

Functionality Assessment of Household Tap Connection under National Jal Jeevan Mission - 2022



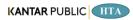
District Report: Ambedkar Nagar, Uttar Pradesh Survey Duration: February to April 2022

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Abbreviations

AWC	Aanganwadi Centre
FHTC	Functional Household Tap Connection
Gol	Government of India
GP	Gram Panchayat
HF	Health Facility
HH	Household
HGJ	Har Ghar Jal
JJM	Jal Jeevan Mission
LPCD	Litres per Capita per Day
MVS	Multi-village Scheme
NJJM	National Jal Jeevan Mission
RC	Residual Chlorine
O&M	Operation and Maintenance
OHT	Over Head Tank
PSU	Primary Sampling Unit
PWS	Piped Water Supply
SVS	Single Village Scheme
VAP	Village Action Plan
VWSC	Village Water and Sanitation Committee
WQMIS	Water Quality Monitoring and Information System



Glossary

- 1. Community Group of people living in one particular area or village/habitation
- Cross-sectional research A cross-sectional study is a type of research design in which data is collected from a relatively large and diverse group of people at a single point in time
- 3. **Drinking water source** Groundwater (open well, borewell, tube well, handpump, spring, etc.)/ surface water (river, lake, pond, reservoir, etc.)/rainwater, available for drinking and domestic use
- 4. Improved sources The following sources as considered improved by the National Family Health Survey definitions: Piped water into dwelling, yard/plot with a tap, piped water connected to public stand-posts, tube well or borewell, Hand pump, dug well– protected, Spring–protected, Rainwater, Water ATM/ Community RO plant/ Community Water Purification Plant (CWPP)
- 5. **Unimproved sources** The following sources as considered unimproved by the National Family Health Survey definitions: Unprotected spring, unprotected dug well, cart with small tank / drum, Tanker/ truck, Surface water (river/ dam/ lake/ pond/ canal), and bottled water
- 6. **Functional Household Tap Connection (FHTC)** A tap connection to a rural household for providing drinking water in adequate quantity of prescribed quality on regular basis.
- 7. **Functionality of FHTC** Functionality of a tap connection is defined as having infrastructure, i.e., household tap connection providing water in adequate quantity, as presented:

Definitions	Fully-functional	Partially-functional	Non-functional
Quantity	>= 55 LPCD	> 40 lpcd - < 55 LPCD	< 40 LPCD
Regularity	12 months or daily basis	9-12 months or < daily basis	< 9 months or < daily basis
Quality	Potable	Potable	Non potable

- 8. **Quantity (in litres)** of water received by households per person per day should meet the service level of 55 LPCD
- 9. **Functionality Assessment** An assessment of the functionality of rural household tap connections based on a sample survey
- 10. **Fully Regular –** Regularity of water is considered when a rural household receives water for 12 months on daily basis or as per schedule.
- 11. **Potability –** Potable water is water that is safe to be used as drinking water. Parameters of potable water are mentioned below:

	meters for potable water ed in the survey	Unit	Acceptable Limit	Permissible Limit in the absence of alternative sources
i.	pH (tested on site)	-	6.5 to 8.5	No relaxation
ii.	Free residual chlorine (tested on site)	Mg/litre	0.2	1
iii.	Turbidity	NTU	1	5
iv.	Total hardness	Mg/litre	200	600
٧.	Total alkalinity	Mg/litre	200	600
vi.	Chloride	Mg/litre	250	1000
vii.	Ammonia	Mg/litre	0.5	No relaxation
viii.	Phosphate	Mg/litre	0.3	1
ix.	Iron (in hotspots only)	Mg/litre	1	No relaxation
х.	Nitrate	Mg/litre	45	No relaxation
xi.	Sulphate	Mg/litre	200	400
xii.	Total dissolved solids	Mg/litre	500	2000
xiii.	Fluoride	Mg/litre	1	1.5



xiv.	Arsenic (in hotspots only)	Mg/litre	0.01	No relaxation
XV.	Bacteriological test for Total bacteria and E. coli or therm coliform bacteria		Shall not be detectable in any	100 ml sample

