

Project: ANTINOMOS
Report on Indigenous Technologies

Case No: 1

Step 1 – Description

- 1. Name of Technology to be evaluated:** ‘ Ω ’ System (Known as Reverse U system)
- 2. Location where technology is being evaluated:** Varli village in Bhuj district (Gujarat) India.
- 3. Number of people approximately being served by the technology:** 2500
- 4. Since when it is in operation?** 2005
- 5. Who Designed / Planned and who implemented / constructed the technology?**
: A 15 member committee (11men and 4 women) named as “*Pani Samiti*” was formed (Mr. Jaintibhai Ahir, Mr. Babubhai Makwana, Mr. Memabhai Ramjibhai Ahir (Present chairman), Mr. Kanabhai (Ex chairman), Mr. Welgibhai, Mr. Punjabhai Bichawada, Mr. Hematgarbhai Goswami, Mr. Govind Mema, Mr. Keshubhai Malawa, Mr. Sarjanrang Rebari, Mr. Babu Bawla, Mrs. Mogiben Lakhu, Mrs. Jaishreeben Jaishbhai, Mrs. Neeruben, and Mrs. Faridaben Sakoore). First four members were the founder and active members of the committee.
- 6. Who is taking care of the technology now?** Committee known as ‘*Pani Samiti*’.
- 7. Are there any standards available which need to be fulfilled by the technology? If yes which?** Equal distribution of good quality underground water.
- 8. Are operations and maintenance data records available?** Yes (Approximately 500 liters daily water supply per house. The quality of water has always been good in this area. This technology puts more emphasis on the quantity i.e. equal distribution to all which was a problem issue here earlier due to its uneven topography. The quality as such is good and has never been a problem issue.)
- 9. Please provide a brief summary of the history/evolution of this technology in the selected case study:**

Due to the hilly and rugged terrain, Varli village has an uneven topography with some part of the village in low lying area while a part of it in upper reaches. As a result, the area suffered from the problem of water not reaching its upper part. There was no canal

in the area; therefore government started supplying under ground water around 30 years back by building a towering water tank so that water would flow with pressure. But even that system did not work properly because the topography is not on level and therefore the water did not reach the upper areas. Since the water supply was dependent upon the pressure system, therefore even if a single tap was open in the low lying area, the water would not reach the upper parts. As a result, many a times there were disputes too over the issue of water supply to upper parts.

Finally around six years back, fed up of the daily disputes, the villagers held a meeting in order to get some solution. A four member committee named as “*Pani Samiti*” was formed of the active members (namely Jayanti bhai Ahir, Babu bhai, Welgi bhai and Mema bhai) to resolve the problem amicably. The present chairman is Mr. Babu bhai. To solve the problem of finances (as it required a lot of money), they approached WASMO (Water and Sanitation Management Organisation, Gujarat) with their ideas put on paper. After a long discussion with minor changes WASMO agreed to finance the project with 90% of financial help from WASMO and the rest of the 10% as “Lok fala”. Each household was supposed to contribute Rs. 100 though some people who could afford contributed more too for this project.

It is in operation since 2005 but this idea was conceived around a year and a half back. This idea was mainly derived from “*kotha shugh*” (ancient wisdom) that people used to solve the water problem i.e. they built the water tanks on the highest part of their fields so that water could be supplied with the help of pressure even if there was no electricity and secondly the concept of measuring heights of walls with the help of water tubes which is still used even in the present times. Thus these two concepts were practically applied in the form of ‘n’ system.

This system is not a revitalization of any old, existing system and has completely been newly built. It is totally based on new ideas that came up during certain meeting of villagers and was then discussed with WASMO who financed it. Only the bore well was already there. The water supply layout is newly installed i.e. in 2005. There is no other source of water supply. There have not been any modifications of the system as such but

certain other aspects have certainly been added like the sanitation works inspired by the success of water supply distribution.

10. Which were originally the intended direct benefits of this technology?: Equal distribution of drinking water to every household.

