

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



District Report: Hojai, Assam

Survey Duration: February to April 2022

Contents

Abb	previations	3
Glo	ssary	4
1.	Factsheet	6
2.	Context	8
2.1.	. District snapshot: Hojai	8
2.2.	. FHTC Assessment Objectives	9
2.3.	. Assessment Methodology	9
2.4.	Sample Size	9
2.5.	. Sampling Methodology	10
2.6.	. Methodology for Water Quantity Measurement at Households	11
2.7.	. Methodology for Water Quality Measurement	11
2.8.	Project implementation	12
2.9.	. Sample coverage	13
2.10	0. Sampled village and household profile	13
3.	Findings	14
3.1.	. Functionality status of FHTC at household level	14
3.2.	. Quantity, Regularity, and Quality of Water	15
3.3.	. Average water supply days in a week	18
3.4.	. Household utilization of water for drinking and other activities	18
3.5.	. Status at HH level (Nh=377)	18
3.6.	. Source sustainability at the village level	19
3.7.	. Water quality monitoring and surveillance in the villages	20
3.8.	Status of JJM	20
3.9.	. Perception of HHs on Outcome Indicators	21
3.10	0. User satisfaction	22
4.	Annexures	23
4	.1. Summary of villages	23
4	2. Functionality – 55 LPCD vs regularity vs potability vs working tap connection	23
Т	able No. 1: Functionality of HH tap connection	23
4	3. Villages not meeting the quality parameters	24

Abbreviations

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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
- 2. **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:

Par	ameters for potable water tested 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

Parameters for potable water tested in the survey		Unit	Acceptable Limit	Permissible Limit in the absence of alternative sources
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	n 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	State	District
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last 7 days (%)	81	96
Fully functional (%)	58	49
Partially functional (%)	27	36
Non-functional (%)	15	15
Quantity of water received by households		
Adequate quantity (>55 LPCD) (%)	78	74
Partially adequate quantity (> 40 LPCD - < 55 LPCD) (%)	7	11
Inadequate quantity (<40 LPCD) (%)	15	15
Regularity of water received by households		
Fully Regular Supply (as per schedule) (%)	73	76
Partially Regular Supply (not as per schedule) (%)	20	18
Irregular Supply (less than 9 months' supply) (%)	7	6
Potable (Quality) water received by households		
Potable (%)	91	81
Non-potable (%)	9	19
Residual Chlorine (RCL) detected with in permissible limits (%)	5	21

Household level indicators		
Households receiving water supply daily-7 days a week (%)	75	79
Daily HH requirement of water being met by FHTC (%)	59	52
Households reported FHTC as a primary source of drinking water (%)	41	45
Households purifying water before drinking (%)	66	76
Households paying water service delivery charges (%)	10	14
Households having coping mechanisms during scarcity (%)	14	16
Households aware of grievance redressal mechanism for reporting	54	79
problems with FHTC (%)		
Households reported incidence of water-borne diseases in the last year (%)	4	1
Households reported a reduction in time and effort in collecting water (%)	44	63
Overall user satisfaction at the household level		
Regularity (%)	72	80
Overall quality (%)	76	81

Indicators	State	District
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	52	67
Villages with groundwater resource (%)	25	31
Villages having groundwater recharge structure ¹ (%)	6	6
Water supply and storage status in villages		
Average no. of times water is supplied in a day	1	1
Villages having OHT/ Sump for storage of water (%)	82	69
Water quality monitoring and surveillance in the villages		
Villages with Field Test Kits (%)	10	0
Villages in which bacteriological test was done in last 1 year by VWSC/	26	38
Pani Samiti (%)		
Villages reported to have a mechanism for chlorination (%)	19	12
VWSC/Pani Samiti and PWS signage in villages		
Village reported having presence of VWSC/ Pani Samiti (%)	58	62
Villages in which VWSC/ Pani Samiti is responsible for Operation & Maintenance of PWS schemes (%)	11	6
Villages in which persons are trained to use Field Test Kits (%)	15	6
Villages in which signages about JJM were observed (%)	50	94
Operation and maintenance at village		
Villages levying water service delivery to households (%)	8	6
Convergence of JJM activities with other schemes in the villages (%)	7	6
Villages having skilled manpower for Operation & Maintenance of PWS	14	38
schemes (%)		
Community monitoring of water wastage in villages (%)	10	19