- 12. **Sampling** Selection of a subset of individuals from within a statistical population to estimate water service delivery among the population. In the current study, households have been sampled to estimate the representation of the village and subsequently of the district as well as of the state.
- 13. Types of schemes: Following are the piped water supply schemes that were assessed
 - a. Mini-solar based piped water supply scheme in isolated/tribal hamlets
 - b. Single Village Scheme (SVS) in villages having adequate groundwater that needs treatment
 - c. Single village scheme (having adequate groundwater/ spring water/ local or surface water source of prescribed Quality)
 - Retrofitting of ongoing schemes taken up under erstwhile NRDWP for the last mile connectivity/ retrofitting of completed rural water supply schemes to make it JJM compliant
 - e. Multi-village PWS scheme with water grids/ regional water supply schemes
- 14. Village Action Plan (VAP) Plan prepared by Gram Panchayat and/ or its sub-committee, i.e., VWSC/ Paani Samiti/ User Group, etc. based on baseline survey, resource mapping and felt needs of the village community to provide FHTC to every rural household, treat the generated greywater and plan its reuse, undertake surveillance activities, etc. VAP also indicates the fund requirement and timelines for completion of work under the Mission and will be approved by the Gram Sabha. Irrespective of the source of funding, all drinking water-related works in the village are taken up based on the VAP.
- 15. **Source Sustainability** includes measures such as aquifer recharge, rainwater harvesting, increased storage capacity of water bodies, reservoirs, de-silting, etc. improve the lifespan of water supply systems
- 16. Har Ghar Jal (HGJ) An administrative unit wherein all HHs are provided with water supply through FHTCs is called "Har Ghar Jal".
- 17. **Public Institutions** The public institutions in the survey include Aanganwadi Centre (AWC), Health Facilities, Schools, Gram Panchayat, and government buildings.
- 18. Working tap connection A tap connection supplied water at least one day in the week, preceding of survey
- 19. **Functional Scheme –** A scheme is said to be functional if it was reported to be working for all 12 months in a year.



1. Factsheet

Table 1: District level factsheet

Indicators	Uttar Pradesh	Ambedkar Nagar
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last 7 days (%)	59	61
Fully functional (%)	57	84
Partially functional (%)	35	16
Non-functional (%)	8	0
Quantity of water received by households		
Adequate quantity (>55 LPCD) (%)	88	100
Partially adequate quantity (> 40 LPCD - < 55 LPCD) (%)	5	0
Inadequate quantity (<40 LPCD) (%)	7	0
Regularity of water received by households		
Fully Regular Supply (as per schedule) (%)	67	86
Partially Regular Supply (not as per schedule) (%)	25	14
Irregular Supply (less than 9 months' supply) (%)	8	0
Potable (Quality) water received by households		
Potable (%)	92	98
Non-potable (%)	8	2
Residual Chlorine (RCL) detected with in permissible limits (%)	4	21

Household level indicators		
Households receiving water supply daily-7 days a week (%)	88	92
Daily HH requirement of water being met by FHTC (%)	51	92
Households reported FHTC as a primary source of drinking water (%)	24	10
Households purifying water before drinking (%)	6	0
Households paying water service delivery charges (%)	19	50
Households having coping mechanisms during scarcity (%)	35	0
Households aware of grievance redressal mechanism for reporting problems with FHTC (%)	34	0
Households reported incidence of water-borne diseases in the last year (%)	1	0
Households reported a reduction in time and effort in collecting water (%)	56	100
Overall user satisfaction at the household level		
Regularity (%)	58	84
Overall quality (%)	59	90



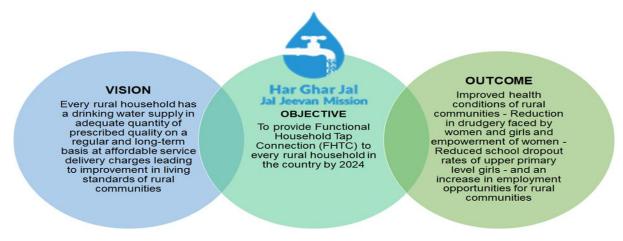
Indicators	Uttar Pradesh	Ambedkar Nagar
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	32	56
Villages with groundwater resource (%)	14	0
Villages having groundwater recharge structure ¹ (%)	6	0
Water supply and storage status in villages		
Average no. of times water is supplied in a day	1	3
Villages having OHT/ Sump for storage of water (%)	64	7
Water quality monitoring and surveillance in the villages		
Villages with Field Test Kits (%)	5	43
Villages in which bacteriological test was done in last 1 year by VWSC/ Pani Samiti (%)	4	0
Villages reported to have a mechanism for chlorination (%)	13	0
VWSC/Pani Samiti and PWS signage in villages		
Village reported having presence of VWSC/ Pani Samiti (%)	10	0
Villages in which VWSC/ Pani Samiti is responsible for Operation & Maintenance of PWS schemes (%)	0	0
Villages in which persons are trained to use Field Test Kits (%)	4	0
Villages in which signages about JJM were observed (%)	7	0
Operation and maintenance at village		
Villages levying water service delivery to households (%)	19	57
Convergence of JJM activities with other schemes in the villages (%)	1	0
Villages having skilled manpower for Operation & Maintenance of PWS schemes (%)	12	36
Community monitoring of water wastage in villages (%)	2	21

