



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



District Report: Surajpur, Chhattisgarh
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
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:

Parameters 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
v. 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
x. 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 coliform bacteria and E. coli or thermotolerant 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)
 - d. 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	Chhattisgarh	Surajpur
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last 7 days (%)	55	6
Fully functional (%)	71	96
Partially functional (%)	22	4
Non-functional (%)	7	0
Quantity of water received by households		
Adequate quantity (>55 LPCD) (%)	89	96
Partially adequate quantity (> 40 LPCD - < 55 LPCD) (%)	5	4
Inadequate quantity (<40 LPCD) (%)	6	0
Regularity of water received by households		
Fully Regular Supply (as per schedule) (%)	85	100
Partially Regular Supply (not as per schedule) (%)	10	0
Irregular Supply (less than 9 months' supply) (%)	5	0
Potable (Quality) water received by households		
Potable (%)	89	100
Non-potable (%)	11	0
Residual Chlorine (RCL) detected with in permissible limits (%)	33	0
Household level indicators		
Households receiving water supply daily-7 days a week (%)	90	100
Daily HH requirement of water being met by FHTC (%)	74	20
Households reported FHTC as a primary source of drinking water (%)	24	3
Households purifying water before drinking (%)	65	99
Households paying water service delivery charges (%)	40	0
Households having coping mechanisms during scarcity (%)	67	77
Households aware of grievance redressal mechanism for reporting problems with FHTC (%)	66	35
Households reported incidence of water-borne diseases in the last year (%)	0	0
Households reported a reduction in time and effort in collecting water (%)	73	4
Overall user satisfaction at the household level		
Regularity (%)	74	29
Overall quality (%)	74	6

Indicators	Chhattisgarh	Surajpur
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	40	0
Villages with groundwater resource (%)	66	42
Villages having groundwater recharge structure ¹ (%)	36	8
Water supply and storage status in villages		
Average no. of times water is supplied in a day	1	0
Villages having OHT/ Sump for storage of water (%)	47	8
Water quality monitoring and surveillance in the villages		
Villages with Field Test Kits (%)	20	0
Villages in which bacteriological test was done in last 1 year by VWSC/ Pani Samiti (%)	8	0
Villages reported to have a mechanism for chlorination (%)	3	0
VWSC/Pani Samiti and PWS signage in villages		
Village reported having presence of VWSC/ Pani Samiti (%)	24	0
Villages in which VWSC/ Pani Samiti is responsible for Operation & Maintenance of PWS schemes (%)	4	0
Villages in which persons are trained to use Field Test Kits (%)	20	0
Villages in which signages about JJM were observed (%)	2	0
Operation and maintenance at village		
Villages levying water service delivery to households (%)	32	0
Convergence of JJM activities with other schemes in the villages (%)		
Villages having skilled manpower for Operation & Maintenance of PWS schemes (%)	17	0
Community monitoring of water wastage in villages (%)	9	0

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: Surajpur

District Surajpur of Chhattisgarh has a population of 82,84,80. The district has 5 blocks. Out of 544 villages in the district, 3 are SC dominated and 344 are ST dominated villages. The district lies in Eastern Plateau and Hill Region and receives an annual rainfall of 1,765.1mm.

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

Figure 1: District IMIS Status & Map

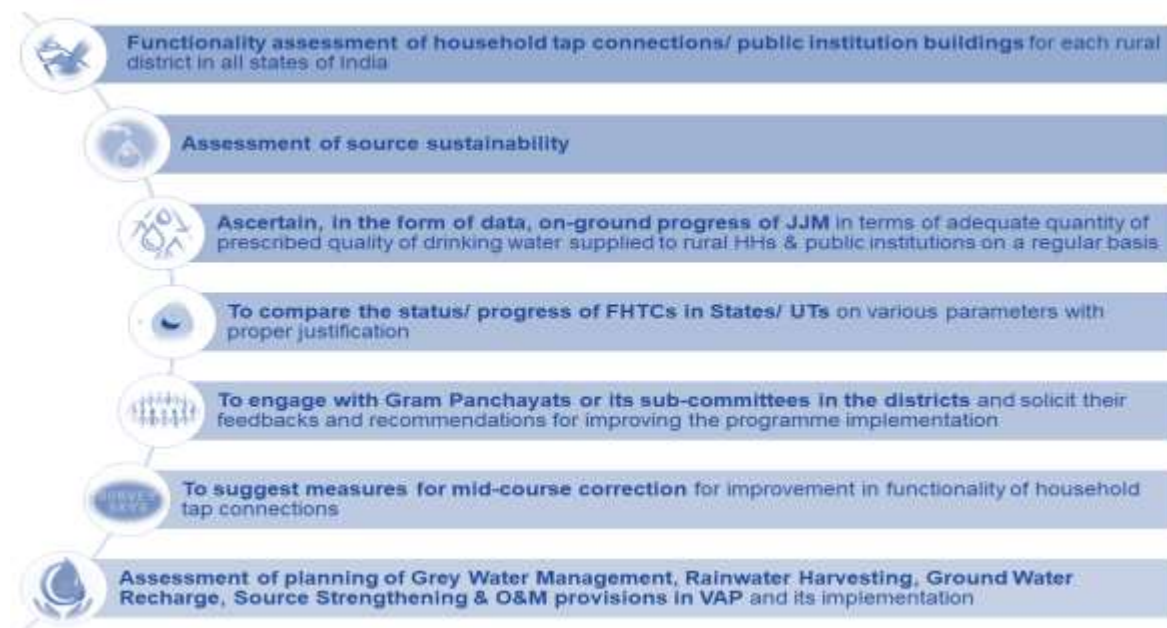
IMIS status:

