14' 53.4"	Description			
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8 14.9 110.2 95.3	East 5418783 Lon. E 44°14' 53.4"				
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8 14.9 110.2 95.3	East 5418783 Lon. E 44°14' 53.4" m inch m m g/min	Description  4.1 L/sec			
	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8 11.0.2 95.3 65 0.043	East 5418783 Lon. E 44°14' 53.4" m				
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8 14.9 110.2 95.3 65 0.043 64.6	East 5418783 Lon. E 44°14' 53.4"  m inch m g/min L/s/m mS/m				
(ATE	Item [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	North 1540017 Lat. N 13°55' 44.8" Capped 1,803 2005 GARWSP 305 8-5/8 11.0.2 95.3 65 0.043	East 5418783 Lon. E 44°14' 53.4"  m m inch m g/min L/s/m mS/m				

WATE	R SUPPLY PLANNING PANEL						
No.	' Item			Descriptio	n		
	[Design Parameter]		-		. 9"	rii ( ) Limbilia ( ) (	
	No. of Villages in Total	. 0				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	No. of Villages to be Covered	0					
	Current Population (2006)	10,467					
	Design Population (2016)	13,359		*	7 75 575		
	Design Water Supply Rate	25	L/c/d	334 m³/day			
	Type of Work Required	New constru	ction				
	Required Facilities	•	onent	To be Constructed by		Notes	
		Pump for De	ep Well	Donor	New		
		Eng./Gen. fo	r Deep Well	Donor	New		
	<u> </u>	Pump House	for Deep We	Donor/Village	New		
	<u></u>	Pump for Bo	oster	Donor	New x 2		
		Eng./Gen. fo	r Booster	Donor	New x 2		
	i	Pump House	e for Boosler	Donor/Village	New		
		Booster Tan	k	Donor	New		
		Distribution	Tank	Donor	New×2		
		Pumping Ma	in	Donor	New x 2		
-		Distribution I	Main	Donor	New x 2		
	<u> </u>	Public Tapst	and	Donor	New (for	mosque, school	and clinic onl
		House Conn	ections	Village	New		
	Accessibility Security	Approach to road	site is good,	next to paved road, but a	ccess in site	through rugged	mountain
	Observation						
ADED	ATION AND MAINTENANCE PANEL	ļ					
No.	Item	i	-	Description			
INO.	No. of Village Head (Sheikh)	<u> </u>		Возоприо			427 S. S. S. S. S. S.
	No. of Tribe	<u> </u>		1.00.00			Johan Hawaii A
	Observation in Current Supply Scheme	·		T		The Winds	
	Mode of Ownership	<u> </u>			-		1
	Mode of Management Entity	<del>.</del>	<u> </u>	<del> </del>		<del>-  </del>	<del> </del>
	Organizational Management		<del> </del>			-	!
····	Technical Operation and Maintenance		· ——	1			
	Financial Management and Transparency	<u> </u>	ļ				<u> </u>
	Stakeholder Involvement / Responsibility Shar	ina			<u> </u>		<u> </u>
	Community Contribution	ing			:		<del> </del>
	Community Contribution  Community Contracting-Out	<u> </u>		· · · · · · · · · · · · · · · · · · ·	1		<del> </del>
	Conflict Resolution	<del>                                     </del>					
	Pro-Gender and Pro-Poor						<u> </u>
				· -	<u> </u>		
	Remarks		<u> </u>	<u>'                                    </u>	II.		1

	DENTIFICATION PANEL	!			Description	1	
No.	Code No.	T-01				· · · · · · · · · · · · · · · · · · ·	2.35
. —	Site Name	Muayteeb	<u> </u>		[		
	Sub-District (Uzlat)	†-· •					
	District	Mawiyah					
	Governorate	Taiz				<u></u>	
	Coordinates	Latitude	Longitude			<u> </u>	
		·	<u> </u>	<u> </u>	·		
	Coordinates (Measured Location)		mm				
	Annual precipitation (rainfall)	2,432					
	Population (2006)	3,104		ļ	·		
	Population Forecast (2016)  No. of Village (Qariah) in Total	0,101				· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	No. of Village (Qariah) to be served						
	1		me	Рори	lation	Household	Coordinate (Lat / Lon)
	Village (Qariah) in the Community	Al Muayteeb			2,432	304	
<b>EXIST</b>	NG WATER SUPPLY SCHEME PANEL				D		
No.	<u>Item</u>	NITTE AND ARTICLES	-1 ·		Description	<u> </u>	<del></del>
	Functioning Notes Symply Schomo	Non-function	onent	Specif	ication	Condition	Year Fund
ı———	Components of Existing Water Supply Scheme	Pump for De	en Well	Submersible		Condition	1985 Japan
	· · · · · · · · · · · · · · · · · · ·	Generator fo	r Deen Well	20HP	Jianghuai	<del>                                     </del>	2004
	<del> </del>	Pump House	for Deep We		   +		
		Pump for Bo		-	i ·		
	· · · · · · · · · · · · · · · · · · ·	Eng./Gen. fo	r Booster				į.
		Pump House	for Booster	T			· · · · · · · · · · · · · · · · · · ·
		Booster Tan	k	<u> </u>	:		
		Distribution 1		Steel panel	100m3 elev		1985 Japan
		Pumping Ma		SGP	ļ	Removed	1985 Japan
		Distribution Public Tapst		SGP		Removed	1985 Japan
		House Conn		All houses	·	<del></del>	
	<u> </u>	lananese de	ant project C	<u>jAii nouses</u> Iriginal horebo	le dried un i	in 1995, but whe	en it rains, some water
	Oh	can be numr	ant project. C	na nrivate wel	ll of sheikh d	rilled in 2004. O	riginal borehole
	Observations	donerator in	etallad in 198	ng private wor 5 by Japan, bi	ut hurned ar	nd replaced in 20	104
UNATE	R SOURCE PANEL	generator in	stalled in 150	o by capan, b	at barried ar	ia repiacea in ze	
No.	ltem	1			Description	n	
140.	[Borehole Code]	T-01 New					
	17	North	East	1			
	Grid (UTM)	1510149	415656	<u> </u>			
	Grid (Lat/Lon)	Lat. N	Lon. E				
	1		44°13' 12.6'	<u>'L</u> :			<u> </u>
	Present Condition (Pump Type)	Capped		· r			<del></del>
	Elevation (m)	1291	<u> </u>	J		·	2 ×
	Aquifer/Geological Description	2005	.1				g. 1.1.2 (1.1.2.4)
	Year of Construction Fund	GARWSP	`L	1			<u></u>
	Depth (m)	300	m				
	Casing Diameter (inch)		inch	T	T		
	Screen		64m-?, 194m	-248m			
	Static Water Level (G.Lm)	157.24			<u> </u>	<u> </u>	
	Dynamic Water Level (G.Lm)	200					
	Drawdown (m)	42.76					
	Discharge (g/min)		g/min	0.0	L/sec		
	Specific Capacity		_L/s/m  mS/m	<u> </u>			
l	EC (mS/m)	7.22			- · · · · · · · · · · · · · · · · · · ·		
	Temperature ('C)	61.1					
	Remarks	Ţ	·	· · · · · · · · · · · · · · · · · · ·			
	[Borehole Code]	T-01/2 Old					
	Grid (UTM)	North	East	1			and the state of the state of
	One (Other)		<u></u>	ļ			
l	Grid (Lat/Lon)	Lat. N	Lon. E				
		13°39' 47"		g Submoraible	nump		the state of the s
	Present Condition (Pump Type) Elevation (m)	vvorking only		s Submersible	- Fraitih	**:	
	Aquifer/Geological Description	1,230	• • • • • • • • • • • • • • • • • • • •	<u> </u>			
	Year of Construction	1985?	Ţ				
	Fund	Japan					
	Depth (m)		m			<del></del>	
	Casing Diameter (inch)		inch				
	Screen						<del></del>
	Static Water Level (G.Lm)	<u> </u>	m			· ·	
<b> </b>	Dynamic Water Level (G.Lm)	<del>:</del>	m				in the second of the second of
	Drawdown (m)	-ŀ	m g/min	0.0	L/sec		
	Discharge (g/min) Specific Capacity	.	_g/min L/s/m	·  · <del>- 0.0</del>	1360	<del></del>	
	EC (mS/m)	<del></del>	mS/m		. —	<u> </u>	
	pH		1				
	Temperature ('C)	1					
	Remarks	·					

# 12.7 Village Profile of Sites in Taiz Governorate WATER SUPPLY PLANNING PANEL

VATER SUPPLY PLANNING PANEL  Io. Item	:		Descrip	tion				
[Design Parameter]			<u> </u>		3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
No. of Villages in Total	0	T .				1 80 (3)		
No. of Villages to be Covered	0							
Current Population (2006)	2,432					- 45 A		
Design Population (2016)	3,104					2.72		
Design Water Supply Rate		L/c/d	m³/day	1		700		
Type of Work Required			· · · · · · · · · · · · · · · · · · ·			- No. 1		
Required Facilities	Com	onent	To be Constructed	by	Notes			
	Pump for De	ep Well	Donor	New				
!	Eng./Gen. fo	r Deep Well	Donor	New				
	Pump House	for Deep We	Donor/Village	New				
	Pump for Bo							
i	Eng./Gen. fo							
	Pump House							
	Booster Tan							
	Distribution	Tank		<u>i</u>				
	Pumping Ma	in	Donor	New				
	Distribution		Donor	New				
	Public Tapsi		Donor	New (for m	iosque, school an	d clinic o		
	House Conn		Village	i				
Accessibility	Good, near	paved road, b	ut access between villa	ages through wa	adi			
Security	· · · · · · · · · · · · · · · · · · ·							
Observation								
PERATION AND MAINTENANCE PANEL								
o. Item			Descrip	tion				
No. of Village Head (Sheikh)	1		<u> </u>	<u> </u>	The Part has	<u> </u>		
No, of Tribe	1		ump) for borehole was					
Observation in Current Supply Scheme	where the submersible pump was installed.  Pump unit was replaced by GARWSP in 1989. However, the replaced one also broken down soon in the same year, possibly because of the same reason for the malfunction of first pump unit.  Private well (borehole) was constructed in 2005 for irrigation purpose in fifty (50) meters away from the borehole constructed in 1984. The private well has depth of 400m with go yield capacity, equipped with vertical pump unit. However, water yielded from the borehole is hot and not suitable for irrigation. The private well is currently providing water for the community for domestic use at free of charge, while selling water for water truck (water venders) at YR 400 per tank. The pump unit is installed and operation cost (fuel) is born the well owner.  There was no legal ownership arrangement in the scheme management.							
Mode of Ownership					igomoni.			
Mode of Management Entity	Any handing-over document and agreement was not prepared.  The supply scheme during its operation had been managed by the following three (3) persons appointed by community authority, former GARWES and former Local Council; a Manager, b) Financial Manager/Accountant, and c) Operator/Watchman.							
Organizational Management								
Technical Operation and Maintenance	Pump unit fo	r borehole wa	cheme management w					
•			cheme management was replaced by the form		tead of the comm	unity.		
· · · · · · · · · · · · · · · · · · ·	Tariff structu		<del>_</del>	ner GARWE, ins		unity.		
· · · · · · · · · · · · · · · · · · ·	Tariff structu	ire:	as replaced by the form YR 20-40/households	ner GARWE, ins		unity.		
Financial Management and Transparency	Tariff structu Water tariff o	ire: charge is not	as replaced by the form YR 20-40/households metered.	ner GARWE, ins /month in mid-la		nunity.		
· · · · · · · · · · · · · · · · · · ·	Tariff structu Water tariff of Water through	ire: charge is not i gh a public sta	as replaced by the form YR 20-40/households netered. and was provided at fre	ner GARWE, ins /month in mid-la ee of charge.	ate 80s.	nunity.		
	Tariff structu Water tariff of Water throug Income and	ire: charge is not i gh a public sta expenditure h	as replaced by the form YR 20-40/households netered. and was provided at fre and been balanced dur	ner GARWE, inse/month in mid-late ee of charge. ing the scheme	ate 80s. was operated.	ounity.		
· · · · · · · · · · · · · · · · · · ·	Tariff structu Water tariff of Water throug Income and Former GAF	re: charge is not gh a public sta expenditure h RWE and Loca it body (mana	as replaced by the form YR 20-40/households metered. and was provided at fre had been balanced dur al Council involved in a gement members).	ner GARWE, ins s/month in mid-la ee of charge. ing the scheme ppointment of c	was operated.	nunity.		
Financial Management and Transparency	Tariff structu Water tariff of Water throug Income and Former GAF management Current She	ire: charge is not igh a public state expenditure haw and Loca it body (mana likh of the con	as replaced by the form YR 20-40/households metered. and was provided at free and been balanced dur al Council involved in a gement members). munity is Director of F	ner GARWE, insoloner GARWE, insolone in mid-late of charge. Ing the scheme oppointment of control o	was operated. ommunity-based	nunity.		
Financial Management and Transparency Stakeholder Involvement / Responsibility Shari	Tariff structu Water tariff of Water throug Income and Former GAF management Current She	ire: charge is not igh a public state expenditure haw and Loca it body (mana likh of the con	as replaced by the form YR 20-40/households metered. and was provided at fre had been balanced dur al Council involved in a gement members).	ner GARWE, insoloner GARWE, insolone in mid-late of charge. Ing the scheme oppointment of control o	was operated. ommunity-based	nunity.		
Financial Management and Transparency	Tariff structu Water tariff of Water throug Income and Former GAF management Current She No commun	ire: charge is not igh a public state expenditure haw E and Loca it body (mana ikh of the contibutio	as replaced by the form YR 20-40/households metered. and was provided at free and been balanced dur al Council involved in a gement members). munity is Director of F	ner GARWE, insolone of charge.  Sing the scheme of charge of charge.  Sing the scheme of charge	was operated. ommunity-based	sunity.		
Financial Management and Transparency Stakeholder Involvement / Responsibility Shari Community Contribution	Tariff structu Water tariff of Water throug Income and Former GAF management Current She No commun	ire: charge is not igh a public state expenditure haw E and Loca it body (mana ikh of the contibutio	as replaced by the form YR 20-40/households metered. and was provided at free and been balanced dur al Council involved in a gement members). munity is Director of Finn was provided in exist	ner GARWE, insolone of charge.  Sing the scheme of charge of charge.  Sing the scheme of charge	was operated. ommunity-based	nunity.		
Financial Management and Transparency Stakeholder Involvement / Responsibility Shari Community Contribution Community Contracting-Out	Tariff structu Water tariff of Water throug Income and Former GAF of management Current She No commun Willingness N/A	ire: charge is not on a public state expenditure heave the expenditure heave the contribute in the contribute is contribute in the contrib	as replaced by the form YR 20-40/households metered.  and was provided at free and been balanced dural Council involved in a gement members).  amunity is Director of Firm was provided in exist in future project is observed.	ner GARWE, insolone of charge.  Sing the scheme of charge of charge.  Sing the scheme of charge	was operated. ommunity-based	nunity.		
Financial Management and Transparency Stakeholder Involvement / Responsibility Shari Community Contribution	Tariff structu Water tariff of Water throug Income and Former GAF of managemen Current She No commun Willingness N/A No commun Water throug	ire: charge is not a public state of the condition of the condition of the condition of the condition contribute in the conflict cases of a public state of the condition of the conflict cases of the cases of the conflict cases of the cases of the case of the confl	as replaced by the form YR 20-40/households metered. and was provided at fre al Council involved in a gement members). munity is Director of F n was provided in exist n future project is obse	ner GARWE, insider of charge.  The of charge of the scheme of charge of charge.  The of charge o	was operated, ommunity-based in Local Council, istruction.			
Financial Management and Transparency  Stakeholder Involvement / Responsibility Shari  Community Contribution  Community Contracting-Out  Conflict Resolution	Tariff structu Water tariff of Water throug Income and Former GAF of management Current She No commun Willingness N/A No commun Water throug not afford ho	ire: charge is not igh a public state expenditure if RWE and Localit body (manalikh of the contribute if contribute if the conflict case if a public state if the connection of the connection of the connection is the connection of the connection o	as replaced by the form YR 20-40/households metered. and was provided at fre al Council involved in a gement members). munity is Director of F n was provided in exist n future project is obse	ner GARWE, insider of charge.  The of charge of charge of charge of charge of charge of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge manager of charge of charge manager of charge manager of charge manager of charge manager of charge of charge manager of charge of charge manager of charge of char	was operated, ommunity-based in Local Council, istruction,	who could		