 $^{^{1}}$ Out of villages who reported to have groundwater source (N_v=0)

2. Context

Jal Jeevan Mission (JJM) was launched on the 15th of August 2019 with the objective to provide functional household tap connections (FHTCs) to all rural households.

Figure 1: Har Ghar Jal - Objective, Vision, & Outcome



In accordance with the overall objectives as specified in the Operational Guidelines for the implementation of the NJJM, Gol carried out a sample survey to assess the functionality of household tap connections. As part of this endeavour, NJJM, Gol engaged HTA Kantar Public to conduct the 'Functionality Assessment' of the household as well as public institution/ buildings such as schools, anganwadis, gram panchayat buildings, public health facilities, and wellness centers in all the rural districts for the fiscal year 2021-22.

2.1. District snapshot: Ambedkar Nagar

District Ambedkar Nagar of Uttar Pradesh has a population of 23,12,249. The district has 6 blocks. Out of 1,644 villages in the district, 348 are SC dominated and None are ST dominated villages. The district lies in Middle Gangetic Plains region and receives an annual rainfall of 873.5mm.

Presented here are district level information collated from the DDWS-IMIS:

Figure 2: District IMIS Status & Map

IMIS status:

- 27 (2% of all) villages are Har Ghar Jal
- 1617 (98% of all) villages are Non-Har ghar Jal
- SC/ST dominated district
- Non JE/AES
- Yes- History of water contamination
- 40 (2% of all) villages with PWS greater than 20 FHTC





2.2. FHTC Assessment Objectives

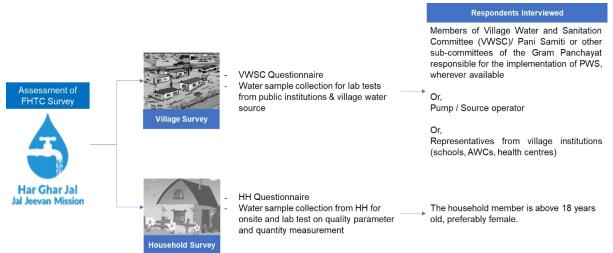
Figure 3: Objectives of Functionality of Tap Connections



2.3. Assessment Methodology

A cross-section research design has been used for this functionality assessment study. Quantitative data were collected from villages and households across all states/UTs using the CAPI (Computer Assisted Personal Interviewing) mode. The survey includes two components, village, and household.

Figure 4: Survey Components & Respondents



2.4. Sample Size

The sample size was calculated to provide estimates with a 95% confidence interval (CI) and 5% margin of error (MoE) after incorporating the correction factor for a finite population considering the total number of geographic units having FHTCs.

- Village sample is estimated to be representative at the state level
- HH sample estimated to be representative at the district level



- Number of Har Ghar Jal (HGJ) villages were proportionately sampled at the district level
- All PWS schemes (up to 4) were covered per village. Per scheme approximately 9 (3 each from the head, middle, and tail HHs) or 18 households (6 each from head, middle, and tail HHs) were sampled to achieve the desired sample at the district level.

2.5. Sampling Methodology

As per the design, all villages having a PWS scheme with 20 or more functional household tap connections were included in the sample frame. The probability proportionate to size (PPS) method was used for village selection in each district. The steps for random selection of villages using PPS are as presented:

Figure 5: Steps for Village Sampling



The key considerations for the village and household sampling were:

Figure 6: Sampling Considerations – Village & Households



The record of all district-wise village replacements is maintained and reported as part of the annexure.