11. Brief technical description of the technology:

Water Source: Ground Water

Technical Process: Direct Supply

The committee members decided upon the implementation of reverse U system in the whole village. They built water tank near the bore in the village (located at around 150 meters on the outskirts of the village) so that water could be supplied with the help of pressure even if there was no electricity and secondly the concept of measuring heights of walls with the help of water tubes which is still used even in the present times. Thus,

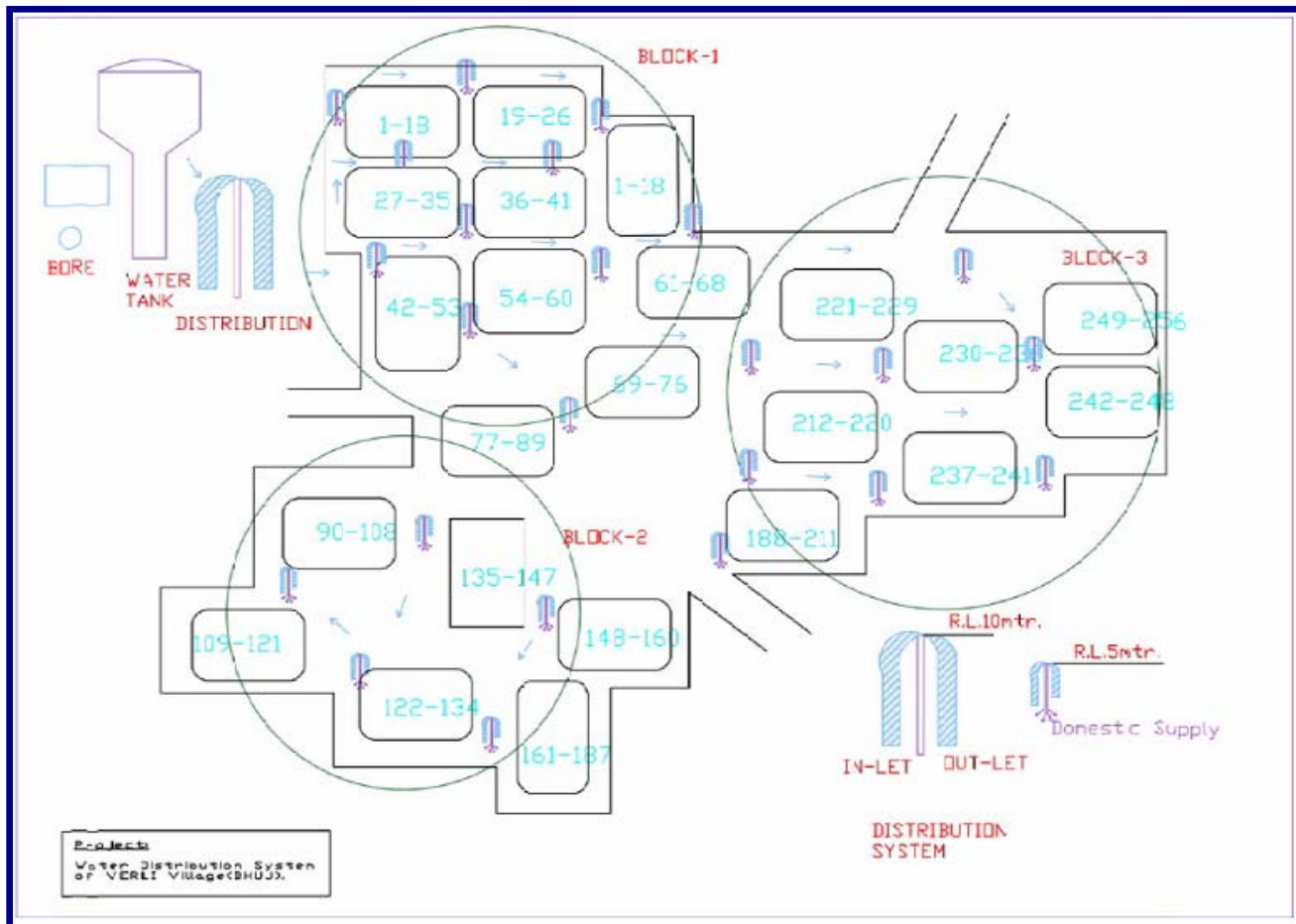


Fig.1: Lay-out of water distribution system in Varli (Bhuj District).