lo.	DENTIFICATION PANEL				Description			
	Code No.	T-02						
	Site Name	Bani Al Suror				<u> ¥                               </u>		<u>. 2000 - 1</u>
	Sub-District (Uzlat)						<del> </del>	syd I mark a leading
	District	Al Ma'afer						
	Governorate	Taiz Latitude Longit	i abut		<u> </u>			
	Coordinates	Latitude	luge	<del></del>		· · · · · · · · · · · · · · · · · · ·		
		· <del></del>						
	Coordinates (Measured Location) Annual precipitation (rainfall)	550 mm					The state of the s	The q
	Population (2006)	9,385	-	-	-			The second
	Population Forecast (2016)	11,978						
	No. of Village (Qariah) in Total	6				-:		, <u>, ,(</u> 4, 1 ° )
	No, of Village (Qariah) to be served	6				~ · · · · · · · · · · · · · · · · · · ·		To Park
	No. or village (Qanari) to be served	Name	<u> </u>	Popu	lation	Household	Coordinate	(Lat / Lon)
_		Bani Suror		··	1,525		13°22' 07"	43°59' 04
_		Al Suliyah		=	2,170			
	· · · · · · · · · · · · · · · · · · ·	Wadi Mahjar	i		1,008		13°22' 49"	43°57' 55
	Village (Qariah) in the Community	Athkar			2,499	1,043	13°23' 13"	43°58′ 5′
		L	· — i		1,546	i İ	13°23' 13"	43°56' 59
		Al Sharaf						43°58' 04
		Al Souk (Al Nasham	ia)		637		13°23' 13"	43 58 04
(IST	ING WATER SUPPLY SCHEME PANEL							
).	Item				Description			
	Functioning	Functional	🔟		<u> </u>		· .	
-	Components of Existing Water Supply Sche	me Component	. ,		fication	Condition	Year	Fund
		Pump for Deep Well	i (Bir 1	Submersible		<u>:</u>		Village
		Generator for Deep			Meco alled s	pa		Village
		Pump House for Dec						GAREW
-		Pump for Deep Well			Al-Kohali	Seasonal		GAREW
		Engine for Deep We			BGICEP			GAREW
		Pump House for Dec				L		GAREW
_		Pump for Deep Well			GRUNDFOS			GARWSF
	<u> </u>	Engine for Deep We			John Deere			GARWSF
		Pump House for De	ep We	RC				GARWSF
		Pump for Booster No	0.1	Horizontal _	HM	1		GARWSF
•		Engine for Booster I			IVECO			GARWSF
_	· · · · · · · · · · · · · · · · · · ·	Pump House for Boo	oster h	RC		!		GARWSF
		Pump for Booster N		Horizontal	НМ			Village
	<u> </u>	Engine for Booster I			Technodrive	4		Village
	<u> </u>	Pump House for Bo	oster N	RC	T			Village
	<del>                                     </del>	Booster Tank No.1		RC	25m3			GAREW
		Booster Tank No.2	-	RC	50m3			GARWSF
	· j —— · · · · — · · · · · · · · · · · ·	Sub-Main Tank No.	1	RC	25m3	1	1994	GAREW
		Sub-Main Tank No.2	2	RC	150m3			GAREW
		Distribution Tank No		RC	150m3			GAREW
		Distribution Tank No		RC	100m3			GARWSF
	<del> </del>	Pumping Main		SGP			1994	GAREW
	· i — - · · — · · · — · · · · · · · · · · ·	Distribution Main		SGP	1		1994	GAREW
	<u> </u>	Public Tapstand		16 for mosq	ues, 4 for sch	ools, all with	meters	
	<del></del>	House Connection		1 499 with n	neters	T	T	
		If resident used wat	er for it	rrigation, he	is fined YR50	0/m <sup>3</sup> +penalty	and supply is	stopped.
	Observations	Residents buy wate	er for im	igation.				_
ΑП	ER SOURCE PANEL							
ο.	Item				Description			
	[Borehole Code]	T-01/1 Bir 1						<u> </u>
		North Ea	ast			9.00		
	Grid (UTM)	<u> </u>				<u></u>	·	
	Crid (Lat/Lon)		n.E					en 41 Europe
	Grid (Lat/Lon)	13°22' 51.9" 43°58	00.7"	<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	Present Condition (Pump Type)	Working Subme	ersible	pump				
	Elevation (m)	1,271 m		l	· <u>· · · · · · · · · · · · · · · · · · </u>		<u> </u>	
	Aguifer/Geological Description							
_	Year of Construction	1982			_			<u> </u>
	Fund	Iraq (Drilled by NGC	0)				<u></u>	
	Depth (m)	230 m					<u> </u>	<u> </u>
		inch		l			<u></u>	
	Casing Diameter (Inch)							
	Casing Diameter (inch)			I				
	Screen	183.9 m						1 1/3/17
	Screen Static Water Level (G.Lm)	183.9 m 186.4 m						
	Streen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)							
	Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	186.4 m 2.5 m		2.	6 L/sec			
	Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min)	186.4 m 2.5 m 41 g/min		2.	6 L/sec			da di
	Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	186.4 m 2.5 m 41 g/min 2.04 L/s/m		2.	6 L/sec			in di
	Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	186.4 m 2.5 m 41 g/min 2.04 L/s/m 113.3 mS/m		2.	6 L/sec			
	Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	186.4 m 2.5 m 41 g/min 2.04 L/s/m		2.	6 L/sec			te di c

[Borehole Code]	T-02/2 Bir 2		<del></del>		- · · · · · ·	The second secon
Grid (UTM)	North	East				
<u> </u>		<sub> </sub>			<u> </u>	
: :Grid (Lat/Lon)	Lat. N	Lon. E 43°57' 39.2"				
<u> </u>			Vertical nume	· · · · · · · · · · · · · · · · · · ·		<u></u>
Present Condition (Pump Type)	Working (sea		Vertical pump			erga <del>r – trage</del>
Elevation (m)	1,250	<u>m</u>	<u> </u>			<u>to sea toki o vao</u>
Aquifer/Geological Description					· · · · · · · · · · · · · · · · · · ·	
Year of Construction	1984			***		
Fund	LCCD		<u> </u>			
Depth (m)	60	m				
Casing Diameter (inch)		inch		1 1		
Screen						
Static Water Level (G.Lm)		m				
Dynamic Water Level (G.Lm)		m				
Drawdown (m)		m	<del></del>			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Discharge (g/min)	<u> </u>	g/min	0.0 L/sec	<del></del>	ىمىد ، ئەسىدە مېد	
Specific Capacity	i ··-	L/s/m	5,5 27000			
	400.0	mS/m	· · · · · · · · · · · · · · · · · · ·		<u>ing pagamatan di</u> Tabupatèn Kabupatèn	
EC (mS/m)						
pH	7.19	<u> </u>	<u> </u>		8 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 101
Temperature ('C)	28.8	<u>L : </u>				
Remarks	Seasonal		,			
[Borehole Code]	T-02/3 Bir 3			<u> </u>		
<u>i</u>	North	East		100		Park Call Racks
Grid (UTM)			· ·			
<del>                                     </del>	Lat. N	Lon. E			, , , , ,	
⊣ Grid (Lat/Lon)		43°58' 25.6"	·  -			
Present Condition (Pump Type)	Working	Submersible	PUMP	·		1 [1875年 47]
			hamb			
Elevation (m)	1,209	<u>m</u>	l			· · · · · · · · · · · · · · · · · · ·
Aquifer/Geological Description						
Year of Construction	2001			· · · · · · · · · · · · · · · · · · ·		
Fund	GARWSP					
Depth (m)	251					
Casing Diameter (inch)	8	inch				
Screen						
Static Water Level (G.Lm)	117.62					
Dynamic Water Level (G.Lm)	138.73				<u></u>	
Drawdown (m)	21.11			<u>:</u> :		A STATE OF THE STA
			0.0 1.1	111		
Discharge (g/min)		g/min	2.6 L/sec			
Specific Capacity		L/s/m		<del></del>		
EC (mS/m)	; ·	mS/m	<u> </u>	1 1 1 1	1 2	, na a kadina katawa jining <del>walio katawa 1976</del>
pH	7.42		<u> </u>		<u> </u>	
Temperature ('C)	39.2			·		
Remarks						
[Borehole Code]	T-02/4 Bir 4				:	
<u> </u>	North	East			····	
Grid (UTM)	1477678	388826				
···-	<u> </u>		<u> </u>	<del></del>		
Grid (Lat/Lon)	Lat. N	Lon. E			100	we was
		43°58′ 24,2"			<u> </u>	
Present Condition (Pump Type)	Capped		Г			
Elevation (m)	1226	m			ran and a	<u> </u>
Aquifer/Geological Description	1998	[			7.	
	1 1990			and the second	- 1	
Aquifer/Geological Description	Village		· ·			
Aquifer/Geological Description Year of Construction Fund	Village				100	一种。 一个人,我就是一个人的人的人的人的人
Aquifer/Geological Description Year of Construction Fund Depth (m)	Village 190					
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch)	Village 190	m inch				
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen	Village 190	inch				
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm)	Village 190 8 137.2	inch m				1
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	Village 190 8 137.2 139.5	m m				
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	Village 190 8 137.2 139.5 2.3	m m m				
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm)	Village 190 8 137.2 139.5 2.3	m m	5.4 L/sec			
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m)	Village 190 8 137.2 139.5 2.3 86	m m m	5.4 L/sec			
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	Village 190 8 137.2 139.5 2.3 86 2.348	m m g/min L/s/m	5.4 L/sec			
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity EC (mS/m)	Village 190 8 137.2 139.5 2.3 86 2.348 98.8	m m m g/min L/s/m mS/m	5.4 L/sec			
Aquifer/Geological Description Year of Construction Fund Depth (m) Casing Diameter (inch) Screen Static Water Level (G.Lm) Dynamic Water Level (G.Lm) Drawdown (m) Discharge (g/min) Specific Capacity	Village 190 8 137.2 139.5 2.3 86 2.348	m m m g/min Us/m	5.4 L/sec			