2.6. Methodology for Water Quantity Measurement at Households

Figure 7: Steps for Measuring Flowrate from Supply-tap at HHs



The flow rate of the water supply was measured using a container with gradual markings (either 5 litres or 1 litre, based on the flow of the tap) and a stopwatch/timer-watch. The process followed is as described in Figure 7.

In the case of households where the FHTC is connected directly with the storage tank, the following steps were adopted to measure the quantity:

- Assessor first asked and recorded length, breadth, and height.
- Assessor dipped a 5 feet long rod, marked the level of the water table, and calculated the volume – length x breadth x-height of water.
- Next the assessor opened the valve of the connection and allowed the water to flow inside the storage for 10 minutes.
- After 10 mins, the valve was closed, and the assessor again dipped the rod and recorded the new height of the water inside the tank. Based on this new 'height' and the CAPI calculated the changed volume.
- The difference in the volume of water in 10 minutes divided by 10 provided the flow rate of the water supply per minute.

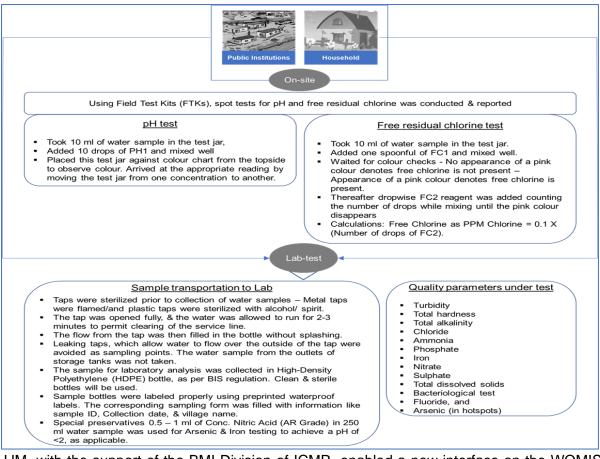
The water flow rate was not measured for village-level public institutions.

2.7. Methodology for Water Quality Measurement

Water quality was tested for all public institutions available in the villages, including schools, anganwadis, gram panchayat buildings, public health facilities, and wellness centers, and at the selected households. Two types of quality tests were carried out – a) spot test for pH and free residual chlorine, and b) water sample was collected and transported to labs for testing against 13 quality parameters (total 15) as specified in Figure 8.



Figure 8: On-site & Laboratory Based Quality Test



JJM, with the support of the BMI Division of ICMR, enabled a new interface on the WQMIS portal for "Functionality Assessment (FA) User" to enable seamless harmonization of water sample registration, sample submission for testing, and sharing of results as per the applicable quality parameters.

2.8. Project implementation

An overview of the project implementation is as presented:

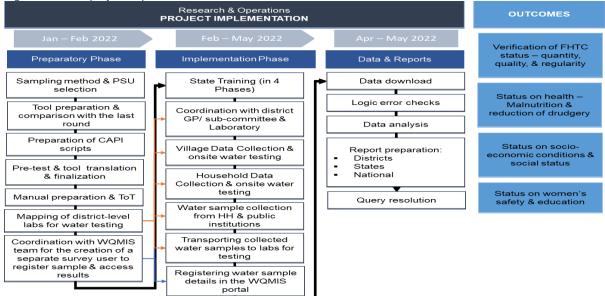


Figure 9: Broad project implementation framework

A total of 16 teams (comprising 16 supervisors, 112 assessors, and 16 water collection assistants) were recruited, trained, and deployed to complete the survey across the states of Uttar Pradesh. One survey team covered approximately 2 - 3 districts. The state-wise team deployment and fieldwork dates were as presented:

Table No. 1:	State-wise team deployment and data collection start & end dates								
State		Teams deployed	Start date	End date	Total data collection days				
Uttar Pradesh		16 Teams	13-02-2022	10-04-2022	55 Days				

A four-tier quality control (QC) system was put in place. At the ground level, the data collection exercise was done using a computer-aided Personal Interview (CAPI) application which contained all logic and skip-checks inbuilt. Also, 5% of the total samples were accompanied by the supervisors. Sub-targeted QC was done by the state field managers (5%) and the central project management team (5%). Apart from this, the central research team monitored the data trend and as per requirement debriefed data collection teams to improve quality.