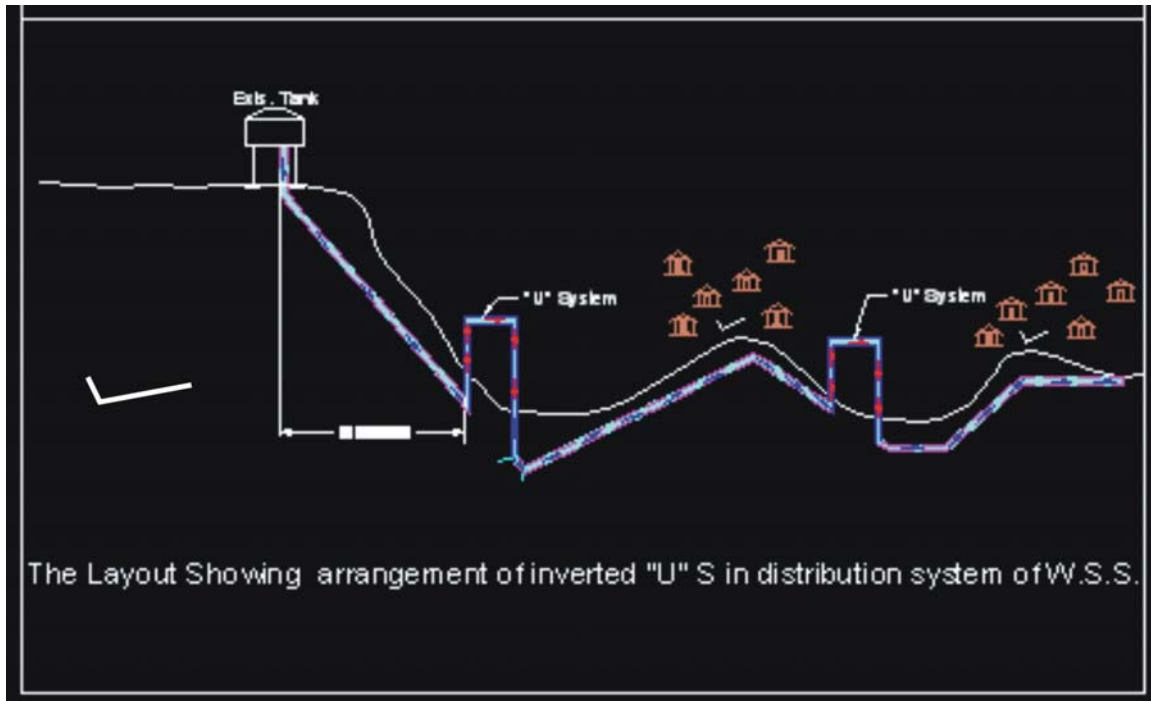




Fig.2: Lay-out of water distribution system in Varli (Bhuj District).




these two concepts were practically applied in the form of reverse U system. Water from this water tank was supplied to the village through pipes. One major ‘n’ tube was installed near the village which was then connected with the sub-‘n’ tube of the three blocks. The ‘n’ tubes in the blocks were located on the corner of the street according to the height of the location of the blocks. Direction in which the water has to be supplied is controlled by the distribution control knob installed in major and sub ‘n’ -tubes to control the water supply. Thus, these ‘n’ tubes are installed on topographical basis.

In every street, first the level of the highest house was measured and then height of the water supply tube was increased more than that level so that water could be easily supplied to each house. This way around 25 ‘n’ tubes in total have been laid down in the village and now water is easily supplied to each and every house in the village.