_	R SUPPLY PLANNING PANEL	į	Descript	tion				
No.	Item	<u>:</u>						
	[Design Parameter]	ļ						
	No. of Villages in Total	6						
	No. of Villages to be Covered	9,385						
	Current Population (2006)	<del></del>	<u> </u>					
	Design Population (2016)	11,978	47031					
	Design Water Supply Rate	40 L/c/d	479 m³/day					
	Type of Work Required	Rehabilitation	Construction	Notes				
	Required Facilities	Component Pump for Deep Well (B		Replace				
				Replace				
	<u> </u>	Eng./Gen. for Deep W						
		Pump for Deep Well (E		Replace				
	<u> </u>	Eng./Gen. for Deep W	:	Replace				
		Pump for Deep Well (E		New				
	· · · · · · · · · · · · · · · · · · ·	Eng./Gen. for Deep W		New				
	<del></del>	Pump House for Deep		New				
	· 	Pump for Booster No.1		Replace				
_		Eng./Gen. for Booster		Replace				
	: 	Pump for Booster No.2		Replace				
		Eng./Gen. for Booster		Replace				
	·	Pump for Booster	Donor	New				
		Eng./Gen. for Booster	Donor	New				
		Pump House for Boos	·	New				
		Booster Tank	Donor	New				
		Distribution Tank		N				
		Pumping Main	Donor	New (from new deep well bir 4)				
	<u> </u>	Distribution Main						
		Public Tapstand						
	<u> </u>	House Connection		<u> </u>				
	Accessibility	<u> </u>						
	Security							
	Observation							
	ATION AND MAINTENANCE PANEL		Deserie	tion				
No	ltem		Descrip	AROTT				
	No. of Village Head (Sheikh) No. of Tribe	1 .	<del></del>					
	No. of Tribe	Pump unit for borehole China, is not repaired	due to unavailability of spa					
	Observation in Current Supply Scheme	Bani-Surwr is one of village in the served area/community.  Water shortage is observed. In some area, particularly in Bani-Surwr, the community depends on water truck, which costs YR 1,600/m3.  The scheme covering area of 6km x 7km.						
		Legal ownership is ves	sted to the community-bas	ed organization with written agreement				
	Mode of Ownership	/memorandum conclud	ded with Local Council and	GARWSP Branch Office.				
		chairperson (1), b) vic administrative clerk (1	e chairperson (1), с) fiлало ), and f) board member (5					
	Mode of Management Entity	(one (1) representative Assembly further elect	e each from twenty (20) us led Administrative Board fo					
				setting is established in 2002?) four (4) years. Last election was conducte				
		b) meter reader (1), c)	bill distributor/pipeline for	operational staff; a) operators/watchman (3 eman (2). e Ministry of Social Affairs, with supervision				
		of Local Council and C	SARWSP Branch Office.	The Board members mentioned that all				
	Organizational Management	decisions in the schen	ne management are made					
		· ·	eting is called once in four	r (4) years for election of user				

<del>_</del>	Technical manual is prep	ared.	- · · · · · · · · · · · · · · · · · · ·		
	Operation records are ke (meter reading). Both rec		n hours and consumption at each household to check water losses.		
			rtaken, providing water for two (2) days in a		
	week for each village, due to water shortage.				
	Water shortage is observed due to borehole capacity. New borehole is constructed in 199				
Technical Operation and Maintenance	but it is not connected to the scheme yet.				
	One of whole pump unit was replaced six (6) years ago, of which cost is funded by				
	Pipeline was extended five (5) years ago, funded by GARWSP.				
	Two (distribution ?) tanks				
			, of which costs were borne by the community		
		1-3 m3: YR 13	30/m3		
	Water Tariff Structure:	4-10m3: YR 16	60/m3		
		11m3: YR 19	90/m3		
	The above tariff structure	has been effective s	since August 2005.		
;	Water bills are prepared	by Administrative Bo	ard and distributed to each household. Users		
	make their payments at the				
	Administrative Board own	ns (purchased) the fo	llowing assets; a) second-hand pick-up truck		
			c) land for new well ('98) purchased from land		
	owner, and d) store hous		Board office.		
!	Financial records are kep	ot			
	Income in last month: YR 1,850,700				
	Expenditure in last	YR 807,073			
	Income in last month is conduced by the Adminis		e to the disconnection campaign for defaulter		
	Average Income:	YR 900,000/month			
Financial Management and Transparency	Average Expenditure:	YR 750,000/month			
		YR 258,000   Salan	y/Allowance		
	Evpanditura Brankdowni	YR 300,000 Fuel			
	Expenditure Breakdown:	YR 200,000 Maint	enance		
	į	YR 40,000 Dona	tion (for the poor, widows, mosque, and		
		Chairperson	YR 16,000-20,000/month (as Bonus)		
	İ	Vice Chairperson	YR 16,000-20,000/month (as Bonus)		
	Borooppol Costs:	Accountant	YR 40,000/month		
	Personnel Costs:	Treasurer	YR 20,000/month		
		Operator	YR 31,000/month		
		Meter Reader:	YR 22,000/month, YR 19,000/month		
	Administrative Board mer	mbers except Accour	ntant and Treasurer is working without salary		
			nus paid, according to management		
			e/profit in the scheme management), while a		
	board members are paid	with meeting allowar	nce.		
	· ·	and Ministry of Socia	al Affairs are involved in handing-over and		
Stakeholder Involvement / Responsibility Shari					
			vided by Local Council and GARWSP.		
Community Contribution	C/A Existing Supply Sche				
Community Contracting-Out	Contract arrangement is		and Meter Readers.		
Community Contracting-Out	There is no other private	contracting-out.			
Conflict Resolution	No conflict cases are me	ntioned.			
Pro-Gender and Pro-Poor	N/A				
			ment is observed with served population of		
Remarks	12,000, which enables re	habilitation and expa	insion of the scheme and purchase of a		
	vehicle, land for borehole	construction, and st	orehouse construction with spare parts.		

11=10 3  0.	NTIFICATION PANEL				Description			
	ode No.	T-03					100	
	te Name	Sheb Humran						. New X
	ub-District (Uzlat)	Al Shua'abah						
		Al Ma'afer						trije gas i
	strict	Taiz					<del> </del>	1.00
G	overnorate		ngitude			· <del></del>		
—— Co	pordinates	Laiiude	- Ingitado					
<del>-</del>		<u> </u>						*
	oordinates (Measured Location)	600 mm						[15] \$41 mags
	nnual precipitation (rainfall)	600 mm						1000
	opulation (2006)	23,732			· .			- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Po	opulation Forecast (2016)	30,290		<del></del>				- W. J.
No	o. of Village (Qariah) in Total	<u> </u>	·			<u>`</u>		<u> </u>
No	o. of Village (Qariah) to be served	<u>i                                      </u>						
		Name		Popul		Household	Coordinate	(Lat / Lon
		Sha'ab Al Aridha			1,737_	226		İ
		Jahesa	i		3,697			
		Al Dhahrah			1,804	287		
— i		Al Awabel			614	94		
		Al Janh	-		777	144		
		Al Deer	Ť		651	88		
		Khowah			2,802	383		
		Al Anbooh	†		879	140		
i		Al Kunaina	!		636	96		
	llege (Oorigh) in the Community	Al Waheez	-		960	130		<u> </u>
VI	llage (Qariah) in the Community	Shaisaran	į		718	114		j
			-		861	133		
.]		Sura'an						! · ·
		Essab	.		1,241	185		·
1		Kawkab			756	111		<u> </u>
1		Nakha'an	<u> </u>		414	60		
		Thy Habeel	1		4,006	615		
!		Soug Al Ahad			529	97		
		Sheb Hemran			650	123		
		Al Masha'er						
		Al Messar				i		i .
XISTING	G WATER SUPPLY SCHEME PANEL Item	_			Description	' ·		
o. Fu	unctioning Item	Functional	nt .	Specif	4	Condition	Vear	Fund
o. Fu	ltem	Functional Componer	nt	Specif	ication	Condition	Year	Fund
). Fi	unctioning Item	Functional Componer Pump for Deep W	Vell (2)		4	Condition Seasonal		Fund
o. Fu	unctioning Item	Functional Componer Pump for Deep W	Vell (2)	Vertical	ication CAPRARI	!	1990	GAREW
o. Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep	Vell (2)	Vertical	ication	!	1990	
o. Fu	unctioning Item	Functional Componed Pump for Deep W Al Mahas Engine for Deep W Al Mahas	Vell (2) Well (2)	Vertical	ication CAPRARI	Seasonal	1990	GAREW
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep Al Mahas Pump House for I	Vell (2) Well (2) Deep	Vertical	ication CAPRARI	Seasonal	1990	GAREW
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep Al Mahas Pump House for I Well (2) Al Mahas	Vell (2) Well (2) Deep s	Vertical	ication CAPRARI	Seasonal	1990 2004 2004	GAREW GAREW village
o. Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W	Vell (2) Well (2) Deep s	Vertical RC	ication CAPRARI	Seasonal Replaced	1990 2004 2004	GAREW
o. Fu	unctioning Item	Functional Componed Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres	Vell (2) Well (2) Deep s Vell (3)	Vertical	ication CAPRARI	Seasonal	1990 2004 2004	GAREW GAREW village
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W	Vell (2) Well (2) Deep s Vell (3)	Vertical RC	ication CAPRARI	Seasonal Replaced Not used	1990 2004 2004 1980	GAREW  GAREW  village  village
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres	Vell (2) Well (2) Deep s Vell (3) Well (3)	Vertical RC	ication CAPRARI	Seasonal Replaced	1990 2004 2004 1980	GAREW GAREW village
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for I	Vell (2) Well (2) Deep s Vell (3) Well (3)	Vertical RC Vertical	ication CAPRARI	Seasonal Replaced Not used	1990 2004 2004 1980	GAREW village village
o. Fi	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for I Well (3) Teres	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep	Vertical RC	ication CAPRARI	Seasonal Replaced Not used	1990 2004 2004 1980	GAREW village village
o. Fi	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for Well (3) Teres Pump for Deep W	Vell (2) Well (2) Deep s Vell (3) Well (3)	Vertical  RC  Vertical	ication CAPRARI AIFO	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980	GAREW village village village GAREW
o. Fi	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for I Well (3) Teres	Vell (2) Well (2) Deep s Vell (3) Well (3)	Vertical  RC  Vertical	ication CAPRARI	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980	GAREW village village village GAREW
). Fi	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for Well (3) Teres Pump for Deep W	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4)	Vertical  RC  Vertical  RC  Submersible	ication CAPRARI AIFO GRUNDFOS	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998	GAREW village village village GAREW
Fu	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Deep	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4)	Vertical  RC  Vertical  RC  Submersible	ication CAPRARI AIFO	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998	GAREW village village village GAREW
Fu	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4)	Vertical  RC  Vertical  RC  Submersible	ication CAPRARI AIFO GRUNDFOS	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996	GAREW village village GAREW GAREW
). Fi	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep	Vertical  RC  Vertical  RC  Submersible	ication CAPRARI AIFO GRUNDFOS	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996	GAREW village village GAREW GAREW
). Fi	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as	Vell (2) Well (2) Deep s Vell (3) Deep Vell (4) Deep Well Deep	Vertical RC Vertical RC Submersible 84kW	CAPRARI AIFO  GRUNDFOS  John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1996	GAREW village village GAREW GAREW GAREW
Fu	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Boostel	Vell (2) Well (2) Deep s Vell (3) Deep Vell (4) Deep Well Deep cha'ar r No.1	Vertical RC Vertical RC Submersible 84kW RC	CAPRARI AIFO  GRUNDFOS John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1996 1996 1997	GAREW village village GAREW GAREW GAREW GAREW GAREW
Fu	unctioning ltem	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste	Well (2) Well (2) Deep s Vell (3)  Deep Vell (4) Pep Well Deep Sha'ar or No.1 er No.1	Vertical RC Vertical RC Submersible 84kW RC Horizontal	CAPRARI AIFO  GRUNDFOS  John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1996 1997 1994 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump House for	Well (2) Well (2) Deep s Vell (3)  Deep Vell (4) Pep Well Deep Sha'ar or No.1 er No.1	Vertical RC Vertical RC Submersible 84kW	CAPRARI AIFO  GRUNDFOS John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1996 1997 1994 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW
). Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Engine for Booste No.1	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep sha'ar or No.1 er No.1 Booster	Vertical  RC  Vertical  RC  Submersible  84kW  RC  Horizontal	GRUNDFOS John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump House for No.1 Pump for Booste	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep sha'ar or No.1 er No.1 Booster	Vertical  RC  Vertical  RC  Submersible  84kW  RC  Horizontal  RC  Horizontal	GRUNDFOS John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W House for I Well (3) Teres Pump House for Well (3) Teres Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Engine for Booste Engine for Booste Engine for Booste	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep sha'ar sr No.1 er No.1 Booster er No.2	Vertical  RC  Vertical  RC  Submersible  84kW  RC  Horizontal  RC  Horizontal	GRUNDFOS John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1996 1996 1997 1994 2004 1994 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W House for I Well (3) Teres Pump House for Well (3) Teres Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump for Booste Engine for Booste Engine for Booste Engine for Booste	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep sha'ar sr No.1 er No.1 Booster er No.2	Vertical  RC  Vertical  RC  Submersible  84kW  RC  Horizontal  RC  Horizontal	GRUNDFOS John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1996 1996 1997 1994 2004 1994 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW GAREW
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W House for I Well (3) Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Pump House for No.2	Well (2)  Well (2)  Deep s Vell (3)  Well (3)  Deep Vell (4)  Deep well  Deep what ar or No.1  Booster  T No.2  Booster	Vertical  RC  Vertical  RC  Submersible  84kW  RC  Horizontal  RC  Horizontal  142kW  RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 1994 2004 2004 2004	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep well Deep sha'ar or No.1 er No.1 Booster Pr No.2 er No.2 er No.2	RC Vertical  RC Submersible 84kW RC Horizontal RC Horizontal 142kW RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 1994	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste	Well (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep sha'ar r No.1 er No.1 Booster Pr No.2 er No.2 Booster D.1	RC Vertical  RC Submersible 84kW RC Horizontal RC Horizontal 142kW RC RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 1994 2000	GAREW village village GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS GARWS
Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste	Well (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep well Deep sha'ar or No.1 er No.1 Booster or No.2 er No.2 Booster 0.1	RC Vertical  RC Submersible 84kW RC Horizontal 142kW RC RC RC RC RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere 25m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 1994 2006 1986	GAREW village village village GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS GARWS GARWS GARWS GARWS
). Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Engine for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste	Well (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep well Deep sha'ar or No.1 Booster or No.2 Booster 0.1 0.2 0.1 0.2 0.1 0.2	RC Vertical  RC Submersible 84kW RC Horizontal RC Horizontal 142kW RC RC RC RC RC RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere 25m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 1998 1988	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GARWS GAREW GARWS GAREW GARWS GAREW GARWS VIllage village
). Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Well (2) Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W House for Well (3) Teres Pump House for Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Pump House for No.2 Booster Tank No Booster Tank No Distribution Tank Present Main Tank	Well (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep Sha'ar r No.1 er No.1 Booster r No.2 er No.2 er No.2 booster r No.1 cr No.1	RC Vertical  RC Vertical  RC Submersible 84kW RC Horizontal  RC Horizontal 142kW RC RC RC RC RC RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere 25m3 75m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 2004 1998 1988 2000	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GARWS GAREW GARWS GAREW GARWS GAREW GARWS GAREW GARWS
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W House for I Well (3) Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for I Well (4) Al Me'as Engine for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Engine for Booste Engine for Booste Engine for Booste Engine for Booste Dump House for No.2 Booster Tank No Booster Tank No Distribution Tank Present Main Tank New Main Tank	Well (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep Sha'ar ST NO.1 BOOSTET NO.2 BOOSTET NO.2 BOOSTET NO.1 C NO.2 C NO.1 C NO.2 C NO.1	RC Vertical  RC Submersible 84kW RC Horizontal RC Horizontal 142kW RC RC RC RC RC RC RC RC RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere 25m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 2004 1998 1988 2000	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS GARWS GARWS Village village
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Engine for Booste Pump House for No.2 Booster Tank No Booster Tank No Booster Tank No Distribution Tank Present Main Tank Present Main Tank Pumping Main	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Deep Well Deep sha'ar sr No.1 er No.1 Booster r No.2 er No.2 er No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2 ler No.2	RC Vertical  RC Vertical  RC Submersible 84kW RC Horizontal 142kW RC RC RC RC RC RC RC RC RC RC RC RC RC	GRUNDFOS John Deere LANDINI John Deere LANDINI John Deere 25m3 75m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced	1990 2004 2004 1980 1980 1998 1996 1997 1994 2004 2004 2004 2004 1998 1988 2000	GAREW village village GAREW GAREW GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS GARWS GARWS GARWS GARWS GARWS GARWS GARWS GARWS VIllage Village GARWS
o. Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W House for I Well (3) Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for I Well (4) Al Me'as Engine for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Engine for Booste Engine for Booste Engine for Booste Engine for Booste Dump House for No.2 Booster Tank No Booster Tank No Distribution Tank Present Main Tank New Main Tank	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Pep Well Deep sha'ar or No.1 Booster or No.2 Rer No.2 Rer No.2 Rooster No.2 Rooster No.1 Rooster Rooster No.2 Rooster No.1 Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster	RC Vertical  RC Submersible 84kW RC Horizontal 142kW RC RC RC RC RC RC RC RC RC RC RC RC RC	GRUNDFOS John Deere  LANDINI John Deere  LANDINI John Deere  25m3 75m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced  Deteriorated Too small	1990 2004 2004 1980 1980 1998 1996 1996 1997 1994 2004 2004 2004 1998 1986 1986 1986	GAREW village village village GAREW GAREW GAREW GAREW GAREW GARWS GAREW GARWS GARWS GARWS GARWS GARWS VIllage Village GARWS Village
o. Fu	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump House for Well (4) Al Me'as Pump for Booste Engine for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Engine for Booste Pump House for No.2 Booster Tank No Booster Tank No Booster Tank No Distribution Tank Present Main Tank Present Main Tank Pumping Main	Vell (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Pep Well Deep sha'ar or No.1 Booster or No.2 Rer No.2 Rer No.2 Rooster No.2 Rooster No.1 Rooster Rooster No.2 Rooster No.1 Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster Rooster	RC Vertical  RC Submersible 84kW RC Horizontal 142kW RC RC RC RC RC RC RC RC RC RC RC RC RC	GRUNDFOS John Deere  LANDINI John Deere  LANDINI John Deere  25m3 75m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced	1990 2004 2004 1980 1980 1998 1996 1996 1997 1994 2004 2004 2004 1998 1986 1986 1986	GAREW village village village GAREW GAREW GAREW GAREW GAREW GARWS GAREW GARWS GARWS GARWS GARWS GARWS VIllage Village GARWS Village
). Fi	unctioning Item	Functional Componer Pump for Deep W Al Mahas Engine for Deep W Al Mahas Pump House for I Well (2) Al Mahas Pump for Deep W Teres Engine for Deep W Teres Pump House for I Well (3) Teres Pump for Deep W Al Me'asha'ar Generator for Dee (4) Al Me'asha'ar Pump House for Well (4) Al Me'asha'ar Pump for Booste Engine for Booste Engine for Booste Engine for Booste Pump House for No.1 Pump for Booste Engine for Booste Pump House for No.2 Booster Tank No Booster Tank No Booster Tank No Distribution Tank Present Main Tank Present Main Tank Pumping Main Distribution Main	Well (2) Well (2) Deep s Vell (3) Well (3) Deep Vell (4) Pep Well Deep Sha'ar Fr No.1 Per No.1 Per No.2 Per No.2 Per No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2 Rec No.2	RC Vertical  RC Submersible 84kW RC Horizontal 142kW RC RC RC RC RC RC RC RC RC RC RC RC RC	GRUNDFOS John Deere  LANDINI John Deere  LANDINI John Deere  25m3 75m3 75m3 75m3 75m3	Seasonal Replaced Not used Not used Replaced  Deteriorated Too small	1990 2004 2004 1980 1980 1998 1996 1996 1997 1994 2004 2004 2004 1998 1986 1986 1986	GAREW village village village GAREW GAREW GAREW GAREW GAREW GARWS GARWS GARWS GARWS GARWS VIllage Village GARWS Village Village