KANTAR PUBLIC HTA

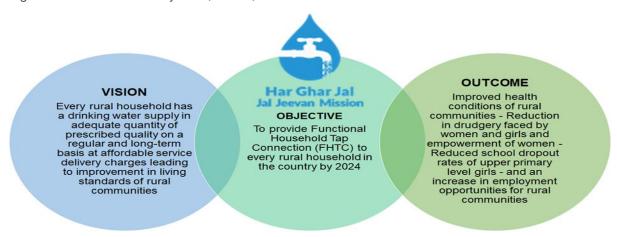
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 $^{^{\}rm 1}$ Out of villages who reported to have groundwater source (N $_{\! v}\!\!=\!\!5)$

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, GoI carried out a sample survey to assess the functionality of household tap connections. As part of this endeavour, NJJM, GoI 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: Hojai

District Hojai of Assam has a population of 9,23,763. The district has 5 blocks. Out of 403 villages in the district, 61 are SC dominated and 20 are ST dominated villages. The district lies in Eastern Himalayan Region and receives an annual rainfall of Varies between 1000mm to 2300mm.

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

Figure 2: District IMIS Status & Map

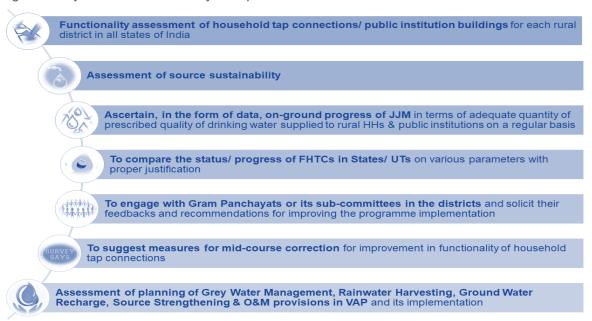
IMIS status:

- 18 (4% of all) villages are Har Ghar Jal
- 385 (96% of all) villages are Non-Har ghar Jal
- Non-SC/ST dominated district
- Non-JE/AES
- Yes- History of water contamination
- 185 (46% of all) villages with PWS more 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.

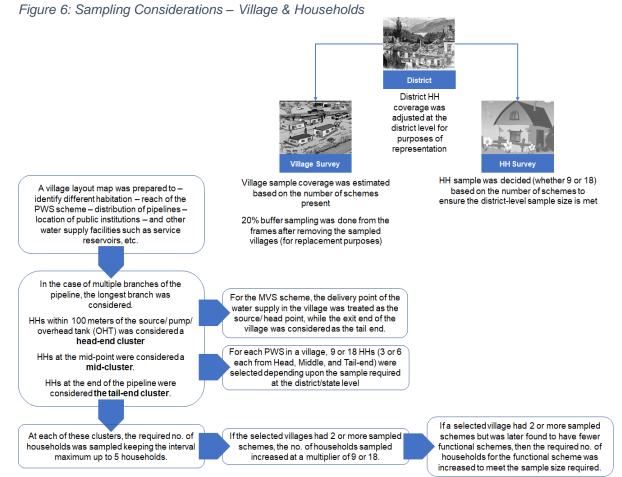
2.5. Sampling Methodology

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



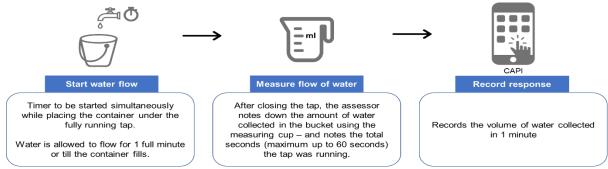
The key considerations for the village and household sampling were:



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:

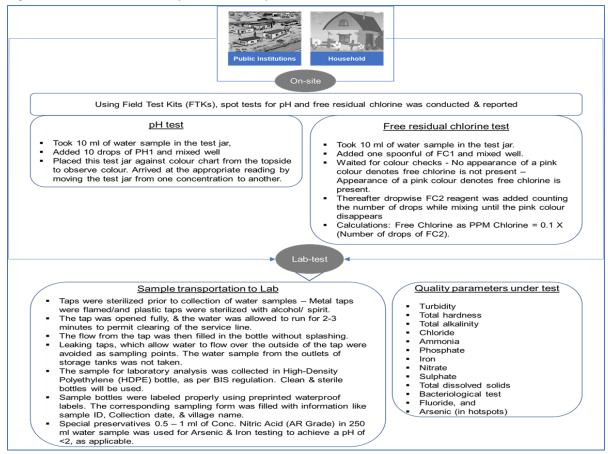
- Assessor first asked and recorded length, breadth, and height.
- Assessor dipped a 5 feet long rod, marked the level of the water table, and calculated the volume – length x breadth x-height of water.
- Next the assessor opened the valve of the connection and allowed the water to flow inside the storage 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.