Comments on technology by the villagers:-

User Group	Question	Results/ Comments
<p>1. Mr. Punjabhai Bichawada (50 years)</p> 	<p>As mention above</p>	<p>There is no problem in village. <i>'Atyare to pani ni suvida che pad jyare committee nathi tyare piwana to dur kapda dovano aur snan karva vaste pani ni problem na sahan kare rahya hata'</i>. (Before the existence of water committee we were having problems of water even not for drinking but also for bathing and cleaning of clothes)</p>
<p>2. Mr. Haren Kumahar (40 years), 'n' tube number 13.</p>		<p>Varli Water committee is very good for us. It has solved water problem in our village.</p>
<p>3. Mr. Memabhai Ramjibhai Ahir (45 Years) Chairman '<i>Pani Samiti</i>'</p>		<p>The best part is that even the places which are situated on higher height are also getting sufficient water. Thus , it has lead to equality besides providing people confidence in their own cooperation thus leading to other schemes related to sanitation, etc.</p>
<p>4. Mrs. Jasuben Surubhai Rebari (55 Years), 'n' tube no. 17.</p> 		<p>We are getting sufficient and pure water now.</p>
<p>5. Mr. Prabhat bhai (48 Years), 'n' tube no. 3</p>		<p>Varli water committee has solved the problem of water. Everyone is getting pure and sufficient water.</p>

<p>6. Mr. Hematgar Goswami (40 Years), 'n' tube no. 23</p>		<p>We were having lots of water problems but now everything is OK. We are getting good water due to water committee.</p>
<p>7. Mrs. Kuwerben bhura (60 Years), 'n' tube no. 18</p> 		<p>(Initially she told us that she is not fully satisfied with the system, due to the low pressure. When we pointed that matter with the 'Pani Samiti' then they found the reason for that which was that she had increased the height of the tape due to which the pressure of water decreased. Overall she now looks very satisfied). We are thankful to water committee which has solved our water problem. Now we are getting enough amount of water regularly. 'Comitte re karan Hamari problem khatam thai gai che'. (Due to Committee our problem finished).</p>
<p>8. Mr. Govind Krishnan (50 Years)</p>		<p>Water problem existed in our village before evolution of water committee which has solved water problem in our village.</p>
<p>9. Mr. Vinod P Sawak (38 Years), 'n' tube no. 4.</p> 		<p>(i) Village is getting water from Water committee due to which water problem of village has finished. And also o more incidents of community violence. (ii) Water committee also provides water to public places like temples, mosques, community hall etc. (iii) Water committee also supplies water for tree plantation done by village people.</p>
<p>10. Mr. Welgibhai (37</p>		<p>Water Committee has solved our entire water problem.</p>

Years), ‘ १ ’ tube no. 9. 		
11. Mr. Babubhai Makwana (50 years), ‘ १ ’ tube no. 25. 		Satisfied
12. Mr. Eliash Siddique (33 years), ‘ १ ’ tube no. 9.		Satisfied.
13. Mr. Majaramabhai Chawala (88 years).		Satisfied.
14. Mr. Jaintibhai Ahir  (35 Years), ‘ १ ’ tube no. 16.		Due to this technique whole village is getting water in good way. Also getting water in pure and timely manner saves time of village people. This technique is quite simple too. <i>‘Pehle to bhai behno pani pivasu bimar padta hatha pad comitee re karan bimari kam thai gai che’.</i> (Due to committee there are lesser incidences of diseases in village).
15. Mr. Dewat Jaisat Makawana (65 Years)		Satisfied.
16. Mr. Bechubhai Bichalbhai Chawada		Satisfied.

(60 years)		
17. Mr. Meghar Bhimabhai Makwana (52 Years)		Satisfied.
18. Mr. Hussain Ahmed (60 years)		Satisfied.
19. Mr. Pachan Hira Rebari (38Years)		We are getting lots of benefit out of this technology <ul style="list-style-type: none"> (i) Saving of time (ii) Cleanliness (iii) Getting water regular and on equal basis.
20. Mrs. Pureben Hira Rabari (62 Years), 'Ń' tube no. 24.		Satisfied.
21. Mrs. Jiveben Khimabhai bagheri (35 Years)		People now realize the value of water; they are not wasting it – a commendable achievement.