ER SOURCE PANEL			Description
	T-03/1 AI Jah		
[Borehole Code]	North	East	
Grid (UTM)		396972	╡
	1475729		
0-1 (I atil an)	Lat. N	Lon. E	
— Grid (Lat/Lon)	13°20' 50.1"	44°02' 55.2"	
Present Condition (Pump Typ			<u> </u>
	1,257		
Elevation (m)		. '''' —	<u> </u>
Aquifer/Geological Description			
Year of Construction	2005	<u> </u>	
Fund	GARWSP		
Depth (m)	400	m	
		inch	
Casing Diameter (inch)	' <u>-</u>		
Screen			
Static Water Level (G.Lm)	22.22		
Dynamic Water Level (G.Lп	44.51	m	
Drawdown (m)	22.29	m	
		g/min	4.0 L/sec
Discharge (g/min)			1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
Specific Capacity		) L/s/m	
EC (mS/m)		mS/m	
pH	6.97	, l	<u> </u>
	27.0		
Temperature ('C)		1:	
Remarks	<u> </u>		
[Borehole Code]	T-03/2 AI M	ahas	
	North	East	
Grid (UTM)			
	Lat. N	Lon. E	
— Grid (Lat/Loп)			
1		" 44°02' 53.6	
Present Condition (Pump Typ	e)		
Elevation (m)	1,274	4 m	
		Seasonal	Vertical pump
Aquifer/Geological Description	1986		TOTAL CONTROL OF THE
Year of Construction		<u>)                                    </u>	
Fund	GAREW		
Depth (m)	208	8 m	
Casing Diameter (inch)		inch	
Screen			
Static Water Level (G.Lm)		<u>m</u>	
Dynamic Water Level (G.Lr	.)	<u>m</u>	
Drawdown (m)	1	m	
Discharge (g/min)		g/min	0.0 L/sec
		L/s/m	
Specific Capacity			
EC (mS/m)		1 mS/m	
рН	7.14		
Temperature ('C)	28.	5	
Remarks	Seasonal	<u></u>	
[Borehole Code]	T-03/3 Tere	·	
Crist (LITM)	North	East	
Grid (UTM)			
<del></del>	Lat. N	Lon. E	
⊸Grid (Lat/Lon)	= = = = = = = = = = = = = = = = = =		
		<u> </u>	
Present Condition (Pump Ty	e) Dried up ar	ter 6 months	
Elevation (m)		m	
Aquifer/Geological Description	n		•
Year of Construction	198	0	
	Village		
Fund			
Depth (m)	!22	<u></u>	
Casing Diameter (inch)		inch	_ <u> </u>
Screen			. — — · · · · · · · · · · · · · · · · ·
Static Water Level (G.Lm)			
Dynamic Water Level (G.L	1)		
Drawdown (m)			
Discharge (g/min)	-	g/min	0.0 L/sec
		L/s/m	
Specific Capacity	. — — — — — — — — — — — — — — — — — — —		The second secon
EC (mS/m)		mS/m	
pΗ		<u>                                     </u>	
Temperature ('C)			

[Borehole Code]	T-03/4 Al Me'asha'ar	
<del>_</del>	North East	
Ġrid (UTM)		
	Let N Lon E	
— Grid (Lat/Lon)	Lat. N Lon. E	
	13°23' 54.8" 44°01' 07.0"	
Present Condition (Pump Type)	Working Submersible pump	
Elevation (m)	1,366 m	
Aquifer/Geological Description		
Year of Construction	1998	
	GAREW	
Fund		The state of the s
Depth (m)	260 m	
Casing Diameter (inch)	inch	
Screen	<u> </u>	
Static Water Level (G.Lm)	24.19 m	
Dynamic Water Level (G.Lm)	28.21 m	
	4.02 m	
Drawdown (m)	67 g/min 4.2 L/sec	
Discharge (g/min)		
Specific Capacity	1.044 L/s/m	
EC (mS/m)	93.9 mS/m	
pH	7.37	
Temperature ('C)	26.3	
Remarks		
TER SUPPLY PLANNING PANEL	Descrip	otion
	Descrip	
[Design Parameter]		
No. of Villages in Total	0	
No. of Villages to be Covered	0	<u> </u>
Current Population (2006)	23,732	
Design Population (2016)	30,290	
	25 L/c/d 757 m <sup>3</sup> /day	
Design Water Supply Rate	Rehabilitation	
Type of Work Required		Notes
Required Facilities	Component Construction	
<u> </u>	Pump for Deep Well (1) Al Donor	New
	Eng./Gen. for Deep Well (Donor	New
	Pump House for Deep We Donor/Village	New
	Pump for Deep Well (4) Al Donor	Replace
	Eng./Gen. for Deep Well ( Donor	Replace
<u></u>	Pump House for Deep Well (4) Al Me'asha'ar	
	Pump for Booster No.1 Donor	Replace
	Eng./Gen. for Booster No. Donor	Replace
	Pump House for Booster No.1	
	Pump for Booster No.2 Donor	Replace
	Eng./Gen. for Booster No. Donor	Replace
	Pump House for Booster N	
		Now
<u> </u>	Pump for Booster No.3 Donor	New
	Eng./Gen. for Booster No. Donor	New
	Pump House for Booster In Donor/Village	New
<del></del>	Booster Tank No.1	·
<del></del>	Booster Tank No.2	i
	Booster Tank No.3 Donor	New
	Distribution Tank No.1	
<u>i</u>		:
İ	Distribution Tank No.2	<u></u>
	Present Main Tank	
<u> </u>	New Main Tank	
<del></del>	Pumping Main Donor	New, from deep well (1) Al Jah
<del></del>	Distribution Main	:
<u>j</u>	Public Tapstand	
	House Connection	<u> </u>
Accessibility	_	. <u></u>
Security		
Observation		
Observation		ription
ERATION AND MAINTENANCE PANEL	Lineri	ipsioi!
ERATION AND MAINTENANCE PANEL Item	Descr	The second of th
ERATION AND MAINTENANCE PANEL  Item  No. of Village Head (Sheikh)	Descri	
ERATION AND MAINTENANCE PANEL  Item  No. of Village Head (Sheikh)		
ERATION AND MAINTENANCE PANEL Item	1 1 Water level in the borehole constructed in 198	2 becomes very low in summer seasons.
ERATION AND MAINTENANCE PANEL  Item  No. of Village Head (Sheikh)	1 1 Water level in the borehole constructed in 198	2 becomes very low in summer seasons. d, pump unit on the borehole was operate
ERATION AND MAINTENANCE PANEL  Item  No. of Village Head (Sheikh)	1 Water level in the borehole constructed in 1982 January 2006, when this survey was conducted	d, pump unit on the borehole was operate
Item  No. of Village Head (Sheikh)  No. of Tribe	1 Water level in the borehole constructed in 198: January 2006, when this survey was conducted three (3) hours. Pipeline with booster pump unit from the boreh	d, pump unit on the borehole was operate
ERATION AND MAINTENANCE PANEL  Item  No. of Village Head (Sheikh)	1 Water level in the borehole constructed in 198: January 2006, when this survey was conducted three (3) hours. Pipeline with booster pump unit from the borehoostructed also in 2005 is not installed yet. T	d, pump unit on the borehole was operate nole constructed in 2005 to the tank The pipelines and booster pump are provid
Item  No. of Village Head (Sheikh)  No. of Tribe	1 Water level in the borehole constructed in 198: January 2006, when this survey was conducted three (3) hours. Pipeline with booster pump unit from the borehous tructed also in 2005 is not installed yet. They helperlands cooperation, but they are still they are still to the property of the standards cooperation.	d, pump unit on the borehole was operate nole constructed in 2005 to the tank The pipelines and booster pump are provid
Item  No. of Village Head (Sheikh)  No. of Tribe	1 Water level in the borehole constructed in 198: January 2006, when this survey was conducted three (3) hours. Pipeline with booster pump unit from the boreh	d, pump unit on the borehole was operate nole constructed in 2005 to the tank The pipelines and booster pump are provid