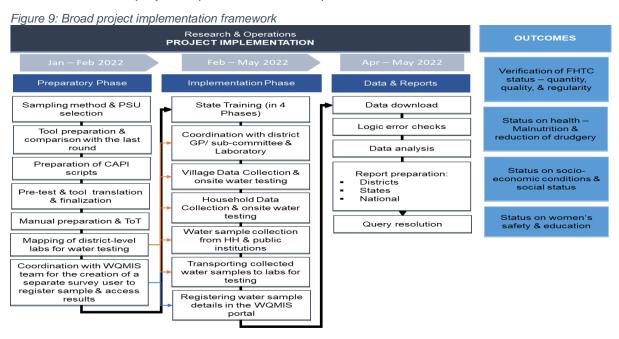
Figure 8: On-site & Laboratory Based Quality Test



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:



A total of 10 teams (comprising 10 supervisors, 60 assessors, and 10 water collection assistants) were recruited, trained, and deployed to complete the survey across the state of Assam. 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 Collection da					
Assam	10 Teams	2/21/2022	4/8/2022	45 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: Sample covered							
	Targeted sample Achieved sample						
District	Village	HH	Village	HH	Public Institutions		
Hojai	16	378	16	377	0		
Assam	440	12,735	440	12,786	102		

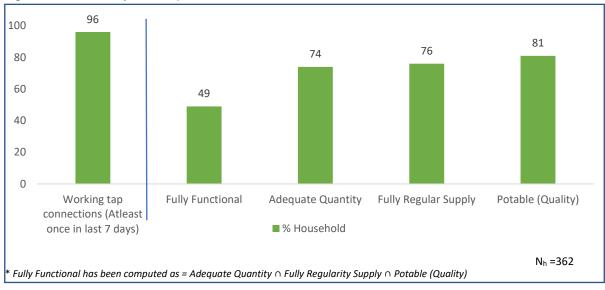
2.10. Sampled village and household profile					
SAMPLED VILLAGES	SAMPLED HOUSEHOLDS				
 Total no. of villages covered in the district – 16 Percentage of SC dominated villages covered in the district is 6% (which is slightly higher than the state average, i.e., 5%) Percentage of ST dominated villages covered in the district is None% (which is lower than the state average, i.e., 29%) Higher proportion of vwsc/pani samiti\pump operator interviewed at the village level Yes, the district reported to have any historical 	 Total no. of households covered in the district - 362 Proportion of General - 60%, SC 12%, ST% 9, OBC 19% households 26% of the FHTC connections are under the name of a female member Average household size - 5 >75% positive user experience in 5/5 measures 				
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 96 percent of the sampled HHs (N=362) had working tap connections (i.e., received water at least once in last 7 days). More than four out of ten (49 percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).

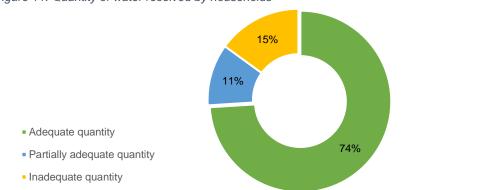
3.2. Quantity, Regularity, and Quality of Water

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)

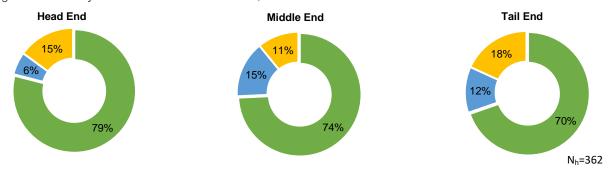
74% HHs reported receiving adequate quantity of water