- 1 (0% of all) village are Har Ghar Jal
- 543 (100% of all) villages are Non-Har ghar Jal
- SC/ST dominated district
- Non-JE/AES
- No- History of contamination.
- 66 (12% of all) villages with PWS (>20 FHTC)



2.2. FHTC Assessment Objectives

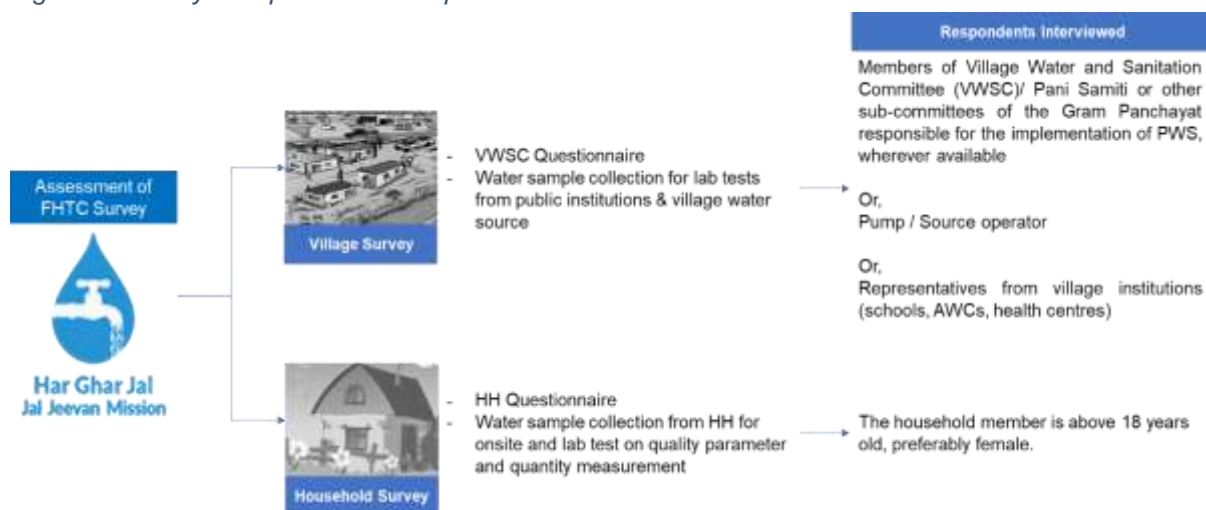
Figure 3: Objectives of Functionality of Tap Connections



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

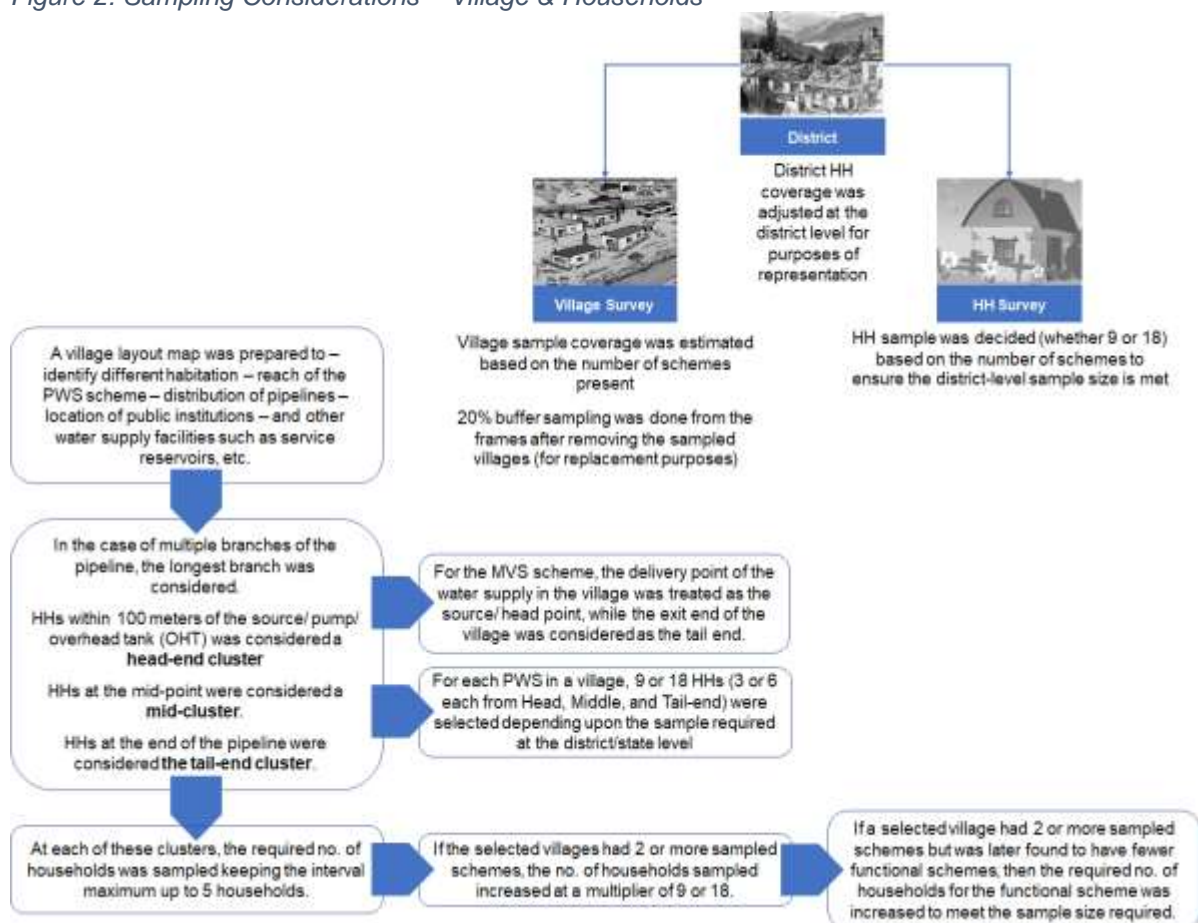
As per the design, all villages having a PWS scheme with 20 or more functional household tap connections were included in the sample frame. The probability proportionate to size (PPS) method was used for village selection in each district. The steps for random selection of villages using PPS are as presented:

Figure 5: Steps for Village Sampling



The key considerations for the village and household sampling were:

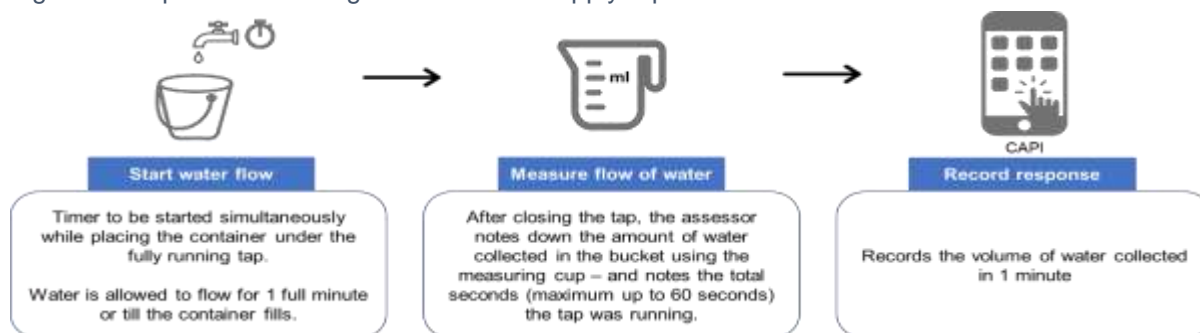
Figure 2: Sampling Considerations – Village & Households



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

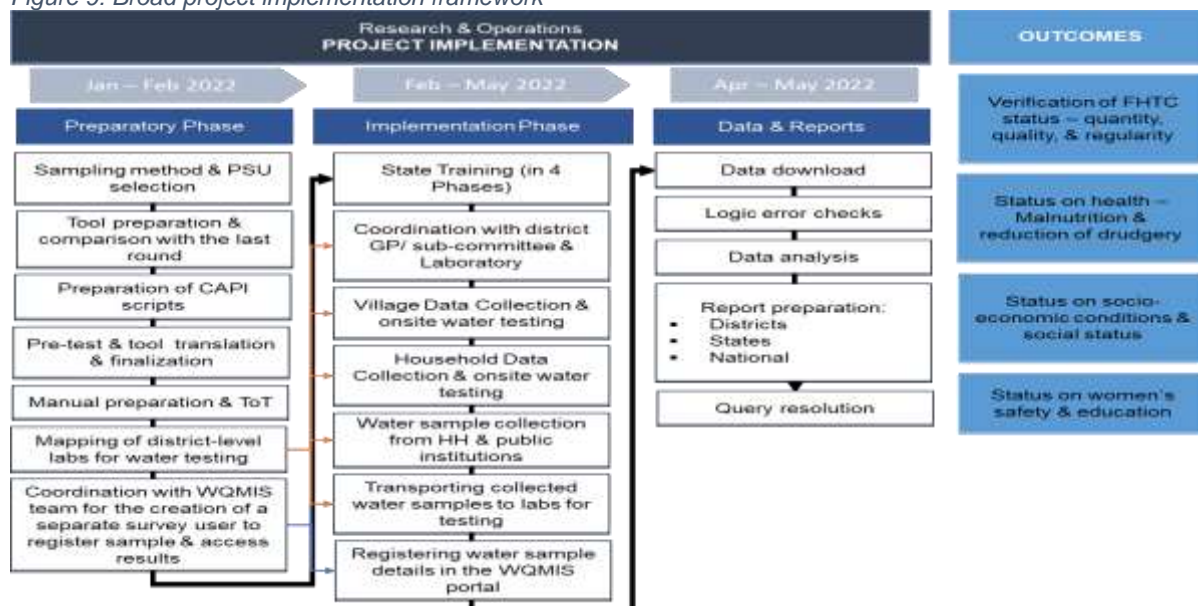


JJM, with the support of the BMI Division of ICMR, enabled a new interface on the WQMIS portal for “Functionality Assessment (FA) User” to enable seamless harmonization of water sample registration, sample submission for testing, and sharing of results as per the applicable quality parameters.