	Mode of Ownership			with Local Council and GARWSP.  Ministry of Social Affairs				
		The scheme management CBO is registered under Ministry of Social Affairs.  Administrative Board for the scheme management is established in 2004.  General Assembly, composed of users, elect thirty five (35) User Representatives. Among User Representatives, Directorial Board members were elected. Administrative Board members are further elected among Directorial Board members.						
1								
		members are further elected among Directorial Board members.  Administrative Board is composed of; a) director (1), b) financial manager (1), c) treasurer						
j		(1), and d) accountant (1)		, b) illiancial manager (1), b) il casarci				
				onal staff; a) plumber/bill distributor (2), b)				
	Wood of Mariagomonic Entity	operator/watchman (4) c	meter reader (1) inlumbe	er/foreman for water rationing (2).				
		Until the Administrative ar	nd Directorial Boards were	e established, the scheme had been				
:		managed by the individual (i.e. traditional Sheikh management). With recognition of						
		problems in the scheme n	nanagement by Sheikh, n	ew CBO settings with registration under				
i	į	Ministry of Social Affairs v						
				ess for CBO management entities.				
				inder Ministry of Social Affairs.				
	<u> </u>	Constitution for the schen		oards are set for three (3) years by their				
1		constitution.	strative and Directorial Di	Darus are set for timee (3) years by their				
!	Organizational Management		scheme management ar	e made in Directorial Board, while				
				and maintenance of the scheme.				
i i		Directory Board is calling	regular meetings once in	a month.				
		User Representative mee						
				due to water shortage, supplying two (2)				
	<u> </u>	days in a week in each su						
				ontracting with local contractor, were				
				nt), which cost YR 1.5 million.				
		Rehabilitation of water tar		vere carried out by the community.				
			Fixed Contribution	YR 100				
		Tariff Structure:	Up to 3 m3	YR 450/3 m3 as fixed/basic charge				
			> 3 m3	YR 150/m3				
	ļ	Tariff setting was decided by Directorial Board.						
		ncome in average:	YR 850,000/month					
i !		Expenditure in average:	YR 650,000/month	Colon/Allowana				
			YR 245,000/month	Salary/Allowance Fuel				
1		Expenditure breakdown:	YR 300,000/month YR 35,000/month	Operation and maintenance cost				
		experiulture breakdown.	YR 25,000/month	Fuel for Vehicle				
	Financial Management and Transparency		YR 60,000/month	Tax for Local Council				
			YR 30,000/month	Director				
1			YR 20,000/month	Accountant				
			YR 25,000/month	Financial Manager				
			YR 25,000/mounth	Treasurer				
		Personnel Cost:	YR 15,000/month	Plumber				
			YR 12,000/month	Operator				
1			YR 12,000/month	Meter Reader				
			YR 8,000-12,000/month					
		Netherlands supports pro	1	nd pipeline materials from the borehole to				
		the distribution tank newly		• • • • • • • • • • • • • • • • • • • •				
				four (4) Board members in technical,				
Ste	akeholder Involvement / Responsibility Sharing	administrative, and finance	ial management. The tra	ining workshop is held in Hodeida, of				
٦١	Renolder Involvement / Responsionity offamily	which duration is for one						
1	į		<del>-</del>	procedures, and provides regular on-site				
	!			administrative management and				
1		GARWSP provides (techr		1004				
	Community Contains	Pumping house was cons						
		Administrative Board rent						
	:	One (1) pick-up truck is owned by the Administrative Board.						
		There is no private contracting-out setting for regular management, operation and						
		•		maintenance of the scheme.				
	Community Contracting-Out	maintenance of the scher	ne.					
	Community Contracting-Out	maintenance of the scher Ad hoc contracts were co	ne. ncluded for major maintel	nance, extension, and rehabilitation.				
	Community Contracting-Out  Conflict Resolution	maintenance of the scher Ad hoc contracts were co No conflict cases are mer	ne. ncluded for major maintel ntioned.	nance, extension, and rehabilitation.				
	Community Contracting-Out  Conflict Resolution  Pro-Gender and Pro-Poor	maintenance of the scher Ad hoc contracts were co No conflict cases are mer One (1) female member is	ne. ncluded for major maintentioned. s participating in Directori	nance, extension, and rehabilitation.				

	DENTIFICATION PANEL							
No.	<u>Item</u>				Description		er er er er er er er er er er er er er e	
	Code No.	T-04	<u> </u>					
	Site Name	Yafoq Bani I			<u> </u>			e transport of the
	Sub-District (Uzlat)	Bani Hamad						
	District	Al Mawaset			Jane Walio	4,1 4 1		
	Governorate	Taiz						
		Latitude	Longitude	7 1		The provided of the	1.12.14	N. 19 19 19 19 19 19 19 19 19 19 19 19 19
	Coordinates							
	Coordinates (Measured Location)		.!	J	· · · · -			Control of the second
	Annual precipitation (rainfall)	550	mm				4 18 11	
	Population (2006)	6,844		<del>-</del>				4 W
	Population Forecast (2016)	8,735			·			रेक्ट रेट जिल्हा रेक्ट रेट जिल्हा
	No. of Village (Qariah) in Total	1	٠.					
	No. of Village (Qariah) to be served	İ		-,,,,,,,			1 1 1 1 1 1 1 1 1	A survey of the
		Na	me	Pop	ulation	Household	Coordinate	e (Lat / Lon
		Bani Hasan			399	57		
		Deer Al Shai	reef		301			1
		Bardad		ļ	455	65		
		Nama'a			420	30		
		Al Thaibah			273	39		
		Al Mashgob			910	4		
			<u>.</u>	<del> </del>		130		
		Al Lukaimah			1,099	157		
		Al Ashraf			161	23		<u> </u>
		Thy Al Bali			63	9		
		Al Kahfah		<u> </u>	140	20		
		Al Lafag			98	14		1
		Al Suna'			140	20		
		Al Roseen			91	13		
		Al Nagad			77	11		
		Bahama			168	24		
		Al Sdad			70	10 1		
	Village (Qariah) in the Community	Al Kibab			49	7		
	village (darian) in the Community	Al Nutaa		ļ	140			ļ
				!		20		
		Al Nowiardah	-		161	23		
		Al Makateen		.	119	17		<u> </u>
		Al Ayen			210	30		!
		Dar Al Nakee	el		42	6		
		Yafoq		<u></u>	210	30		
		Kubaishah			238	34		
:		Mahareer		1	210	30		
		Dar Al Share	ef		600	50		
		Al Nakeel		-				
		Qasat Al Sha	areef			· · · · · · · · · · · · · · · · · · ·		
		Al Ribat						
		Akamat Al Si	una'	1				
		Al Thahrah		i		i		
		Goa						<u> </u>
		Qahareer						
		Zabad						1
1		Al Kabah						
	NG WATER SUPPLY SCHEME PANEL				Dec 1			
lo.	Item Eunstioning	Eupotional			Description			
	Functioning Components of Evicting Water Supply Schome	Functional	onent		ification	Condition		
:	Components of Existing Water Supply Scheme	Pump for De		Submersible		Condition	Year	Fund GAREW
		Generator for		48kW	IVECO			GAREW
		Pump House			I I			Village
		Pump for Boo		Horizontal	Luigi Biraghi	20m3/hr 40f		GAREW
		Engine for Bo		. TOTALOTTICAL	IVECO	_55/111, 400		GAREW
		Pump House		Concrete	1	· ·		Village
1		Booster Tank		RC	25m³	-		GAREW
i i		Distribution T		RC	100m <sup>3</sup>			GAREW
- i		Pumping Mai		SGP	TOOM	[		GAREW
		Distribution N		SGP	<del> </del>			GAREW
		T			, 2 schools, 1	clinic. 1 boost		
		Public Tapsta	and		es with meters		otation, i	_0.0,1010,
		House Conne	ection					<u> </u>
		House Conne	ection	400				
	Observations	House Conne	ection					