Figure 11: Quantity of water received by households



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

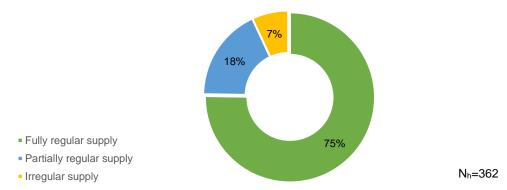
Figure 12: Quantity of water received across head, middle and tail end households



B. Regularity of water supply to households

76% HHs receive a regular supply of water (as per agreed schedule)

Figure: Regularity of water received by households



N_h=362

Regularity of water received across head, middle, and tail end

Figure 14: Regularity of water received across head, middle and tail end households

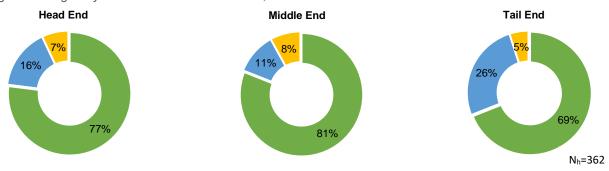
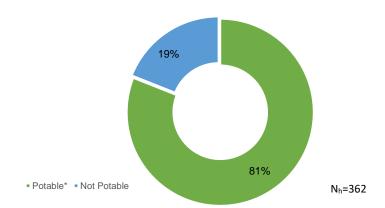


Figure 13: Potable water received by households

C. Water quality - Potability



^{*}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 (% sample within permissible range)

No public institutes were found in any of the villages within the district.

Table No. 4: Table 4: Household water quality parameters reported within permissible

range (in % sample within permissible range)

Quality Parameters	No of water samples tested	% Samples within permissible range	
pH (on-site)	362	87	
Turbidity	228	100	
Total Hardness	227	100	
Total Alkalinity	194	100	
Chloride	221	100	
Ammonia	Not tested		
Iron	227	91	
Nitrate	Not tested	1	
Sulphate	Not tested	1	
Total Dissolved Solids	195	100	
Bacteriological Test (Absence)	228	100	
Fluoride	141	100	
Arsenic	No history		

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

The Residual Chlorine (RC) in the Hojai district was found in 21% samples. Out of which 0% samples were having RC outside range whereas 79% samples, had no RC. It may be mentioned that 100% of water samples passed the bacteriological contamination test but to assure the protection against bacteriological contamination, addition of RC is must in PWS system.

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.

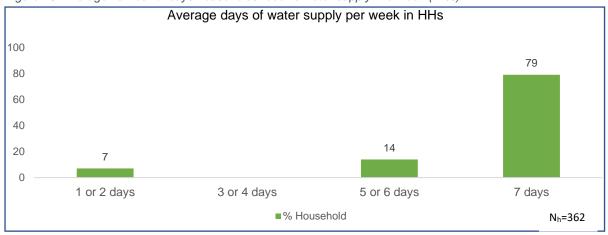
Comment on functioning of District Lab:

The district lab tested water samples for 8 water quality parameters. 362 water samples were submitted, and 228 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 resource, reagents etc.

3.3. Average water supply days in a week

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

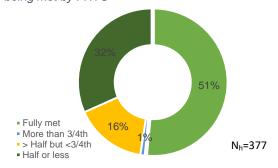


3.4. Household utilization of water for drinking and other activities

Fulfilment of requirement

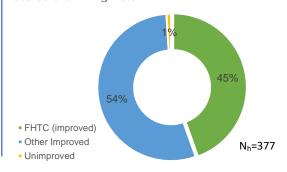
52% HHs reported that their daily requirement of water is being met by FHTCs

Figure 17: Daily household's requirement of water being met by FHTC

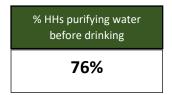


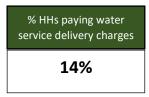
Primary source of drinking water 45% HHs reported HH tap connection as their primary source of drinking water

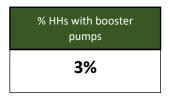
Figure 18: Households reported FHTC as primary source of drinking water

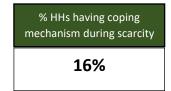


3.5. Status at HH level (Nh=377)









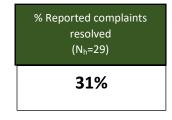




reporting grievances
(N=377)

Inadequate duration &
Irregular supply

Key problems for



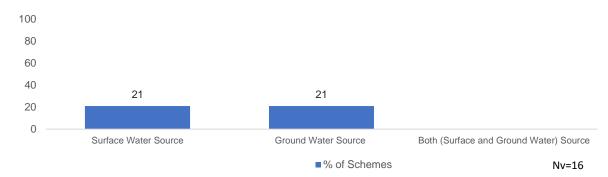
^{*}HHs who reported complaints in last 1 year

3.6. Source sustainability at the village level

Schemes based on surface and ground water

21% of schemes are reported to be based on surface water and 21% on ground water.