2.8. Project implementation

An overview of the project implementation is as presented:

Figure 9: Broad project implementation framework



A total of 8 teams (comprising 8 supervisors, 48 assessors, and 8 water collection assistants) were recruited, trained, and deployed to complete the survey across the state of Chhattisgarh. One survey team covered approximately 2 – 3 districts. The state-wise team deployment and fieldwork dates were as presented:

State	Teams deployed	Start date	End date	Total data collection days
Chhattisgarh	8 Teams	2/28/2022	4/20/2022	50 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

District	Targeted sample		Achieved sample		
	Village	HH	Village	HH	Public Institutions
Surajpur	12	378	12	382	0
Chhattisgarh	383	10,611	383	10,711	312

2.10. Sampled village and household profile

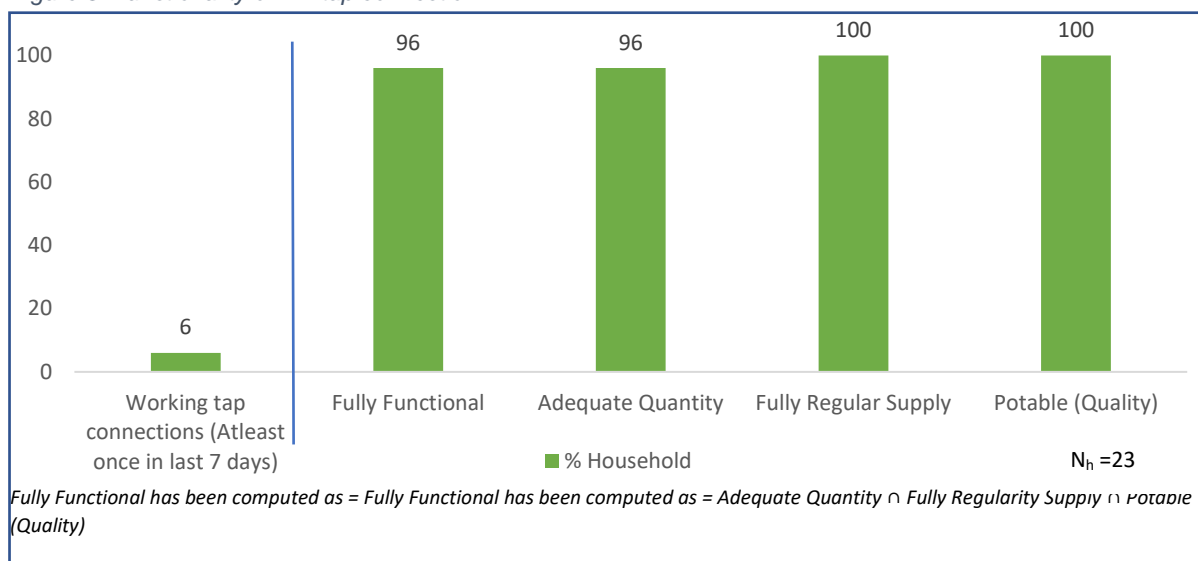
SAMPLED VILLAGES	SAMPLED HOUSEHOLDS
<ul style="list-style-type: none"> Total no. of villages covered in the district – 12 Percentage of SC dominated villages covered in the district is None% (which is lower than the state average, i.e., 8%) Percentage of ST dominated villages covered in the district is 58% (which is slightly higher than the state average, i.e., 54%) Higher proportion of sarpanch interviewed at the village level No, the district reported to have any historical incidence of water contamination 	<ul style="list-style-type: none"> Total no. of households covered in the district – 23 Proportion of General - 8%, SC 6%, ST% 49, OBC 37% households 28% of the FHTC connections are under the name of a female member Average household size – 6 >75% positive user experience in 0/5 measures

3. Findings

3.1. Functionality status of FHTC at household level

A. Overall Functionality* (in %)

Figure 3: Functionality of HH tap connection



It has been found that 6 percent of the sampled HHs (N=522) had working tap connections (i.e., received water at least once in last 7 days). Nearest out of ten (96percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).

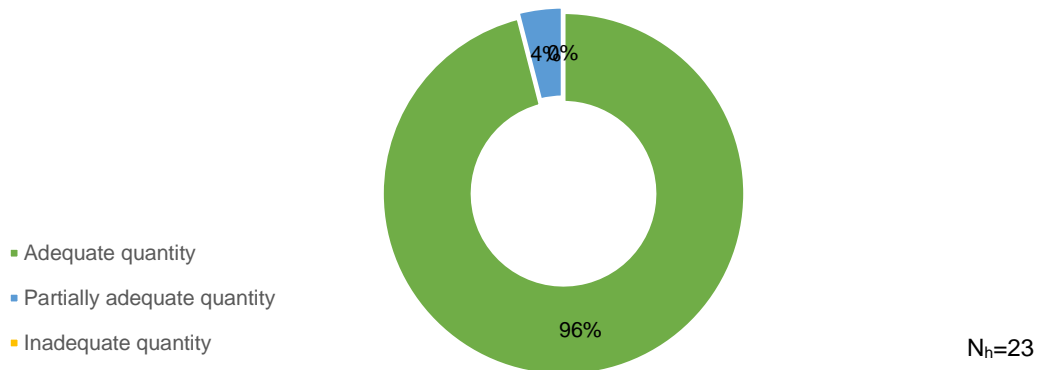
3.2. Quantity, Regularity, and Quality of Water

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)