No.	ER SOURCE PANEL				
	Item	<del></del>	J	Description	
	[Borehole Code]	<u> </u>	<u> </u>		
	⊣ Grid (UTM)	North	East	-	
	· · · · · · · · · · · · · · · · · · ·	147197	402125		
	Grid (Lat/Lon)	Lat. N	Lon. E 44°05′ 46.8″		
	Propert Condition (Pures Tune)	Working	Submersible	<del></del>	<u>and the state of </u>
	Present Condition (Pump Type)	1,381		pump	
	Elevation (m) Aquifer/Geological Description	1,301		F	
	Year of Construction	1982	T .		North Control of the
	Fund	Village	l		
	Depth (m)	220			
	Casing Diameter (inch)		inch		
	Screen		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		The second second second second second second second second second second second second second second second se
	Static Water Level (G.Lm)	124.1	m		
	Dynamic Water Level (G.Lm)	126.01			
	Drawdown (m)	1.91			وا مره الروز وي وي من المراكز و الروز المراكز و المراكز و المراكز و المراكز و المراكز و المراكز و المراكز و ال المراكز و ا
	Discharge (g/min)		g/min	3.0 L/sec	The state of the s
	Specific Capacity		L/s/m	0.0 27000	
	EC (mS/m)		mS/m		
	pH	7.27		<del></del>	
	Temperature ('C)	28.1			
	Remarks	20.1	1		
WATE	R SUPPLY PLANNING PANEL	·			
No.	Item	!		Description	
	[Design Parameter]			<u>.</u>	
	No. of Villages in Total	0	1		The first of the control of the cont
	No. of Villages to be Covered	1 0			
	Current Population (2006)	6,844			
	Design Population (2016)	8,735			
	Design Water Supply Rate	<del></del>	L/c/d	218 m <sup>3</sup> /day	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Type of Work Required	Rehabilitatio		2 10 m /day	
	Required Facilities		onent	Constructed by	Notes
	Troduida i dointos	Pump for De		Donor	Replace
		Eng./Gen. fo		Donor	Replace
			for Deep We		Tropido
		Pump for Bo		Donor	Replace
		Eng./Gen. fo		Donor	Replace
		Pump House			
		Booster Tan		Donor/GARWSP/Village	Expansion
		Distribution	rank	Donor/GARWSP/Village	Expansion
		Pumping Ma			
	······································		and the second second	Village	Todansian 4- 45 williams
		II listribulion f		village	TEXTENSION TO 15 VIIIAGES
	<u> </u>	Distribution N		Village	Extension to 15 villages
		Public Tapst	and	· · · · · · · · · · · · · · · · · · ·	Extension to 15 villages
	Accessibility		and	village	Extension to 15 villages
	Accessibility Security	Public Tapst	and	Village	Extension to 15 villages
	Security Observation	Public Tapst	and	Village	Extension to 15 villages
	Security Observation ATION AND MAINTENANCE PANEL	Public Tapst	and		
	Security Observation ATION AND MAINTENANCE PANEL Item	Public Tapst	and	Description	
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst	and		
	Security Observation ATION AND MAINTENANCE PANEL Item	Public Tapst House Conn	and ection	Description	
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing	and ection supply schen	Description ne was completed in 1995,	although the borehole was constructed
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing in 1982. Uni	and ection supply schen	Description ne was completed in 1995,	
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing in 1982. Unt available.	and ection supply schen til 1995, there	Description ne was completed in 1995, had been no supply syste	although the borehole was constructe
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing in 1982. Untavailable. Borehole purious	and ection supply schentil 1995, there	Description  ne was completed in 1995, had been no supply syste nersible pump) was inspec	although the borehole was constructe m, and supply service had not been
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing in 1982. Untavailable. Borehole pur community (A	and ection supply schen til 1995, there mp unit (subn Administrative	Description  ne was completed in 1995, had been no supply syste nersible pump) was inspec	although the borehole was constructe m, and supply service had not been ted by the contractor hired by the inagement). It was reported that
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing in 1982. Untavailable. Borehole pur community (a overhaul and after six (6) remains the control of	supply schentil 1995, theremp unit (subn Administrative considerable months. The	Description  ne was completed in 1995, had been no supply syste nersible pump) was inspect a Board for the scheme maintenance is necessar cost for overhaul and main	although the borehole was constructem, and supply service had not been ted by the contractor hired by the inagement). It was reported that y, otherwise it would be not operationattenance is estimated at RY 230,000.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh)	Public Tapst House Conn  1 1 The existing in 1982. Untavailable. Borehole pur community (a overhaul and after six (6) Pump unit for	supply schentil 1995, theremp unit (submadministrative considerable months. The probone is	Description  ne was completed in 1995, had been no supply syste nersible pump) was inspect a Board for the scheme maintenance is necessar cost for overhaul and maintenantly operating 8-10 ho	although the borehole was constructed in, and supply service had not been sted by the contractor hired by the imagement). It was reported that y, otherwise it would be not operational itenance is estimated at RY 230,000.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Untavailable. Borehole pur community (a overhaul and after six (6) I Pump unit for Capacity/For	supply schentil 1995, theremp unit (submadministrative considerable months. The probore of the controlle is the copy of the co	Description  ne was completed in 1995, had been no supply syste nersible pump) was inspect a Board for the scheme maintenance is necessar cost for overhaul and maintenantly operating 8-10 ho	although the borehole was constructed in, and supply service had not been sted by the contractor hired by the imagement). It was reported that y, otherwise it would be not operational itenance is estimated at RY 230,000.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Untavailable. Borehole pur community (a overhaul and after six (6) I Pump unit for Capacity/For the current dispersed.	supply schentil 1995, there mp unit (subm Administrative donsiderable months. The proborehole is the proper (48 demand.	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessared cost for overhaul and maintenantly operating 8-10 hours.  KW) of generator for bore	although the borehole was constructem, and supply service had not been ted by the contractor hired by the imagement). It was reported that y, otherwise it would be not operational tenance is estimated at RY 230,000. Durs in a day.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Und available. Borehole pur community (a overhaul and after six (6) r Pump unit for Capacity/For the current discontinuity.	supply schentil 1995, there mp unit (submadministrative donsiderable months. Their borehole is roe power (48 emand.	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessared cost for overhaul and maintenantly operating 8-10 hours.  KW) of generator for bore	although the borehole was constructem, and supply service had not been ted by the contractor hired by the magement). It was reported that y, otherwise it would be not operational tenance is estimated at RY 230,000.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Und available. Borehole pur community (a overhaul and after six (6) r Pump unit for Capacity/For the current demandation of the curr	supply schentil 1995, there mp unit (submadministrative donsiderable months. Their borehole is roe power (48 emand. roe power (26 and.	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessar cost for overhaul and maintenance in the scheme material maintenance is necessar cost for overhaul and mai	although the borehole was constructed m, and supply service had not been ted by the contractor hired by the inagement). It was reported that y, otherwise it would be not operational itenance is estimated at RY 230,000. Durs in a day. The hole pump unit is not enough to satisfy the
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Und available. Borehole pur community (a overhaul and after six (6) r Pump unit for Capacity/For the current d Capacity/For current demail Diameter of	supply schentil 1995, there mp unit (submadministrative donsiderable months. Their borehole is roe power (48 emand. roe power (26 and. pipeline instal	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessar cost for overhaul and maintenance in the scheme material maintenance is necessar cost for overhaul and mai	although the borehole was constructed m, and supply service had not been ted by the contractor hired by the inagement). It was reported that y, otherwise it would be not operational itenance is estimated at RY 230,000. Durs in a day. The hole pump unit is not enough to satisfy the satisfy the current demand.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Und available. Borehole pur community (, overhaul and after six (6) r Pump unit for Capacity/For the current d Capacity/For current demail Diameter of Thirty seven	supply schentil 1995, there mp unit (subm Administrative d considerable months. Their borehole is ree power (48 emand. ree power (26 and. pipeline instal (37) (sub-) vi	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessar cost for overhaul and maintenance in the scheme material maintenance is necessar cost for overhaul and mai	although the borehole was constructed m, and supply service had not been ted by the contractor hired by the inagement). It was reported that y, otherwise it would be not operational itenance is estimated at RY 230,000. Durs in a day. The hole pump unit is not enough to satisfy the repump is not enough to satisfy the satisfy the current demand.
	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Und available. Borehole pur community (, overhaul and after six (6) r Pump unit fo Capacity/For the current d Capacity/For current demails and control to the current demails a	supply schentil 1995, there mp unit (subn Administrative di considerable months. Their borehole is ce power (48 emand. ce power (26 and. pipeline instal (37) (sub-) vin extension pl	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessar cost for overhaul and maintenance in the scheme material maintenance is necessar cost for overhaul and maintenantly operating 8-10 hours.  KW) of generator for boost lied is not large enough to liages, each village consisten, additional thirteen (13)	although the borehole was constructed m, and supply service had not been ted by the contractor hired by the inagement). It was reported that y, otherwise it would be not operationa itenance is estimated at RY 230,000. Durs in a day. The hole pump unit is not enough to satisfy the repump is not enough to satisfy the satisfy the current demand. Iting of 15-40 households, are currently (sub-) villages would be covered.
oper No.	Security Observation ATION AND MAINTENANCE PANEL Item No. of Village Head (Sheikh) No. of Tribe	Public Tapst House Conn  1 1 The existing in 1982. Und available. Borehole pur community (and overhaul and after six (6) r Pump unit for Capacity/For the current demail Capacity/For current demail Diameter of Thirty seven served. With Legal owners	supply schentil 1995, there mp unit (subn Administrative d considerable months. The roce power (48 lemand. ce power (26 and. pipeline instal (37) (sub-) vin extension plaship is not arm	Description  ne was completed in 1995, had been no supply systemersible pump) was inspected Board for the scheme material maintenance is necessar cost for overhaul and maintenance in the scheme material maintenance is necessar cost for overhaul and mai	although the borehole was constructed m, and supply service had not been ted by the contractor hired by the magement). It was reported that y, otherwise it would be not operational tenance is estimated at RY 230,000. Durs in a day. The hole pump unit is not enough to satisfy the repump is not enough to satisfy the satisfy the current demand. Ling of 15-40 households, are currently (sub-) villages would be covered.

	Mode of Management Entity	formed by twenty one (21) In the same year, the Mon consisted of five (5) comm (1), c) treasure (1), d) tech Administrative Board mem Administrative Board furth Before 1999, the scheme	tion of Governor, appointed Monitoring/Consulting Committee community members in 1999. itoring/Consulting Committee appointed Administrative Board nunity members as followed; a) director (1), b) financial manager inical supervisor (1), e) accountant (1). abership is recognized by Local Council. er appointed two (2) operators. had been managed by one (1) Aqil.	
	Organizational Management	Managerial decisions enta Monitoring/Consulting Cor by Administrative Board. Terms of office for Administrative for cuinstead of appointment, is		
	Technical Operation and Maintenance	Maintenance of submersit and rods, of which cost an Maintenance of generator	x 200 pipes) was carried out by the community.  ble pump for borehole was carried out in 2003 replacing impeller nounting to YR 1.2 million borne by the scheme account.  was undertaken by the community.	
	Financial Management and Transparency	Tariff Structure:  Water provided through post Water is provided at free containing water from public Water bills are prepared a households. Revenue col revenue.  The scheme account is ausix (6) months.  Income in average:  Expenditure in average:  Expenditure break down:  One (1) percent of income	t Administrative Board Office, then, distributed to each user lector visits each village, calls user households, and collects under the distributed by Monitoring/Consulting Committee each after three (3) to YR 250,000/month YR 210,000/month YR 130,000   Fuel YR 10,000   Communication, transportation YR 51,000   Salary/Allowance YR 7,000   Bonus Is paid to Local Council as tax. YR 15,000/month   Manager, and Financial Manager YR 12,000/month   Plumber YR 15,000/month   Operator (a) YR 9,000/month   Operator (b) YR 7,000/month   Accountant, and other Board Members	
	Stakeholder Involvement / Responsibility Sharing	Local Council undertook community mobilization to form CBO (Monitoring/Consulting Committee and Administrative Board).  The scheme account is audited by Local Council every 3 months.  GARWSP provides (technical) supervision.		
	Community Contribution	installation of five (5) publ	s followed; 1) construction of pump house, 2) house connection, 3) ic stands, 4) extension of pipelines.	
	Community Contracting-Out	There is no regular private The Administrative Board submersible pump.	e contracting-out settings. hired engineering company to investigate generator and	
	Conflict Resolution	No conflict cases are repo	orted.	
	Pro-Gender and Pro-Poor	<del>                                     </del>		
I	Remarks	<del></del>	additional water tank and pipeline extension.	

SILE II No.	DENTIFICATION PANEL Item		Description	
INU.	Code No.	T-05	- Dodonphon	
	Site Name	Al Azaez		
	District	Al Shamayaten		
	Governorate	Taiz	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Annual precipitation (rainfall)	470 mm		
	Population (2006)	11,784		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Population Forecast (2016)	15,040 Name	Population Househ	old : Coordinate (Laf / Lon)
		Deabash	Population Househ	old Cooldinate (Lat / Lon)
- · ·	į	Al Naid		
		Manjara		
		Al Kareef		
		Al Maidan Al Sharaf		
	1	Al Darkama	- · · · · · · · · · · · · · · · · · · ·	
		Al Dhua'a		
		Al Zareebah Dar Al Beer		
	_	Al Sugam		
	.i 	Al Saraha		
		Nawbat Al Beer		
		Hushaifa		
		Al Dumna Kuraiker		
	1	Al Qubah	-	<del>-  </del>
	-	Al Me'alaf		
	1	Hawob Ana'am		
		Akmat Al Aumq Al Aumq	<u> </u>	
	<u>.</u>	Al Tayari		
	-	Al Kadarah		
	1	Al Qawoz		
	•	Muhaiserari		
		Al Jame'e Al Khazega		
	.]	Al Magla		
	i	Hadha		
	ገ -	Al Matnah		
	1 <u>1</u>	Al Musaifer Al Sawon		
		Al Akami Al Sawda		
<del></del> -	i	Al Rehnat		
	; ;	Al Maznam		
		Haigat Al Howb Sha'ab Rashed		
		Al Hahjrain	<del> </del>	
		Al Ta'won	-   i	
		Qama'rah		
	Village (Qariah) in the Community	Qahfat Aiyash Al Showaib	· · · · · · · · · · · · · · · · · · ·	
		Al Kadrah		
		Al Janad		
	`	Al Makhbey		
	! 	Al She'bain Al Nazeeha		
		Al Door		··· ·· <del>[··</del>
	! 1	Sha'ab Al Saif	<del></del>	
		Sha'ab Ateyah		
		Al Rawo Sakrah		
	1	Al Qefgaf		'
	1	Al Mebraa	·	
	- - -	Al Haleeh	i	!
	 	Al Mansourah Manaha Al Olya	1	<u> </u>
		Manaha Al Sufla		:
		Al Jandain & Makshara		
		Al Shareja	<u> </u>	
		Khalala		i
	1	Al Mehaal Al Asalam	j	
	†	Ma'bal	i	· ·
		Saferah		
		Qahfat Al Safa & Al Moqah	Wi	
	<u> </u>	Al Marow Al Kamar		<u></u>
•	! 	Hakeema	<u> </u>	
	<u> </u>	Al Sha'ab		:
		Al Kharoot		
		Al Humor Muhailega	!	
		Al Magsoos	<u> </u>	
	•	Al Arazah		:
	-   -	Al Qowab		1
	]	Al Awass		
	!	Al Adana Al Negag		· · · · · · · · · · · · · · · · · · ·
		Al Khad		
	· -	Al Suad		
	•	Al Maqareedh		