Step 2 – Evaluation

Date of visit: August 26th to September 1st, 2008.

Name of the expert(s) making the visit: Dr Suboodh Kumar Bishnoi

1. Preliminary performance indicators for accessing whether the intended direct benefits have been fulfilled:

Intended Benefit	Indicator	Method of Verification
Saves electricity (It takes just 9 hours to supply water to the whole village compared to the earlier 18 hours thus, saving 9 hours of electricity).	Lesser time spent in supplying water (Although there is no electricity meter because government provides electricity free of charge but lesser time spent means lesser electricity burnt while the motor runs)	
Equal distribution of water to each household.	Water pressure Discharge (l/h) Time of water supply	Filling time for 10 lit buckets at each household.
Technical functioning	Performance in last 4 years	Experts visit
Acceptance by local community	How much water he is getting ever and got never	

Unintended Benefit	Indicator	Method of verification
Family health improvement	Less water borne diseases due to better quality of water	
Lesser disputes among villagers leading to a more		

cordial environment.		
Ecologically beneficial as ground water level has come up	Around 15 years back, the water table was at 60 feet depth. With every two to three years the boring was dug another 15-20 feet to get enough water to supply to the villagers. As a result, the water table had gone down as low as 350 feet depth and that too with little benefit. But after the implementation of 'n' tube system, there has been no need to further dig the boring as the water table has risen to 200 ft. depth.	

2. Results of Assessment:

Intended Benefit	Indicator	Fulfilled Yes/no	Comments (with reference to the used indicators)
Equal distribution of water to each household		Yes	Approximately it takes around a minute to fill 10 ltrs. bucket
Technical functioning	Yes		System is working extremely well irrespective of minor cases of pipe leakages, etc.
Acceptance by the local community	Yes		Users are mainly satisfied with the system and consider it a success.
Water conservation		Yes	Initially water was

			supplied about 18 h/day as compare with new system in which supply only 9 h/ day
Energy saving		Yes	Electricity bill were not available because it is government policy to free electricity supply, but compare to 18 h/day water supply there are only 9 h/day.
Less mosquito breeding		Yes	


Layout of ‘n’ System (Known as Reverse U system)




Summary of User Perceptions

Both Individual Interviews and group Discussions


Questions (Q):

S. No.	User Name	Questions	Results/ Comments
1.	Mr. Punjabhai Bichawada (50 years) 	Q1: Are You Happy with the technology? If Yes why, if no why not?	Before the existence of water committee we were having problems of water even not for drinking but also for bathing and cleaning of clothes. It has proved as a boon for us.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	We now wish to go for complete sanitation and improved hygenicity in the village.
		Q5: Do you have equal access and pay a fair price?	Definitely yes.
		Q6: Are you aware of any	No idea


		misuse of the service?	
2.	Mr. Haren Kumahar (40 years), 'n' tube number 13.	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it is a good thing for this village as it has solved the water problem of the whole village.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Varli Water committee is very good for us. It has solved water problem in our village.
		Q5: Do you have equal access and pay a fair price?	Everybody has equal access and is supposed to pay Rs.5/month which is quite fair.
		Q6: Are you aware of any misuse of the service?	No
3.	Mr. Memabhai Ramjibhai Ahir (45 Years) Chairman ' <i>Pani Samiti</i> '	Q1: Are You Happy with the technology? IF Yes why, if no why not?	The best part is that even the places which are situated on higher height are also getting sufficient water. Thus , it has lead to equality besides providing people confidence in their own cooperation thus leading to other schemes


			related to sanitation, etc.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	We have started schemes related to use of sewerage water for irrigation after purifying it and so we want to build a check dam and install a purification plant
		Q5: Do you have equal access and pay a fair price?	All consider it a beneficial proposition.
		Q6: Are you aware of any misuse of the service?	In the capacity of Chairman, I would say that in any such case we would first issue a warning and if no heed is paid to that then it will be followed by the cutting of connection. We charge more amounts from people desiring a reconnection after getting a written agreement signed by the offender.
4.	<p>Mrs. Jasuben</p> 	Q1: Are You Happy with the technology? IF Yes why, if no why not?	I am not just happy for myself but for the whole village. It is a wonderful system. I would say