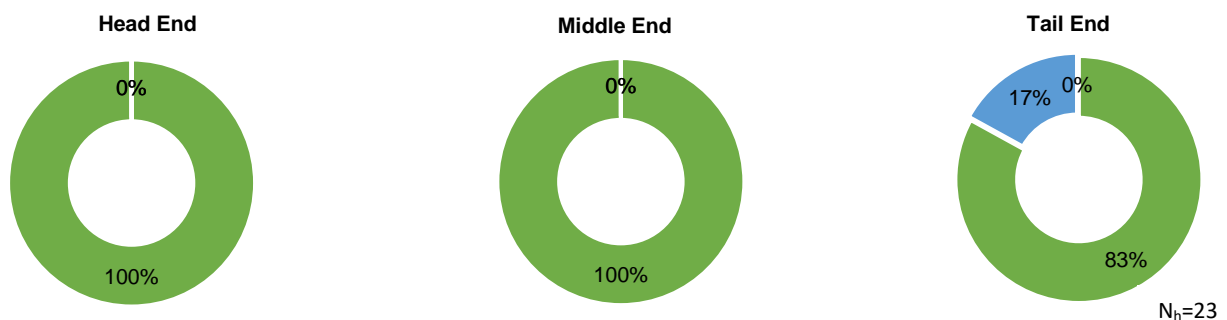
96% HHS reported receiving adequate quantity of water

Figure 4: Quantity of water received by households



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

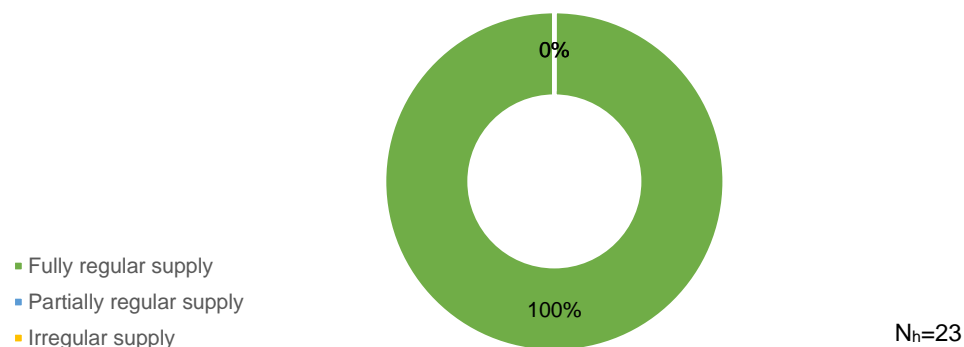
Figure 5: Quantity of water received across head, middle and tail end households



B. Regularity of water supply to households

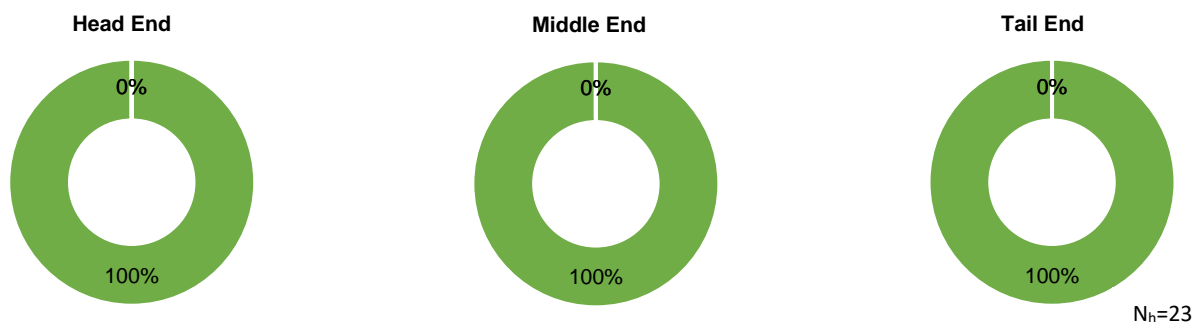
100% HHS receive a regular supply of water (as per agreed schedule)

Figure: Regularity of water received by households



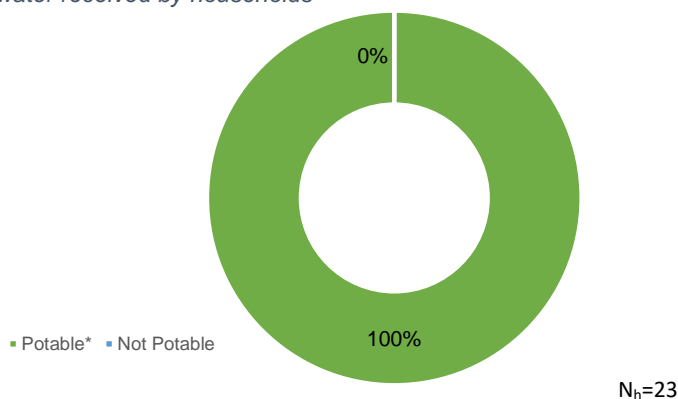
Regularity of water received across head, middle, and tail end

Figure 6: Regularity of water received across head, middle and tail end households



C. Water quality – Potability

Figure 7: Potable 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.

Village quality parameters reported within permissible range (in %)

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

Table No. 3: Household water quality parameters reported within permissible range (in % sample within permissible range)

Quality Parameters	No of samples tested	% Households
pH (on-site)	23	100
Turbidity	23	100
Total Hardness	23	100
Total Alkalinity	23	100
Chloride	23	100
Ammonia	0	0
Iron	0	0
Nitrate	0	0
Sulphate	0	0
Total Dissolved Solids	0	0
Bacteriological Test(Presence/Absence)	0	0
Fluoride	No history	
Arsenic	No history	

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

The Residual Chlorine (RC) in the Surajpur district was found in 0 % samples. Out of which 0% samples were having RC outside range whereas 100% 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.