EXISTING WATER SUPPLY SCHEME PANEL

	Item	L	Description				
	Functioning	Functional			<u>r dinak</u>		
	Components of Existing Water Supply Scheme		Speci	fication	Condition	Year	Fund
		Pump for Deep Well (1)	Vertical	CAPRARI	Overhaul free	1985	SHC
		Marda'a Alhomary Engine for Deep Well (1)		:			
		Marda'a Alhomary		Perkins		2004	Village
		Pump House for Deep		i ·		4005	
		Well (1) Marda'a	RC	i !		1985	Village
		Pump for Deep Well (2)	Vertical	CAPRARI	Overhaul fred	1993	Min. Agric
		Sohayb				,,,,	
		Engine for Deep Well (2) Sohayb		Technodrive		1993	Min. Agric
	· · · · · · · · · · · · · · · · · · ·	Pump House for Deep		<u> </u>		(222	3.2411
		Well (2) Sohayb	RC			1992	Village
		Pump for Deep Well (3)	Submersible	ļ	GRUNDFOS	2003	GARWSP
	: 	Wadi Masan Generator for Deep Well		İ			
		(3) Wadi Masan	116kVA	John Deere		2003	GARWSP
		Pump House for Deep	DC		:	4000	VOADEM
		Well (3) Wadi Masan	RC		l	1996	VGAREW
		Pump for Spring (1)	Vertical	GRUNDFOS	}	1979	Village
		Engine for Spring (1)		Lister		1979	Village
		Pump for Spring (2)	Vertical, 30 r	GRUNDFOS	3	1979	SHC
		Engine for Spring (2)		DORMAN		2003	
		Pump House for Spring	RC			1980	Village
		(1&2)		045545			
		Pump for Booster	Horizontal	CAPRARI			Village
		Engine for Booster		Perkins			Village
		<u>'</u>	<u> </u>				Village
		Booster Tank	RC	60m3	Also distribut		
		Distribution Tank No.1	RC	30m3	Not used not	1979	
		Distribution Tank No.2	RC	200m3	Now too sma		SHC
					† I	1979-1996	4
		Pumping Main	SGP	<u></u>	ļ		1
		Distribution Main	SGP	7.5		1979 on	Village+SHC
		Distribution Main Public Tapstand	SGP 22 for mosqu				Village+SHC
		Distribution Main Public Tapstand House Connection	SGP 22 for mosqu 1,501				Village+SHC
	Observations	Distribution Main Public Tapstand House Connection SHC: Southern Highlands	SGP 22 for mosqu 1,501 Corporation.		ools	1979 on	
	Observations	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by	SHC; Boreho	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
		Distribution Main Public Tapstand House Connection SHC: Southern Highlands	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by	SHC; Boreho	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
WATE	R SOURCE PANEL (tem	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh T-05/1 Marda'a Alhomary	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL (tem	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tern [Borehole Code]	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tem] [Borehole Code]  Grid (UTM)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tern  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8"	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tern] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13′ 34.5″ 44°02′ 17.8″ Not working Vertical pum	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	[tem [tem [tem [tem [tem [tem [tem [tem	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8"	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tern] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13′ 34.5″ 44°02′ 17.8″ Not working Vertical pum	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	[tem [tem [tem [tem [tem [tem [tem [tem	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13′ 34.5″ 44°02′ 17.8″ Not working Vertical pum	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8"  Not working Vertical pum 1,377 m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	Item  [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp.	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ble 1 to booste	1979 on er and main ta	ank, 1985 by
	[Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp.	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools  ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	[tem] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools  ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tern] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp.	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools  ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [term] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch  8.2 m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	[tem [tem [tem [tem [tem [tem [tem [tem	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch  8.2 m 53.39 m 45.19 m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	[Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch  8.2 m 53.39 m 45.19 m 32 g/min	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	[tem] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch 8.2 m 53.39 m 45.19 m 32 g/min 0.044 L/s/m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	[tem] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch  8.2 m 53.39 m 45.19 m 32 g/min 0.044 L/s/m 167.5 mS/m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	R SOURCE PANEL  [tern] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch  8.2 m 53.39 m 45.19 m 32 g/min 0.044 L/s/m 167.5 mS/m 7.03	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by
	[tem] [Borehole Code]  Grid (UTM)  Grid (Lat/Lon)  Present Condition (Pump Type)  Elevation (m)  Aquifer/Geological Description  Year of Construction  Fund  Depth (m)  Casing Diameter (inch)  Screen  Static Water Level (G.Lm)  Dynamic Water Level (G.Lm)  Drawdown (m)  Discharge (g/min)  Specific Capacity  EC (mS/m)	Distribution Main Public Tapstand House Connection SHC: Southern Highlands *Pumping main: spring to SHC; Borehole 2 to boreh  T-05/1 Marda'a Alhomary North East 1462356 395783 Lat. N Lon. E 13°13' 34.5" 44°02' 17.8" Not working Vertical pum 1,377 m  1985 Southern Highlands Corp. 120 m 8-5/8 inch  8.2 m 53.39 m 45.19 m 32 g/min 0.044 L/s/m 167.5 mS/m	SGP 22 for mosqu 1,501 Corporation. tank, 1979 by ole 1, 1985 by	SHC; Boreho y villlage; Bor Description	ools ole 1 to booste ehole 3 to tanl	1979 on er and main ta	ank, 1985 by

Description

【Boreho	ole Code]	T-05/2 Soha	yb	
Grid (UT	rm)	North	East	
Olid (O1		1462113	396109	
C=:4 (1 =	4/I\	Lat. N	Lon. E	
Grid (Lat	(VLOII)	13°13' 27.2"	44°02' 28.4"	
Present	Condition (Pump Type)	Working	Vertical pum	ID
Elevation		1,379		
	Geological Description			
	Construction	1992		
	Construction			1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Fund		Village		
Depth (n		120		
·Casing [	Diameter (inch)	8-5/8	inch	
Screen				
Static W	ater Level (G.Lm)	9	m	
	Water Level (G.Lm)	50	m	
Drawdov		41		
	ge (g/min)		g/min	2.0 L/sec
		32	y/min	2.0 L/sec
	Capacity		L/s/m	
EC (mS/	/m)		mS/m	
pН		6.9	<u></u>	
Tempera	ature ('C)	28.1		
Remarks			ent, cannot u	
	le Code]	T-05/3 Wadi		
1		North	East	The state of the s
Grid (UT	「M)		L	
		1460825	396602	
Grid (Lat	t/Lon)	Lat. N	Lon. E	
O.10 (E.a.	0.2011)	13°12' 45"	44°02' 45"	
Present	Condition (Pump Type)	Working	Submersible	pump
Elevation		1,418		
	Geological Description	1,111		The second secon
	Construction	1996	Ţ	
	Construction			
Fund		GARWSP		The state of the s
Depth (n		160		
Casing [	Diameter (inch)	8-5/8	inch	
Screen				
Static W	ater Level (G.Lm)	80?	m	
	: Water Level (G.Lm)	120?	m	
Drawdov		40		
		•		0.017
	ge (g/min)	ir ·	g/min	8.3 L/sec
	Capacity	0.208	L/s/m	
EC (mS/	/m)	 	mS/m	
pН				
Tempera	ature ('C)		~	
!		l		
Remarks	\$	Impeller drop	ped in well, b	but does not affect pumping rate?
[Spring (	Code1	 Spring (Al Ha	gareen)	
		North	East	
Grid (UT	M)			
		1462162	400154	
Grid (Lat	t/Lon)	Lat. N	Lon. E	
	•	13°13' 28.9"	44°04' 42.7"	
Drecort	Condition (Pump Type)	Working	Vertical pum	
Frescill		1,569		
	II (III)	, ,,,,,		<u> </u>
Elevation		ř		
Elevation Aquifer/0	Geological Description	1070	[	
Elevation Aquifer/0 Year of 0		1979		
Elevation Aquifer/O Year of O Fund	Geological Description Construction		and SHC70%	
Elevation Aquifer/0 Year of 0 Fund Depth (m	Geological Description Construction n)		nd SHC70% m	
Elevation Aquifer/0 Year of 0 Fund Depth (m	Geological Description Construction		and SHC70%	
Elevation Aquifer/0 Year of 0 Fund Depth (m	Geological Description Construction n)		nd SHC70% m	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen	Geological Description Construction n) Diameter (inch)	Village30% a	m inch	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Wa	Geological Description Construction  n) Diameter (inch)		and SHC70% m inch	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Wa	Geological Description Construction  n) Diameter (inch) ater Level (G.Lm) to Water Level (G.Lm)	Village30% a	m inch m	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Wand	Geological Description Construction  n) Diameter (inch)  ater Level (G.Lm) vn (m)	Village30% a	m inch m	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Wand Dynamic Drawdow Discharg	Geological Description Construction  n) Diameter (inch)  ater Level (G.Lm)  Water Level (G.Lm)  vn (m) ge (g/min)	Village30% <i>a</i>	nd SHC70% m inch m m m g/min	0.0 L/sec
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Wa Dynamic Drawdow Discharg Specific	Geological Description Construction  n) Diameter (inch)  ater Level (G.Lm) a Water Level (G.Lm) vn (m) ge (g/min) Capacity	Village30% a	nd SHC70% m inch m m m g/min L/s/m	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Water Dynamic Drawdow Discharg	Geological Description Construction  n) Diameter (inch)  ater Level (G.Lm) a Water Level (G.Lm) vn (m) ge (g/min) Capacity	Village30% a	nd SHC70% m inch m m m g/min	
Elevation Aquifer/C Year of C Fund Depth (m Casing D Screen Static Wa Dynamic Drawdow Discharg Specific	Geological Description Construction  n) Diameter (inch)  ater Level (G.Lm) a Water Level (G.Lm) vn (m) ge (g/min) Capacity	Village30% a	m inch m g/min L/s/m mS/m	
Elevation Aquifer/C Year of C Fund Depth (m Casing E Screen Static Wa Dynamic Drawdow Discharg Specific (mS/c)	Geological Description Construction  n) Diameter (inch)  ater Level (G.Lm)  w (m) ge (g/min) Capacity m)	Village30% a	m inch m g/min L/s/m	

No.	R SUPPLY PLANNING PANEL Item	Description						
*	[Design Parameter]	- · · · · · · · · · · · · · · · · · · ·	:					
	No. of Villages in Total							
	No. of Villages to be Covered							
	Current Population (2006)	11,784	· · ·		and the state of t			
	Design Population (2016)	15,040						
	Design Water Supply Rate		L/c/d	451 m <sup>3</sup> /day				
	Type of Work Required	Rehabilitation	 1					
	Required Facilities	Comp		Constructed by	Notes			
	Required racinites	Pump for Dec						
	İ	Marda'a Alho		Donor	Replace			
	<u> </u>	Engine for De						
		Marda'a Alho		Donor	Replace			
<del></del> -		Pump House						
		Well (1) Marc						
	<u> </u>	Pump for De			·			
			sp well (2)	Donor	Replace			
		Sohayb Engine for De	on Moli (2)					
	İ		sep well (2)	Donor	Replace			
		Sohayb Pump House	é D					
					1			
	ļ <u> </u>	Well (2) Soha	ayD					
	İ	Pump for De	eb weii (3)					
	<u> </u>	Wadi Masan	D					
		Generator for		<u> </u>				
		(3) Wadi Mas						
		Pump House			į			
	]	Well (3) Wad	i Masan	<u></u>				
		Pump for Spi		Donor	Replace			
		Engine for Sp	oring (1)	Donor	Replace			
		Pump for Spi	ring (2)	Donor	Replace			
		Engine for Sp	oring (2)	Donor	Replace			
		Pump House						
		(1&2)			1			
		Pump for Bo	oster	Donor	Replace			
		Eng./Gen. for		Donor	Replace			
		·   · <del> </del>		DOI 101	replace			
	<u></u>	Pump House		ļ	F			
		Booster Tank			Expansion			
		Distribution T			Expansion			
/	<u> </u>	Pumping Mai			Replace			
		Distribution N			Replace			
	<u> </u>	Public Tapsta						
		House Conn	ection	Village	<u> </u>			
	Accessibility							
	Security	-						
	Observation							
Jii.	ATION AND MAINTENANCE PANEL							
).	ltem		-	Description	on			
•	No. of Village Head (Sheikh)	-			10 10 10 10 10 10 10 10 10 10 10 10 10 1			
	<del></del>	<del> </del>	_ ·	<del>- ;</del>	The second secon			
	No. of Tribe	D'	l		25 to the content to the least of the least			
					35 to the water tank was installed by			
	-	Ministry of Agriculture and Irrigation, while one from borehole of '93 to the tank was insta						
		The served area is divided into three (3) zones for operational purpose.						
		The scheme	is covering to	wo thirds (2/3) of whole U	Izula.			
	Observation in Current Supply Scheme	There are 82	sub-villages	or Mahal, each of which	is composed of 10-15 households.			
	11.7	The scheme	operation wa	is commenced serving 30	00 households. The scheme has bee			
					the capacity of water source and tank			
		pipe diamete	r and undula	tion in pipe installation, a	nd other technical factors in the schel			
		pipe diamete Al-Azaiz is na	r and undula ame of Uzula	tion in pipe installation, a				
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners	r and undula ame of Uzula ship is arrang	tion in pipe installation, a led by written agreement	with GARWSP.			
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners Administrativ	r and undula ame of Uzula ship is arrang e Board has	tion in pipe installation, a led by written agreement been established and re	sponsible for the scheme managemer			
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners Administrativ	r and undula ame of Uzula ship is arrang e Board has	tion in pipe installation, a led by written agreement been established and re	with GARWSP. sponsible for the scheme managemer			
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners Administrativ	r and undula ame of Uzula ship is arrang e Board has embly, comp	tion in pipe installation, a led by written agreement been established and re	with GARWSP. sponsible for the scheme managemer			
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners Administrativ General Asso Board memb	r and undula ame of Uzula ship is arrang e Board has embly, comp ers.	tion in pipe installation, a led by written agreement been established and re- osed of 1,500 users, is ca	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria			
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners Administrativ General Assa Board memb Directorial Bo	r and undula ame of Uzula ship is arrang e Board has embly, comp ers. pard appointe	tion in pipe installation, a led by written agreement been established and re- osed of 1,500 users, is ca- ed four (4) Administrative	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria Board members, which is composed			
	Mode of Ownership	pipe diamete Al-Azaiz is na Legal owners Administrativ General Asso Board memb Directorial Bo a) director (1	r and undula ame of Uzula ship is arrang e Board has embly, comp ers. pard appoints ), b) account	tion in pipe installation, a led by written agreement been established and re- osed of 1,500 users, is ca ed four (4) Administrative ant (2), and c) Treasurer	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria Board members, which is composed (1).			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Asso Board memb Directorial Bo a) director (1 Administrativ	r and undula ame of Uzula ship is arrang e Board has embly, comp ers. pard appointe ), b) account e Board is el	tion in pipe installation, a led by written agreement been established and re- osed of 1,500 users, is ca- ed four (4) Administrative ant (2), and c) Treasurer mploying the following op	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria Board members, which is composed (1). erational staff on contract bases; a)			
	Mode of Ownership  Mode of Management Entity	pipe diamete Al-Azaiz is na Legal owners Administrativ General Asso Board memb Directorial Bo a) director (1 Administrativ	r and undula ame of Uzula ship is arrang e Board has embly, comp ers. pard appointe ), b) account e Board is el	tion in pipe installation, a led by written agreement been established and re- osed of 1,500 users, is ca ed four (4) Administrative ant (2), and c) Treasurer	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria Board members, which is composed (1). erational staff on contract bases; a)			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Asse Board memb Directorial Bo a) director (1 Administrativ operator/wate	r and undula ame of Uzula ship is arrang e Board has embly, comp ers. oard appointe ), b) account e Board is el chman/bill di	tion in pipe installation, a led by written agreement been established and re- posed of 1,500 users, is called four (4) Administrative ant (2), and c) Treasurer imploying the following op- stributor (4), b) plumber (4)	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria Board members, which is composed (1). erational staff on contract bases; a) 4), c) meter reader (1).			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Asse Board memb Directorial Bo a) director (1 Administrativ operator/wate First CBO wa	r and undula ame of Uzula ship is arrang e Board has embly, comp- ers. oard appointe ), b) account e Board is el chman/bill dia as establishe	tion in pipe installation, a led by written agreement been established and re- posed of 1,500 users, is cal- ed four (4) Administrative ant (2), and c) Treasurer imploying the following op- stributor (4), b) plumber ( d in 1979 and the same (	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directoria Board members, which is composed (1). erational staff on contract bases; a) 4), c) meter reader (1). CBO setting had been continued till 20			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Asse Board memb Directorial Bo a) director (1 Administrativ operator/wate First CBO wa In 2005, first	r and undula ame of Uzula ship is arrang e Board has embly, comp- ers. oard appointe ), b) account e Board is el chman/bill dis as establishe election was	tion in pipe installation, a led by written agreement been established and re- posed of 1,500 users, is cal- ed four (4) Administrative ant (2), and c) Treasurer imploying the following op- stributor (4), b) plumber ( d in 1979 and the same ( conducted under curren	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directorial Board members, which is composed (1). erational staff on contract bases; a) 4), c) meter reader (1). CBO setting had been continued till 20 to CBO setting. In January 2006, seco			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Assa Board memb Directorial Bo a) director (1 Administrativ operator/wate First CBO was In 2005, first election was	r and undula ame of Uzula ship is arrang e Board has embly, comp ers. oard appointe ), b) account e Board is el chman/bill dia as establishe election was conducted (I	tion in pipe installation, a led by written agreement been established and re- beed of 1,500 users, is cal- ed four (4) Administrative ant (2), and c) Treasurer imploying the following op- stributor (4), b) plumber ( d in 1979 and the same ( conducted under current Director is unchanged) fo	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directorial Board members, which is composed (1). erational staff on contract bases; a) 4), c) meter reader (1). CBO setting had been continued till 20 to CBO setting. In January 2006, seco			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Asse Board memb Directorial Bo a) director (1 Administrativ operator/wate First CBO was In 2005, first election was under Ministr	r and undula ame of Uzula ship is arrang e Board has embly, comp- ers. oard appointe ), b) account e Board is el chman/bill di- as establishe election was conducted (if	tion in pipe installation, a led by written agreement been established and re- posed of 1,500 users, is cal- ed four (4) Administrative ant (2), and c) Treasurer imploying the following op- stributor (4), b) plumber (4 d in 1979 and the same (4 conducted under current Director is unchanged) for ffairs.	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directorial Board members, which is composed (1). erational staff on contract bases; a) 4), c) meter reader (1). CBO setting had been continued till 20 to CBO setting. In January 2006, secollowing procedures for CBO registration			
		pipe diamete Al-Azaiz is na Legal owners Administrativ General Asse Board memb Directorial Bo a) director (1 Administrativ operator/wate First CBO was under Ministr Current CBO	r and undula ame of Uzula ship is arrang e Board has embly, comp- ers. oard appointe ), b) account e Board is el chman/bill dia as establishe election was conducted (I y of Social A	tion in pipe installation, a led by written agreement been established and re- beed of 1,500 users, is cal- ed four (4) Administrative ant (2), and c) Treasurer imploying the following op- stributor (4), b) plumber ( d in 1979 and the same ( conducted under current Director is unchanged) fo	with GARWSP. sponsible for the scheme managemer alled and elected fifteen (15) Directorial Board members, which is composed (1). erational staff on contract bases; a) 4), c) meter reader (1). CBO setting had been continued till 20 to CBO setting. In January 2006, secollowing procedures for CBO registration of Social Affairs.			