Figure 19: Schemes based on water source in village

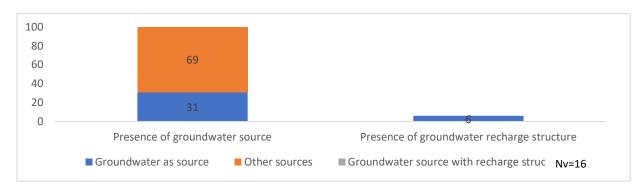


^{*&#}x27;Surface Water Source' is Stream, Spring, Glacier, River, lake, pond etc. and Groundwater Source is open well, borewell, tube well, handpump, spring, etc

Villages reported having presence of a groundwater source

31% of villages reported the presence of groundwater sources like improved dug wells and borewells, and 6 % 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



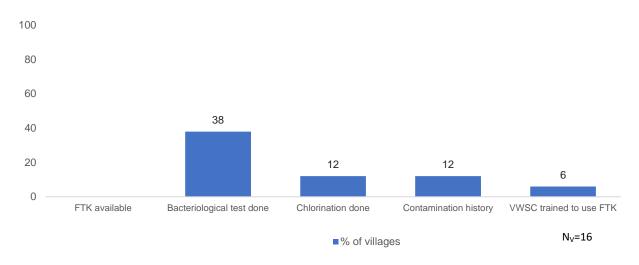
The top 3 other source sustainability measure taken by villages

Figure 21: Villages reported having taken other source sustainability measure



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 (N_v=16)

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	
62%	6%	6%	94%	

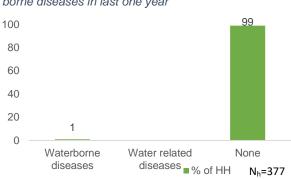
B. Water supply, storage and operation & maintenance at village level (N_v=16)

Average no. of supply in a day	% Villages levying water service delivery to HH	% Villages having skilled manpower for O&M for	Community monitoring of water wastage in	
1	6%	38%	19 %	
% Villages having OHT/ Sump	% Villages having faced O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances	
69%	38%	PHED	Inadequate duration	

3.9. Perception of HHs on Outcome Indicators

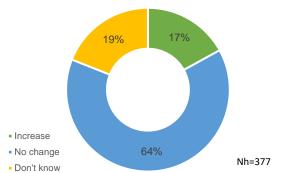
a. Health Incidence of water borne diseases at HH level in last one year as reported

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



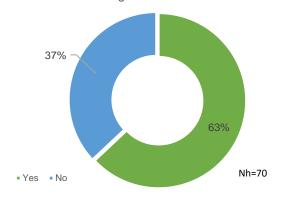
b. Economic Income Change in employment days since FHTC programmes/schemes

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 N	Table No. 5: User satisfaction - more than 75% happy with FHTC services					
S. No.	Parameter (N _h =377) In %					
1	Regularity © 80					
2	Overall quality	(°)	81			
3	Colour	<u>•</u> •	80			
4	Taste	00	80			
5	Odour	00	79			

Note:

Base (N_v)=16 means all villages sampled and covered in Hojai district

Base (N_H)=377 means all households sampled and covered across the 16 villages in Hojai district Base (N_H)=377 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 summary						
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
#	Hojai	378	393	16	7	13
1	Nahar Gaon	18	20	1		
2	Pub Jugijan	18	19	1	1	
3	Thikadar Basti	18	18	1		
4	Khring Khring	18	19	1		
5	Village No.6 Block No.1	36	37	1		2
6	Bordolong	18	19	1		1
7	Kapili Par (Kapli Par)	18	19	1		
8	Rampur	36	37	1		
9	Moudanga Pathar	36	37	1		2
10	Udmari	18	20	1		3
11	Sutar Gaon	36	37	1	1	
12	Niz-Doboka	18	19	1		
13	Borjari Maj Gaon	36	35	1		
14	Patia Pam	18	19	1		
15	Jujijan (Jugijan Gaon)	18	19	1		
16	Dakhin Lumding	18	19	1	5	5