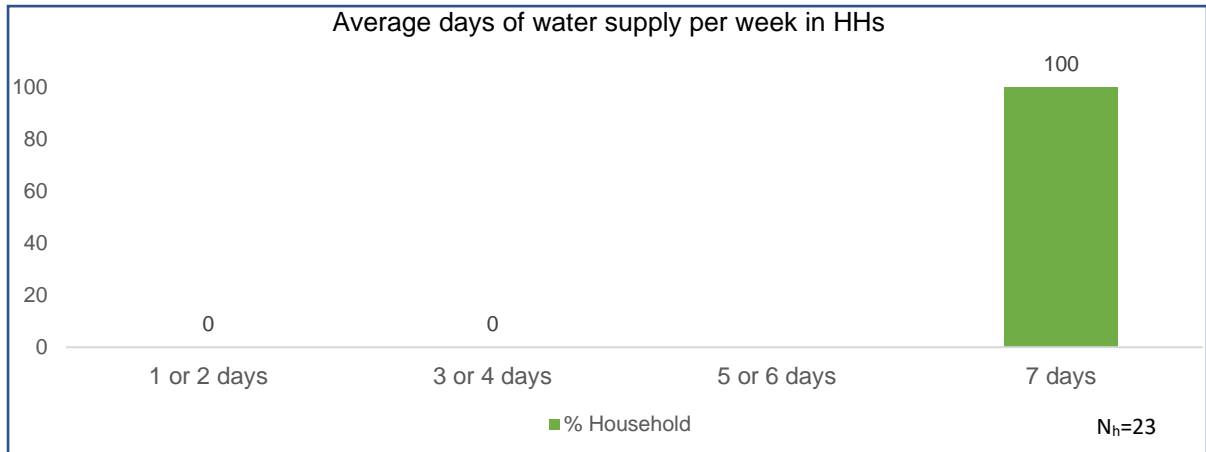
Comment on functioning of District Lab:

The district lab tested water samples for 10 water quality parameters. 23 water samples were submitted, and 23 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 8: Average number of days households receive water supply in a week (in %)

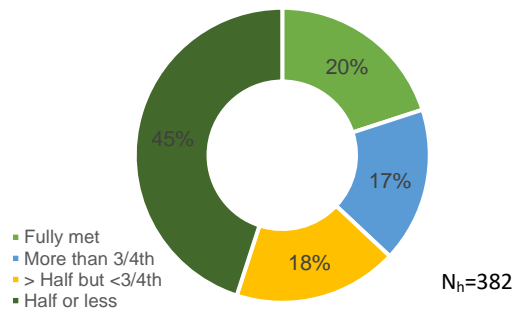


3.4. Household utilization of water for drinking and other activities

Fulfilment of requirement

20% HHs reported that their daily requirement of water is being met by FHTCs

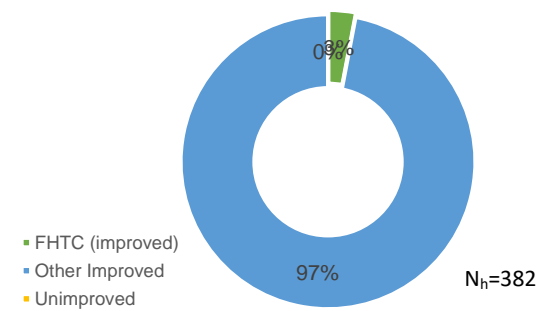
Figure 17: Daily household's requirement of water being met by FHTC



Primary source of drinking water

3% 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 (N_h=382)

% HHs purifying water before drinking	% HHs paying water service delivery charges	% HHs with booster pumps	% HHs having coping mechanism during scarcity
99%	0%	1%	77%
% HH aware of grievance redressal mechanism for reporting problems with FHTC	Channel for registering grievance (N _h =382*)	Key problems for reporting grievances (N=382)	% Reported complaints resolved (N _h =0)
35%	none	none	None%

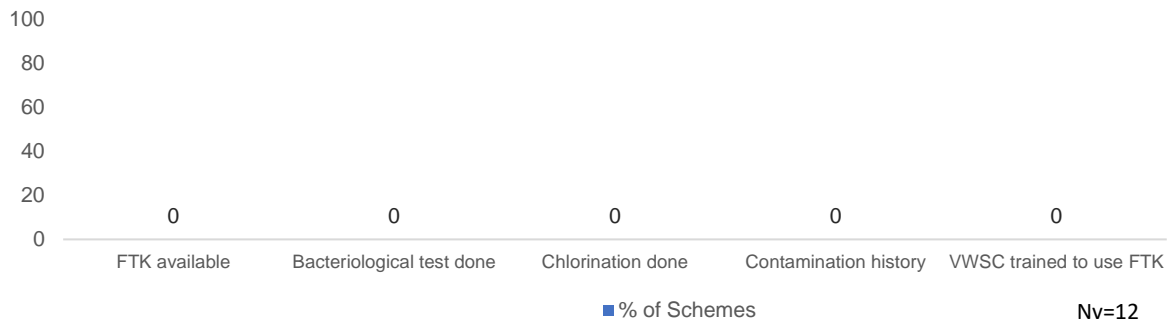
*HHs who reported complaints in last 1 year

3.6. Source sustainability at the village level

Schemes based on surface and ground water

9% of schemes are reported to be based on surface water and % ground water.