	Surubhai Rebari (55 Years), 'n' tube no. 17.		especially for women, when I remember the times of few years back when I used to bring water by carrying pots on my head from quite a distance.
		Q2: Are you using the technology (regularly)?	Yes, I am.
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	Not at all.
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	How I wish it could have been introduced to us womenfolk a little earlier.
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No.
5.	Mr. Prabhat bhai (48 Years), 'n' tube no. 3	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Varli water committee has solved the problem of water. Everyone is getting pure and sufficient water.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you	Its success is leading to

		may not like with the technology or which could be improved (if yes, what and how)?	other cooperative schemes and it should continue to be like this only.
		Q5: Do you have equal access and pay a fair price?	Yes, I think everybody thinks it is a fair price.
		Q6: Are you aware of any misuse of the service?	No
6.	Mr. Hematgar Goswami (40 Years), 'N' tube no. 23	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it should be adopted by as many villages as possible.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	It is an exemplary system
		Q5: Do you have equal access and pay a fair price?	Yes, everybody has equal access which is the main benefit of this scheme.
		Q6: Are you aware of any misuse of the service?	No
7.	Mrs. Kuwerben 	Q1: Are You Happy with the technology? IF Yes why, if no why not?	We are thankful to water committee which has solved our water problem. Now we are getting enough amount of water


	bhura (60 Years), 'n' tube no. 18		regularly. <i>'Committee re karan Hamari problem khatam thai gai che'</i> . (Due to Committee our problem finished).
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Initially she told us that she is not fully satisfied with the system, due to the low pressure. When we pointed that matter with the <i>'Pani Samiti'</i> then they found the reason for that which was that she had increased the height of the tape due to which the pressure of water decreased. Overall she now looks very satisfied
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No misuse.
8.	Mr. Govind Krishnan (50 Years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it is an extremely beneficial technology for the village. It has provided

			us a permanent solution to our water problem without creating ecological imbalances too.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	It should be adopted by the other villages too.
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	Few instances of misuse have been observed and in that case a warning is issued to the first timer. In case of repetition a fine is imposed and finally the connection is cut if still no heed is paid.
9.	<p>Mr. Vinod P Sawak (38 Years),</p> 	Q1: Are You Happy with the technology? IF Yes why, if no why not?	(i) Village is getting water from Water committee due to which water problem of village has finished. And also o more incidents of

	'n' tube no. 4.		community violence. (ii) Water committee also provides water to public places like temples, mosques, community hall etc. (iii) Water committee also supplies water for tree plantation done by village people.	
		Q2: Are you using the technology (regularly)?	Yes	
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No	
			Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Should lead to many more such other schemes benefiting the rural village in the true sense.
			Q5: Do you have equal access and pay a fair price?	Yes, it is a fair enough price.
			Q6: Are you aware of any misuse of the service?	No
10.	Mr. Welgibhai (37 Years), 'n' tube 	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, everybody gets not just sufficient and timely water supply but water is also pure.	
		Q2: Are you using the technology (regularly)?	Yes.	
		Q3: Is there anything which	No	

	no. 9.	may prevent you from using the technology (regularly), if yes what?	
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	It is quite fine as it is.
		Q5: Do you have equal access and pay a fair price?	I think everybody thinks it is a fair price for such a good supply.
		Q6: Are you aware of any misuse of the service?	No, not aware of any misuse.
11.	Mr. Babubhai Makwana (50 years), 'N' tube no. 25. 	Q1: Are You Happy with the technology? If Yes why, if no why not?	Yes, quite happy with this people's initiative
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	No, it is fine.
		Q5: Do you have equal access and pay a fair price?	Yes, everybody has an equal access.
		Q6: Are you aware of any misuse of the service?	No idea