2.9. Sample coverage

Table No. 2: Sa	mple covered					
	Targeteo	d sample	Achieved sample			
District	Village	НН	Village	НН	Public Institutions	
Ambedkar Nagar	14	414	14	431	18	
Uttar Pradesh	1,321	30,204	1,319	30,723	497	

2.10. Sampled village and household profile

SAMPLI	ED VILLAGES		SAMPLED HOUSEHOLDS
 Total no. of village 	s covered in the district – 14	•	Total no. of households covered in the district
Percentage of SC	dominated villages covered		- 263
in the district is 43	% (which is higher than the	•	Proportion of General - 10%, SC 28%, ST% 0,
state average, i.e.,	18%)		OBC 62% households
Percentage of ST	dominated villages covered	•	34% of the FHTC connections are under the
in the district is 0%	o (which is equal to the state		name of a female member
average, i.e., 0%)		•	Average household size – 6
Higher proportion	of pump operator	•	>75% positive user experience in 5/5
interviewed at the	village level		measures
Yes the district rep	oorted to have any historical		
incidence of water	contamination		



3. Findings

3.1. Functionality status of FHTC at household level A. Overall Functionality* (in %)

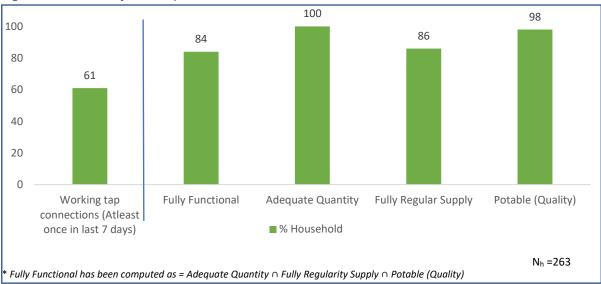


Figure 10: Functionality of HH tap connection

It has been found that 61 percent of the sampled HHs (N=263) had working tap connections (i.e., received water at least once in last 7 days). More than eight out of ten (84 percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).



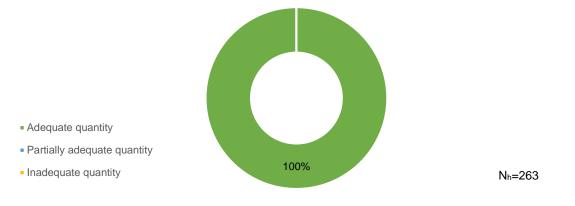
3.2. Quantity, Regularity, and Quality of Water

Under JJM, functionality is defined as having infrastructure, i.e., household tap connection providing water in adequate quantity (55 LPCD or more) of prescribed quality on regular basis (every day or as decided by GP and/ or its sub-committee) with adequate pressure. It will also include long-term source and system sustainability. Presented here are the findings in this respect.

A. Water quantity measured as LPCD (Litres per Capita per Day)

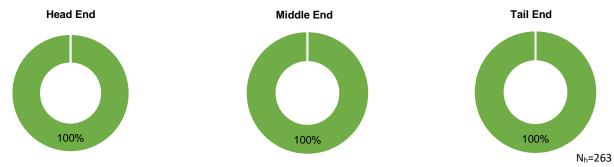
100% HHs reported receiving adequate quantity of water

Figure 11: Quantity of water received by households



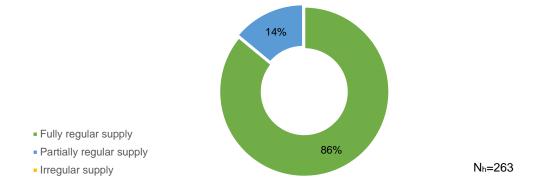
Quantity of water received across head, middle, and tail end HHs

Figure 12: Quantity of water received across head, middle and tail end households

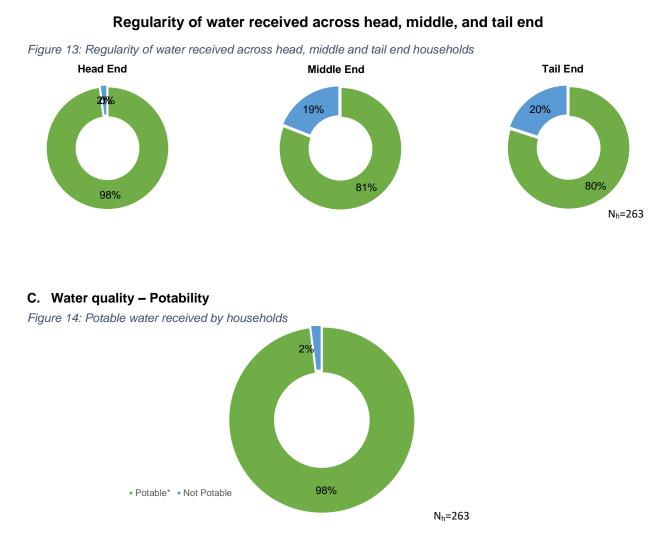


B. Regularity of water supply to households

86% HHs receive a regular supply of water (as per agreed schedule) *Figure: Regularity of water received by households*