Figure 19: Schemes based on water source in village

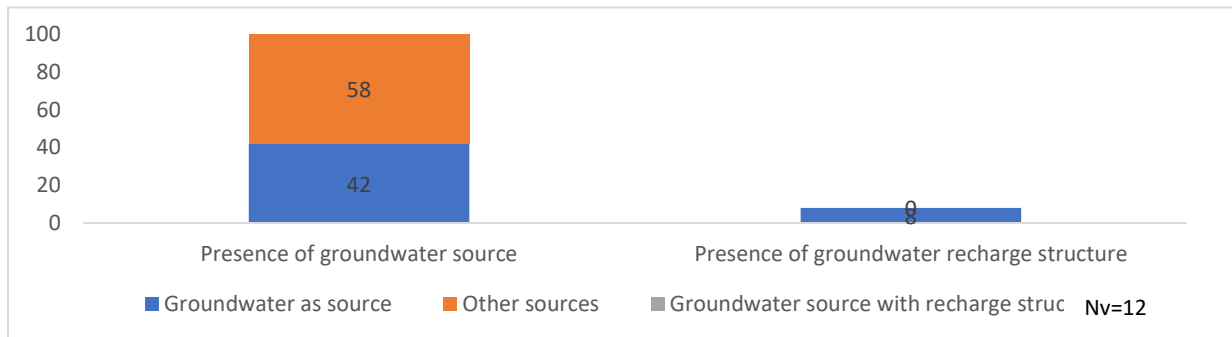


*'Surface Water Source' is Stream, Spring, Glacier, River, lake, pond etc. and Groundwater Source is open well, borewell, tube well, handpump, spring, etc

Villages reported having presence of a groundwater source

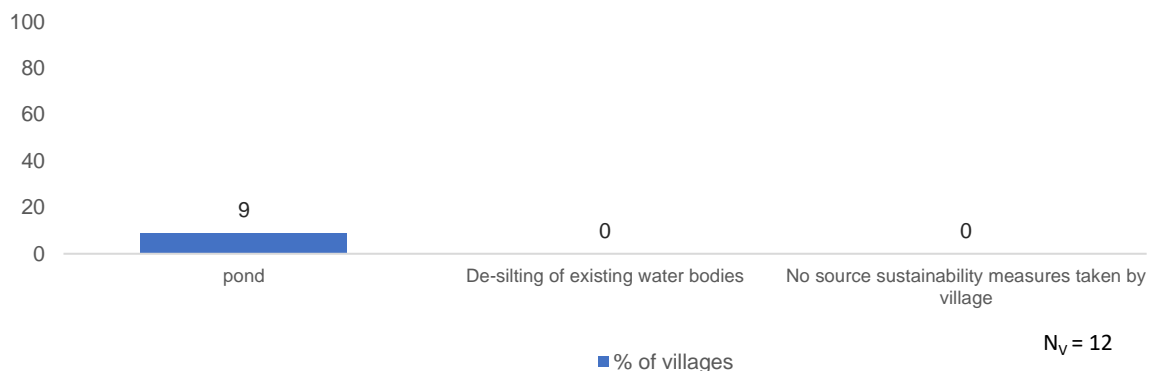
8% of villages reported the presence of groundwater sources like improved dug wells and borewells, and were supported by recharging structures.

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

“None of the villages reported to have any of the water quality monitoring and surveillance facilities (availability of FTK, chlorination mechanism, bacteriological test done in last 1 year, contamination history, and VWSC trained to use FTK) in the district.”

Status of JJM

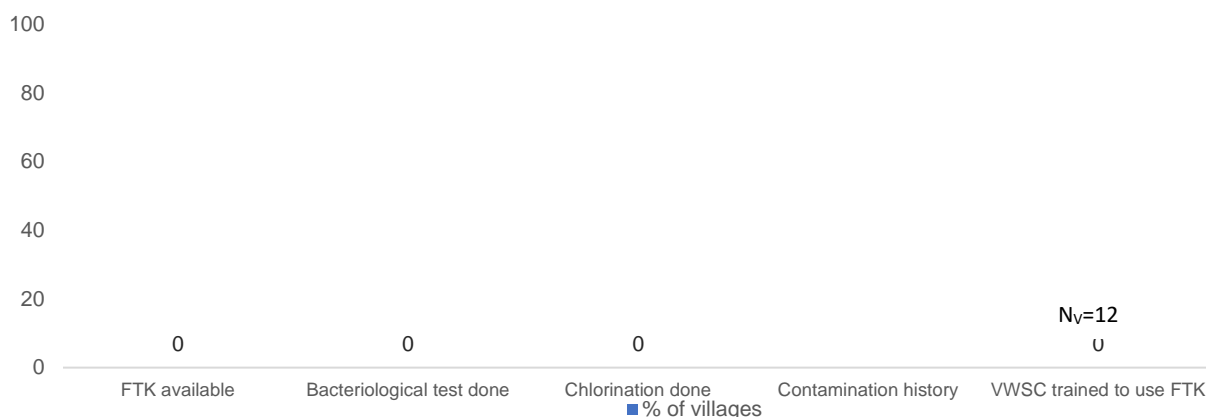


Figure 22: Water quality monitoring and surveillance by villages

A. VWSC/Pani Samiti and PWS signage in villages (N_v=12)

Presence of VWSC/Pani Samiti	Presence of VWSC/Pani Samiti	% Villages – VWSC/PO trained to use FTKs	% Villages with PWS signages
0%	0%	0%	0%