12.	Mr. Eliash Siddique (33 years), 'N' tube no. 9.	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it is a good thing for this village.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	I am sure it would lead to much bigger things.
		Q5: Do you have equal access and pay a fair price?	Everybody has equal access and is supposed to pay Rs.5/month which is quite fair.
		Q6: Are you aware of any misuse of the service?	I am not aware of any such thing but if there is then there are provisions for that too.
13.	Mr. Majaramabhai Chawala (88 years).	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, I am.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	Nothing.
		Q4: Is there anything which you may not like with the	It looks like a perfect

		technology or which could be improved (if yes, what and how)?	solution.
		Q5: Do you have equal access and pay a fair price?	All the people have access to it.
		Q6: Are you aware of any misuse of the service?	Not aware.
14.	<p>Mr. Jaintibhai Ahir (35 Years), ‘n’ tube no. 16.</p> 	<p>Q1: Are You Happy with the technology? IF Yes why, if no why not?</p>	<p>Due to this technique whole village is getting water in good way. Also getting water in pure and timely manner saves time of village people. This technique is quite simple too. <i>‘Pehle to bhai behno pani pivasu bimar padta hatha pad comitee re karan bimari kam thai gai che’</i>. (Due to committee there are lesser incidences of diseases in village).</p>
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Now we all should pay attention to health aspect of villagers too.

		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No
15.	Mr. Dewat Jaisat Makawana (65 Years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, I am a big advocate of this technology.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Nothing
		Q5: Do you have equal access and pay a fair price?	Yes, I think everybody thinks it is a fair price.
		Q6: Are you aware of any misuse of the service?	No
16.	Mr. Bechubhai Bichalbai Chawada (60 years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it has made our village a better place to live in.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the	It is okay

		technology or which could be improved (if yes, what and how)?	
		Q5: Do you have equal access and pay a fair price?	Yes to both
		Q6: Are you aware of any misuse of the service?	No
17.	Mr. Meghar Bhimabhai Makwana (52 Years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it is an extremely beneficial technology.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	We are now going on for purification of sewerage water and I would like for this trend to continue.
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No misuse. In case of misuse there are certain punishments to keep away people from misusing.
18.	Mr. Hussain Ahmed (60 years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, it is quite a good technology.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which	No

		may prevent you from using the technology (regularly), if yes what?	
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	It paves the way for further people's cooperative schemes.
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No
19.	Mr. Pachan Hira Rebari (38Years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	We are getting lots of benefit out of this technology (i) Saving of time (ii) Cleanliness (iii) Getting water regular and on equal basis.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No.
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Now the problem of water for irrigation too should be solved in the same manner.
		Q5: Do you have equal access and pay a fair price?	Yes, price may be lowered

			for some poor people. Although women and children and exempted from this but still I just guess that some people find it quite difficult.
		Q6: Are you aware of any misuse of the service?	No
20.	Mrs. Pureben Hira Rabari (62 Years), 'N' tube no. 24.	Q1: Are You Happy with the technology? IF Yes why, if no why not?	Yes, fully satisfied. Just what we needed.
		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	No
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No
21.	Mrs. Jiveben Khimabhai Bagheri (35 Years)	Q1: Are You Happy with the technology? IF Yes why, if no why not?	I have no words to describe my thanks. People now realize the value of water; they are not wasting it a commendable achievement.

		Q2: Are you using the technology (regularly)?	Yes
		Q3: Is there anything which may prevent you from using the technology (regularly), if yes what?	No
		Q4: Is there anything which you may not like with the technology or which could be improved (if yes, what and how)?	Villages should go in for full self-dependency following such schemes.
		Q5: Do you have equal access and pay a fair price?	Yes
		Q6: Are you aware of any misuse of the service?	No