*Potable water has been considered basis testing of water samples through laboratory tests for physical, chemical, and bacteriological as given in Table 4 parameters (within acceptable/permissible range) and onsite testing of pH. The details of laboratory test are mentioned in the table given above in the glossary.

Table No. 3:	Village	quality	parameters	reported	within	permissible	range	(in	%
sample w	ithin per	missible	e range)						

	Water Samples Tested from Public Institutes				
Quality Parameters (NV=32)	Anganwadi Centre	Health Facility	Schools	Others	
pH (on-site)	100	100	100	100	
Turbidity		Not te	ested		
Total Hardness		Not te	ested		
Total Alkalinity		Not tested			
Chloride	Not tested				
Ammonia	Not tested				
Iron	No history				
Nitrate	Not tested				
Sulphate		Not te	ested		
Total Dissolved Solids	Not tested				
Bacteriological Test	Not tested				
Fluoride	No history				
Arsenic	No history				



Quality Parameters	No of water samples	% Samples within permissible range			
Quality Farameters	tested				
pH (on-site)	263	100			
Turbidity	228	98			
Total Hardness	229	100			
Total Alkalinity	229	100			
Chloride	229	100			
Ammonia	Not tes	Not tested			
Iron	No his	tory			
Nitrate	229	100			
Sulphate	225	100			
Total Dissolved Solids	Not tes	sted			
Bacteriological Test (Absence)	Not tes	Not tested			
Fluoride	229	100			
Arsenic	No his	No history			

Table No. 4: Household water quality parameters reported within permissible range(in % sample within permissible range)

Safeguarding piped water supply for unforeseen bacteriological contamination-Presence of Residual Chlorine (RC)

The Residual Chlorine (RC) in the Ambedkar Nagar district was found in 21% samples. It has been found that 79Z% of samples, had no RC.

The Residual Chlorine in piped water supply is one of the most important preventive actions to assure quality of water against bacteriological contamination from source to consumption. The presence of residual chlorine within permissible limits is indicator of well-maintained and healthy piped water supply system.

It is advised that behavioural change communication campaigns on appropriate dosage of residual chlorine is held in all villages and monitoring system for chlorine dosing is established. The FTK must have residual chlorine testing facility for effective WQM&S.

Comment on functioning of District Lab:

The district lab tested water samples for 7 water quality parameters. 281 water samples were submitted, and 229 water samples were tested, and reports made available. The turnaround time for testing was more than 48 hours in most cases.

The labs did not have any issue with testing the number of water samples submitted nor had any issues with human resources, reagents, etc. However, the only concern was the lab did not accept any samples during weekends and public holidays.

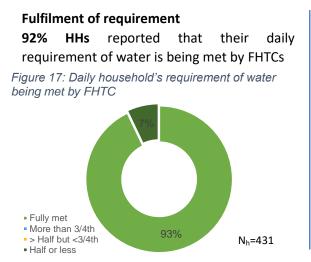


3.3. Average water supply days in a week

Figure 15: Average number of days households receive water supply in a week (in %)

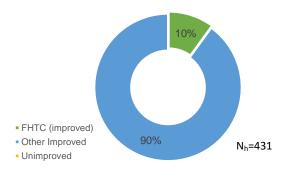


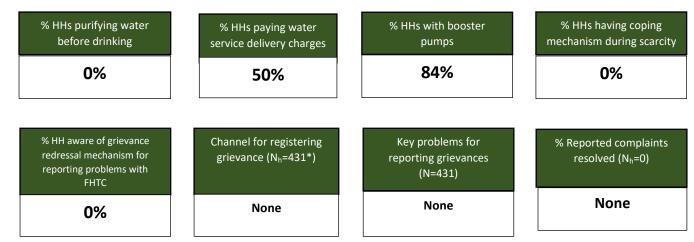
3.4. Household utilization of water for drinking and other activities