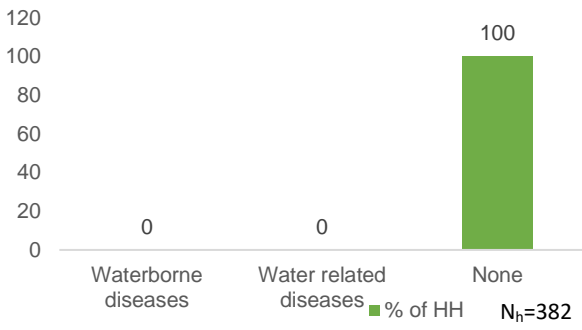
B. Water supply, storage and operation & maintenance at village level (N_v=12)

Average no. of supply in a day	% Villages levying water service delivery to HH	% Villages with skilled manpower for O&M	Community monitoring of water wastage in villages
0	0%	0%	None%
% Villages having OHT/ Sump	% Villages with O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances
8%	0%	Helpline	Pipeline leakage

3.8. Perception of HHs on Outcome Indicators

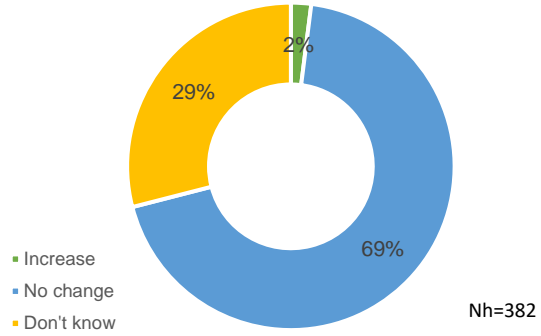
a. Health
Incidence of water borne diseases at HH level in last one year as reported

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



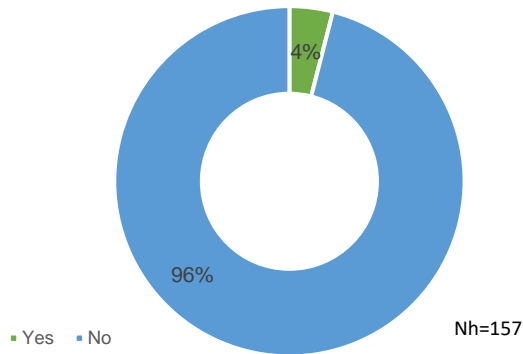
b. Economic Income
Change in employment days since FHTC programmes/schemes

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



3.9. User satisfaction

Table No. 4: User satisfaction - more than 75% happy with FHTC services			
S. No.	Parameter (N_h=382)		In %
1	Regularity		29
2	Overall quality		6
3	Colour		5
4	Taste		4
5	Odour		4

Note:

Base (N_v)=12 means all villages sampled and covered in Surajpur district

Base (N_H)=382 means all households sampled and covered across the 12 villages in Surajpur district

Base (N_H)=382 means all households where female members used to fetch water before HH tap connection

4. Annexures

4.1. Summary of villages

S.No.	Name of sample village	Total HHs	Sample HHs	Actual sample HHs (achieved)	No. of scheme	No of source of surface water	No of source of Ground water
1	Total	36070	378	394	13	9	8
2	Khadgawankala	4144	36	37	1	2	1
3	Kewara	3299	18	19	1		
4	Sudamanagar	1600	18	19	1	2	1
5	Basdei	4575	18	19	1		
6	Ketka	2601	18	19	1		
7	Satpata	4474	36	37	1		
8	Dedari	2403	18	19	1	2	1
9	Karwan	3834	18	19	1	2	1
10	Salka	2896	72	77	2	1	4
11	Chhindiya	2254	36	37	1		
12	Vindhychal	562	18	19	1		
13	Salaka	3428	72	73	1		

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

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

S. No.	Village	Functionality* (% HH)	Quantity \geq 55 LPCD (% HH)	Regularity (% HH)	Potability (% HH)	Working tap connections (%HH)
1	Total	95.7	95.7	100.0	100.0	100.0
2	Salka	95.7	95.7	100.0	100.0	100.0

4.3. villages not meeting the quality parameters

1. pH (Acceptable Range- 6.5 to 8.5)					
S.No.	Block Name	Panchayat Name	Villages	No. of HHs outside the acceptable range	
NA	NA	NA	NA	NA	
2. Free residual chlorine (Acceptable Range- 0.2 to 1 PPM)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	HHs with no chlorine
1	Surajpur	Salka	Salka	0	23
3. Turbidity (Acceptable Range- 1 to 5 NTU)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	
NA	NA	NA	NA	NA	
4. Total hardness (Acceptable Range- 200 to 600 Milligram/litre)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	
NA	NA	NA	NA	NA	
5. Total alkalinity (Acceptable Range- 200 to 600 Milligram/litre)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	
NA	NA	NA	NA	NA	
6. Chloride (Acceptable Range- 250 to 1000 Milligram/litre)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	

Functionality Assessment of Household Tap Connections under JJM

NA	NA	NA	NA	NA
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. Iron (Acceptable Range- 1 Milligram/litre)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range
NA	NA	NA	NA	NA
9. Nitrate (Acceptable Range- 1 Milligram/litre)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range
NA	NA	NA	NA	NA
10. Sulphate (Acceptable Range- 200 to 400 Milligram/litre)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range
NA	NA	NA	NA	NA
11. Total dissolved solids (Acceptable 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. Bacteriological test (Presence)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range
NA	NA	NA	NA	NA
13. Fluoride (Acceptable Range- 1 to 1.5 Milligram /litre)				
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