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

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)	
#	Hojai	49	74	76	81	100	
1	Nahar Gaon	79	79	100	100	100	
2	Pub Jugijan	72	100	72	100	100	
3	Thikadar Basti	82	82	100	100	100	
4	Khring Khring	72	89	100	83	100	
5	Village No.6 Block No.1	67	67	100	100	100	
6	Bordolong	0	0	44	100	100	
7	Kapili Par (Kapli Par)	0	0	0	100	100	
8	Rampur	43	91	46	97	100	
9	Moudanga Pathar	97	97	100	100	100	
10	Udmari	5	100	100	5	100	
11	Sutar Gaon	0	27	0	67	100	
12	Niz-Doboka	6	78	67	6	100	
13	Borjari Maj Gaon	74	79	94	100	100	
14	Patia Pam	61	61	100	100	100	
15	Jujijan (Jugijan Gaon)	0	100	100	0	100	
16	Dakhin Lumding	67	94	67	100	100	

^{*} Fully Functional has been computed as = Adequate Quantity ∩ Fully Regularity Supply ∩ Potable (Quality)



4.3. Villages not meeting the quality parameters

		ty parameters dissat Range- 6.5 to 8.5)	istied at villaç	ge level	
S.No.	Block Name	Panchayat Name	Villages	No. of HHs outside the acceptab	ole range
1	Binnakandi	Charlok	Jujijan (Jugijan Gaon)		18
2		Doboka	Niz- Doboka		17
3		Sutar Gaon	Sutar Gaon		11
4	Dhal Pukhuri	Milik Basti	Rampur		1
2. Fr		lorine (Acceptable F	Range- 0.2 to	1 PPM)	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	HHs with no chlorine
1	Binnakandi	Baliram Gaon	Borjari Maj Gaon	0	28
2		Borhawar	Moudanga Pathar	0	27
3		Charlok	Jujijan (Jugijan Gaon)	0	18
4		Doboka	Niz- Doboka	0	17
5		Jamuna	Udmari	0	19
6		Nagaya Pam	Patia Pam	0	18
7		Sutar Gaon	Sutar Gaon	0	25
<u>8</u> 9	Dhal Pukhuri	Bordolong Farmarpar	Bordolong Kapili Par (Kapli Par)	0	7
10		Milik Basti	Rampur	0	27
11	Jugijan	Barophuti	Pub Jugijan	0	18
12		Borpukhuri	Thikadar Basti	1	0
13		Hindu Block	Nahar Gaon	0	18
14	Lumding	Dakhin Lumding	Dakhin Lumding	0	10
15	Udali	Ajarbari	Khring Khring	0	18
16		No. 1 Kaki	Village No.6 Block No.1	0	25
	rbidity (Acce	ptable Range- 1 to 5		ı	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permis	sible range
NA _	NA	NA	NA	NA	
4. To		(Acceptable Range-	200 to 600 Mi	lligram/litre)	
S.No.	Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA 5. To	NA Ital alkalinity (│ NA (Acceptable Range - :	NA 200 to 600 Mil	NA	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	
6. Ch		table Range- 250 to	1000 Milligra	m/litre)	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
NA	NA	NA	NA	NA	



Table	Table No. 8: Quality parameters dissatisfied at village level					
7. Ammonia (Acceptable Range- 0.5 Milligram/litre)						
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		
8. Irc	on (Acceptable	e Range- 1 Milligram	/litre)			
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
1	Binnakandi	Jamuna	Udmari	18		
2	Udali	Ajarbari	Khring Khring	3		
9. Nitr	rate (Acceptal	ole Range- 1 Milligra				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		
10. St	Ilphate (Acce	ptable Range- 200 to	400 Milligran	n/litre)		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		
11. To	tal dissolved	solids (Acceptable F	Range- 500 to	2000 Milligram/litre)		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		
12. Ba	acteriological	test (Presence)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		
13. Fl	uoride (Accep	table Range- 1 to 1.5	5 Milligram /li	tre)		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		
14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)						
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range		
NA	NA	NA	NA	NA		