3.5. Status at HH level (Nh=431)

Primary source of drinking water10% HHs reported HH tap connection as their primary source of drinking water





*HHs who reported complaints in last 1 year



3.6. Source sustainability at the village level

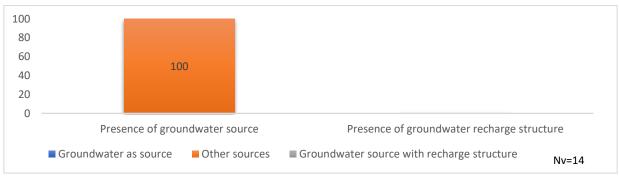
Schemes based on surface and ground water

No source sustainability measures taken by any village in the district.

Villages reported having presence of a groundwater source

None of villages reported the presence of groundwater sources like improved dug wells and borewells, and none of them were supported by recharging structures.

Figure 20: Villages reported the presence of groundwater sources and among those how many reported to have a recharge structure



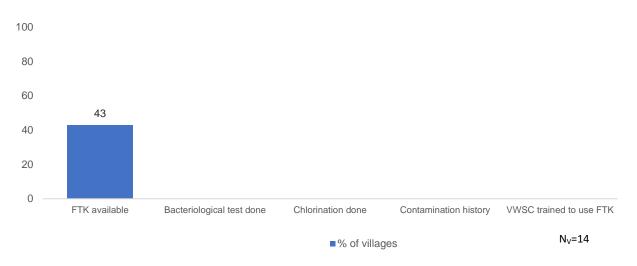
The top 3 other source sustainability measure taken by villages

No source sustainability measures taken by any village in the district



3.7. Water quality monitoring and surveillance in the villages

Figure 22: Water quality monitoring and surveillance by villages



3.8. Status of JJM

A. VWSC/Pani Samiti and PWS signage in villages (Nv=14)

Presence of VWSC/Pani Samiti	VWSC/Pani Samiti responsible for O&M of PWS Schemes	% Villages – VWSC/PO trained to use FTKs	% Villages in which signages about JJM was observed 0%	
0%	0%	0%		

B. Water supply, storage and operation & maintenance at village level (Nv=14)

Average no. of supply in a day	% Villages levying water service delivery to HH	% Villages with skilled manpower for O&M for PWS	Community monitoring of water wastage in villages	
3	57%	36%	None%	
% Villages having OHT/ Sump	% Villages having faced O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances	
7%	0%	PHED	Inadequate duration	

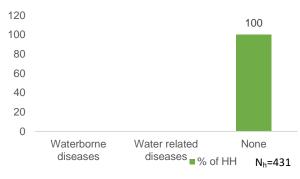


3.9. Perception of HHs on Outcome Indicators

a. Health

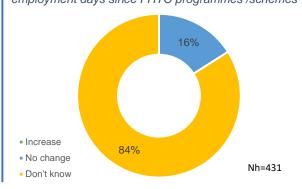
Incidence of water borne diseases at HH level in last one year as reported

Figure 23: Household reported incidence of water borne diseases in last one year



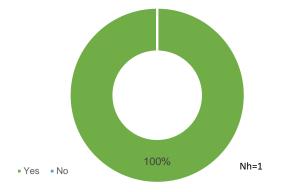
b. Economic Income Change in employment days since FHTC programmes/schemes

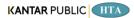
Figure 24: Household reported a change in employment days since FHTC programmes /schemes



c. Drudgery Reduction in time and effort in collecting water

Figure 25: Households reported reduction in time and effort in collecting water





3.10. User satisfaction

Table No	Table No. 5: User satisfaction - more than 75% happy with FHTC services					
S. No.	Parameter (N _h =431) In %					
1	Regularity	84				
2	Overall quality	90				
3	Colour		89			
4	Taste		89			
5	Odour	\odot	89			

Note:

Base $(N_v)=14$ means all villages sampled and covered in Ambedkar Nagar district

Base (N_H) =431 means all households sampled and covered across the 14 villages in Ambedkar Nagar district

Base (N_H)=431 means all households where female members used to fetch water before HH tap connection