	The Administrative Board under Ministry of Social At	and other CBO setting for fairs, with supervision of l	r the scheme management are registered Local Council and GARWSP.		
	Constitution of Administra	tive and Directorial Board	is prepared.		
	Constitution of Administrative and Directorial Board is prepared. Important decisions in the scheme management are made in the Directorial Board members.				
	Important decisions in the	Scriente management are	peration and maintenance.		
Organizational Management	The Administrative Board	mombors mentioned that	the all managerial decisions are made		
	by Directorial Paged (not h	w calling Congral Assemb	oly). It gives impression that the Board is		
		y calling General Assorti	sty). It gives improbation that the pourt is		
	somehow dictating.  Terms of Office for Administrative and Directorial Board are set for three (3) years under				
	their constitution. However	er extension of terms of o	office is currently under consideration,		
	prolonging them for six (6) years in accordance with ones for parliament				
Technical Operation and Maintenance	Spring/Darn with pump unit is operated for 15 hours, while borehole with pump unit is				
	operated for 20 hours.				
	A Borehole was constructed and pump unit was installed by the community (the scheme				
	management).				
	Booster pumps have been	n replaced six (6) times, w	ith the cost borne by the community (the		
	scheme account). Last re				
	Maintenance of main pipe	line from boreholes (cons	structed in '85 and '92) was carried out by		
į	the community (the schen				
	General Assembly meeting	g is first called in Jan 200	06 as the registration process of CBO for		
	water scheme manageme	ent. In the meeting, finance	cial status of the scheme was reported.		
		1-3 m3 YR 450 as	basic charge		
	Tariff Structure:	3-14 m3 YR 120/m3			
		> 15m3 YR 150/m3	3		
	Income in last month:	YR 1,171,440			
	Expenditure in last	YR 687,215			
		YR 219,000 Fuel			
		YR 293,000 Salary			
	Expenditure break down	YR 16,000 Allowance			
	in last month:	YR 15,000 Others (Communication, electricity, transport, etc.)			
! i		YR 35,000 Maintenance			
Financial Management and Transparency	Income in average: YR 1,000,000				
	Expenditure in average:	YR 700,000			
	Expolitation in accordance	YR 50,000/month	Мападег		
		YR 27,500/month	Treasurer		
		YR 27,500/month	Accountant		
!	Personnel Cost:	YR 24,000/month	Plumber		
		YR 24,000/month	Operator/watchman/bill distributor		
		YR 24,000/month	Meter reader		
	Pick-up truck was purcha				
	hy Bill Distributors - Boyo	Water bills are prepared by the Administrative Board and distributed to each user househol by Bill Distributors. Revenue is collected at the office of Administrative Board.			
<u> </u>	Monitoring Committee is formed for auditing the scheme account.  GARWSP and Local Council were involved in the CBO registration process under Ministry				
Stakeholder Involvement / Responsibility Shari		incii were involved in the i	CBO registration process under withistry		
- Ctarcinology involvement temperature		A / A	notorial Boards) owns the following asset		
	The scheme management (Administrative and Directorial Boards) owns the following asset				
	a) office, b) store room in each pump house, c) main storehouse beside the office, d) stock				
Community Contribution	of spare parts, e) pick-up truck.  House connections were carried out by the users.				
•	One borehole with pump unit is constructed in 1992 by the scheme management.				
<u> </u>					
Community Contracting-Out	Operation workers are hired on contract bases.				
<u> </u>	There is no private contracting-out setting.				
Conflict Resolution	No conflict cases are mentioned.				
Pro-Gender and Pro-Poor	N/A				
Remarks	There are needs perceiv enlargement of pipeline of		s that increase of tank capacity and		

SITE	DENTIFICATION PANEL								
No.	<u>item</u>	!			Description			Tarak Maria	
	<u> </u>	T-06			r				
	Site Name	Al Khunha		·					
	Sub-District (Uzlat)	Al Khunha				·····			
	District	Al Wazieyah				<u> </u>			
	Governorate	Taiz						National Control	
	0	Latitude	Longitude						
	Coordinates		T						
	Coordinates (Measured Location)	<del>!</del> !	<u></u>						
	Annual precipitation (rainfall)	250	mm		english in delication	1.5		, <b>4</b> (100 m)	
		1,579			-	<u> </u>		1.00	
	Population Forecast (2016)	2,015							
	No. of Village (Qariah) in Total	2,010	Γ	<u> </u>			180	J. S. 7554	
	No. of Village (Qariah) to be served	·				ranger (n. 1945) Transport	. p	District Assessment of the Control o	
	TWO. OF Vinage (Garian) to be served	N <sub>S</sub>	ime	Popu	ılation	Household	Coordinate	(Lat / Lon)	
	_	Al Khunha	ine	Гори	550	1	13°06' 15"	43°44' 48"	
	 		10-4-						
	Village (Qariah) in the Community	Al Karbah A		<u> </u>	144	i	13°05' 01"	43°44' 59"	
	 -	Al Hayemah		<u> </u>	577		13°06' 54"	43°44' 00"	
		Al Karabah /	Al Uliyah	ļ	308	64	ļ		
EXIST	ING WATER SUPPLY SCHEME PANEL								
No.	ltem	<del></del>			Description				
	Functioning	No existing			42				
	Components of Existing Water Supply Scheme	Com	ponent	Speci	fication	Condition	Year	Fund	
		Pump for De	ep Well		İ	1			
		Eng /Gen. fo	r Deep Well			1	<del></del>		
		Pump House	e for Deep We	e	1	<u> </u>			
		Pump for Bo	oster	-					
		Eng./Gen. for Booster Pump House for Booster		+	1		···	<u></u>	
					<del> </del>	† · · · · · - <del></del>	<u> </u>	-	
		Booster Tan						<u>,                                      </u>	
		Distribution Tank							
		Pumping Main Distribution Main		<del>i</del>				<u> </u>	
				1	ļ				
	<u> </u>	Public Tapsi		-	<del> </del>				
		House Conn		-1	1	! !	<u> </u>		
		Tiouse Com				•	<u> </u>	i 	
	Observations	!							
	R SOURCE PANEL	I			Description				
No.	Item	· · · · · · · · · · · · · · · · · · ·			Description			rigina na sakiji (ko.	
	[Borehole Code]	<del> </del>						2.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1	
	Grid (UTM)	North	East						
		1449177	364618			<u> </u>			
	- Grid (Lat/Lon)	Lat. N	Lon. E						
	Cha (Easton)		' <sup>1</sup> 43°45' 03.9'	n		<u> </u>			
	Present Condition (Pump Type)	Capped (Flo	wing)						
	Elevation (m)	539	) m				Section 1		
	Aquifer/Geological Description	-							
	Year of Construction	2004				1 1 2			
	Fund	GARWSP							
	Depth (m)	200 m		·   · · <del>- · · · · · · · · · · · · · · · · </del>					
	Casing Diameter (inch)	8 inch			-	1.14.1.			
	Screen	50m-56m, 83m-98m, 116m		_/ im-188m	<del></del>				
	Static Water Level (G.Lm)	-0.53 m		T		:		The gladyleins	
	Dynamic Water Level (G.Lm)	5.14 m		-	7.		- 14	- V	
	<u> </u>	5.67 m		<u> </u>	- <u>*</u> - * * * * * * * * * * * * * * * * * *				
	Drawdown (m)			-	1 /000				
	Discharge (g/min)	140 g/min 1.552 L/s/m		8.8	L/sec	1 .		gg til Måde skl. Gådet for et has sk	
	Specific Capacity								
	EC (mS/m)		mS/m						
	pH	7.21						<u> </u>	
	Temperature ('C)	39.5	5)		<u> </u>		<u>a sua subblica</u>	The state of	
	Remarks	i							

WAT	ER SUPPLY PLANNING PANEL							
No.	Item			Description				
	[Design Parameter]							
	No. of Villages in Total	0				The State of the		
	No. of Villages to be Covered	0	·			<u> </u>		
	Current Population (2006)	1,579	and the state of t					
	Design Population (2016)	2,015		<u> </u>				
	Design Water Supply Rate	40 L/c		81 m <sup>3</sup> /day				
	Type of Work Required	New construction	L					
	Required Facilities	Compon		Constructed by		Notes		
. —		Pump for Deep			New			
		Eng./Gen. for D			New			
		•	r Deep We Donor/Vill	lage	New			
		Pump for Boost			i I			
	1	Eng./Gen. for B						
		Pump House for	r Booster		!			
		Booster Tank	Ĭ <u>.</u>					
		Distribution Tan	k Donor		New			
		Pumping Main	Donor		New			
		Distribution Mai	n Donor					
		Public Tapsland	i Donor	Donor		New (for mosque, school and clinic on		
		House Connect			New			
	Accessibility	Site approached	d through wadi, so di	fficult in rainy se	ason			
	Security							
	Observation							
OPE	RATION AND MAINTENANCE PANEL							
No.	Item	Description					_	
	No. of Village Head (Sheikh)	!	V				<u> </u>	
	No. of Tribe	!		<u>. 1937.</u>	1 - 1 - 1 - 1 - 1 - 1 - 1		3-4-7 F	
	Observation in Current Supply Scheme							
	Mode of Ownership				<u> </u>			
	Mode of Management Entity				1			
	Organizational Management				İ			
	Technical Operation and Maintenance							
1	Financial Management and Transparency				<u> </u>			
	Stakeholder Involvement / Responsibility Sha	aring						
Ī	Community Contribution							
	Community Contracting-Out							
·	Conflict Resolution	-						
I	Pro-Gender and Pro-Poor				!			
-	Remarks							