4. Annexures

4.1. Summary of villages

Table No	. 6: Village sumr	nary				
S.No.	Name of sample village	Sample HHs	Actual sample HHs (achieved)	No. of scheme	No of source of surface water available in the village	No of source of ground water available in the village
#	Total	414	445	15		
1	Kutubpur	18	19	1		
2	Hanswar	72	75	2		
3	Chak Katokhar	18	21	1		
4	Bhat Purwa	18	20	1		
5	Babhanpur	18	20	1		
6	Pratappur Khurd	18	21	1		
7	Rupai Patti	18	20	1		
8	Parsanpur	18	20	1		
9	Nagpur	36	38	1		
10	Surhurpur	36	38	1		
11	Usraha	36	38	1		
12	Bhiyaon	36	38	1		
13	Hiri Pakriya	18	21	1		
14	Pratappur Chamurkha	54	56	1		

4.2. Functionality – 55 LPCD vs regularity vs potability vs working tap connection

Table	Table No. 7: Functionality of HH tap connection						
S. No.	Village	Fully Functional* (% HH)	Adequate Quantity (% HH)	Fully Regular Supply (% HH)	Potable (Quality) (% HH)	Working tap connections (%HH)	
#	Total	84	100	86	97	100	
1	Babhanpur	100	100	100	100	100	
2	Pratappur Khurd	95	100	100	95	100	
3	Rupai Patti	74	100	90	84	100	
4	Parsanpur	95	100	100	95	100	
5	Nagpur	76	100	76	97	100	
6	Surhurpur	81	100	87	95	100	
7	Bhiyaon	68	100	68	97	100	
8	Hiri Pakriya	95	100	95	100	100	
9	Pratappur Chamurkha	87	100	87	100	100	

* Fully Functional has been computed as = Adequate Quantity \cap Fully Regularity Supply \cap Potable (Quality)



4.3. Villages not meeting the quality parameters

		ange- 6.5 to 8.5)			
S.No.	Block Name	Panchayat Name	Villages	No. of HHs outside the acceptab	le range
NA	NA	NA	NA	NA	
2. Fre	ee residual chl	orine (Acceptable Ra	ange- 0.2 to 1	PPM)	
0 N			N CHI L	HHs outside the	HHs with
S.No.	Block Name	Panchayat Name	Villages	acceptable/permissible range	no
		T I 10 (5.		chlorine
	Jahangirganj	Thegi Pratappur	Pratappur	0	20
1			Khurd		10
2		6	Rupai Patti	0	19
3		Parsanpur	Parsanpur	0	18
4	Jalalpur	Nagpur	Nagpur	0	34
5	6	Surhurpur	Surhurpur	0	33
6	Ramnagar	Masena Mirzapur	Babhanpur	0	14
_	Katehari	Pratappur	Pratappur	0	51
7	D 1111	Chamurkha	Chamurkha		
8	Bhiti	Hiri Pakriya	Hiri Pakriya	0	19
		able Range- 1 to 5 N			
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permis	
	Jahangirganj	Thegi Pratappur	Pratappur		1
1			Khurd		
2			Rupai Patti		2
3	Jalalpur	Surhurpur	Surhurpur		2
		Acceptable Range- 2			
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permise	sible range
NA	NA	NA	NA	NA	
	tal alkalinity (A	cceptable Range- 2	00 to 600 Milli		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permise	sible range
NA	NA	NA	NA	NA	
6. Ch	loride (Accept	able Range- 250 to 1	000 Milligram	/litre)	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	
7. An	nmonia (Accep	table Range- 0.5 Mil	ligram/litre)		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	
8. Iro	n (Acceptable	Range- 1 Milligram/I	itre)		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
1	Bhiyaon	Bhiyaon	Bhiyaon		1
2	Jahangirganj	Thegi Pratappur	Rupai Patti		2
3		Parsanpur	Parsanpur		1
4	Jalalpur	Nagpur	Nagpur		1
		e Range- 1 Milligram			-
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	
		able Range- 200 to 4			
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	
		olids (Acceptable Ra			
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	ciore range
	cteriological te		19/3	1.1.1.1	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	siste ratige
		able Range- 1 to 1.5			
					sible renge
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permise	sible range
NA	NA Service (in hoton	NA ata) (Acceptable Ba	NA NA	NA	
14. Ar	senic (in notsp	ots) (Acceptable Ra	nge- 0.01 Milli	igram /litre)	
		D	N / 11 -		
S.No. NA	Block Name	Panchayat Name	Villages NA	HHs outside the acceptable/permise	sible range

