

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



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

Contents

Abbı	reviations	3
Glos	ssary	4
1.	Factsheet	6
2.	Context	8
2.1.	District snapshot: Kaushambi	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). 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	
3.4.	Household utilization of water for drinking and other activities	
3.5.	Status at HH level (Nh=406)	18
3.6.	Source sustainability at the village level	19
3.7.	Water quality monitoring and surveillance in the villages	19
3.8.	Status of JJM	20
3.9.	Perception of HHs on Outcome Indicators	21
3.10). User satisfaction	22
4.	Annexures	23
4.	1. Summary of villages	23
4.2	2. Functionality – 55 LPCD vs regularity vs potability vs working tap connection	23
4.3	3. Villages not meeting the quality parameters	24



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:

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
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.	v. Bacteriological test for Total coliform			
	bacteria and E. coli or thermotolerant		Shall not be detectable in	n any 100 ml sample
	coliform bacteria			

- 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	Kaushambi
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last 7 days (%)	59	95
Fully functional (%)	57	78
Partially functional (%)	35	22
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	78
Partially Regular Supply (not as per schedule) (%)	25	20
Irregular Supply (less than 9 months' supply) (%)	8	2
Potable (Quality) water received by households		
Potable (%)	92	100
Non-potable (%)	8	0
Residual Chlorine (RCL) detected with in permissible limits (%)	4	0

Household level indicators		
Households receiving water supply daily-7 days a week (%)	88	100
Daily HH requirement of water being met by FHTC (%)	51	92
Households reported FHTC as a primary source of drinking water (%)	24	86
Households purifying water before drinking (%)	6	3
Households paying water service delivery charges (%)	19	49
Households having coping mechanisms during scarcity (%)	35	21
Households aware of grievance redressal mechanism for reporting problems with FHTC (%)	34	39
Households reported incidence of water-borne diseases in the last year (%)	1	1
Households reported a reduction in time and effort in collecting water (%)	56	94
Overall user satisfaction at the household level		
Regularity (%)	58	93
Overall quality (%)	59	94



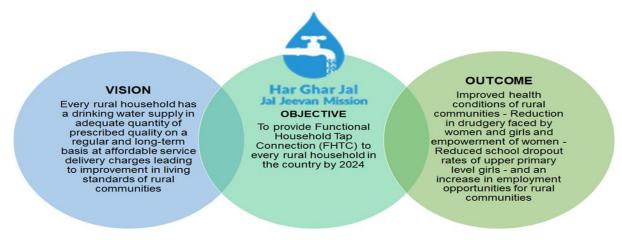
Indicators	Uttar Pradesh	Kaushambi
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	32	33
Villages with groundwater resource (%)	14	0
Villages having groundwater recharge structure ¹ (%)	6	0
Water supply and storage status in villages		
Average no. of times water is supplied in a day	1	2
Villages having OHT/ Sump for storage of water (%)	64	95
Water quality monitoring and surveillance in the villages		
Villages with Field Test Kits (%)	5	0
Villages in which bacteriological test was done in last 1 year by VWSC/ Pani Samiti (%)	4	15
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	15
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	45
Convergence of JJM activities with other schemes in the villages (%)	1	5
Villages having skilled manpower for Operation & Maintenance of PWS schemes (%)	12	5
Community monitoring of water wastage in villages (%)	2	0

 $^{^{1}}$ 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: Kaushambi

District Kaushambi of Uttar Pradesh has a population of 16,12,822. The district has 8 blocks. Out of 746 villages in the district, 286 are SC dominated and None are ST dominated villages. The district lies in Upper Gangetic Plains region and receives an annual rainfall of 494.9mm.

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

Figure 2: District IMIS Status & Map

IMIS status:

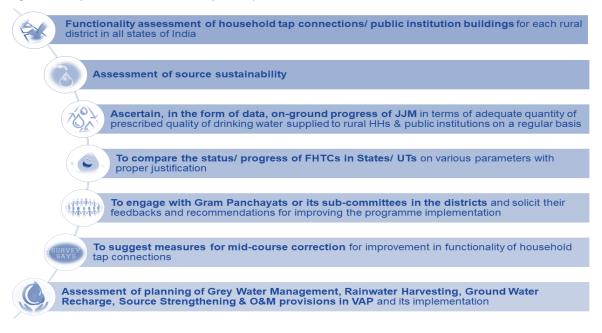
- 12 (2% of all) villages are Har Ghar Jal
- 734 (98% of all) villages are Non-Har ghar Jal
- SC/ST dominated district
- Non JE/AES
- Yes- History of water contamination
- 70 (9% of all) villages with PWS more than 20 FHTC





2.2. FHTC Assessment Objectives

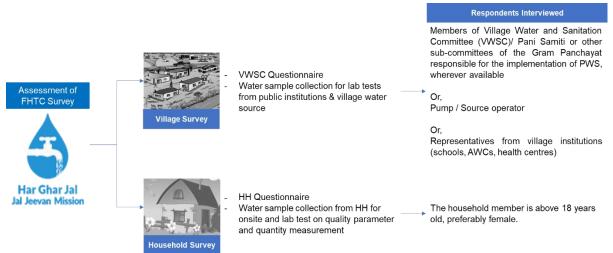
Figure 3: Objectives of Functionality of Tap Connections



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

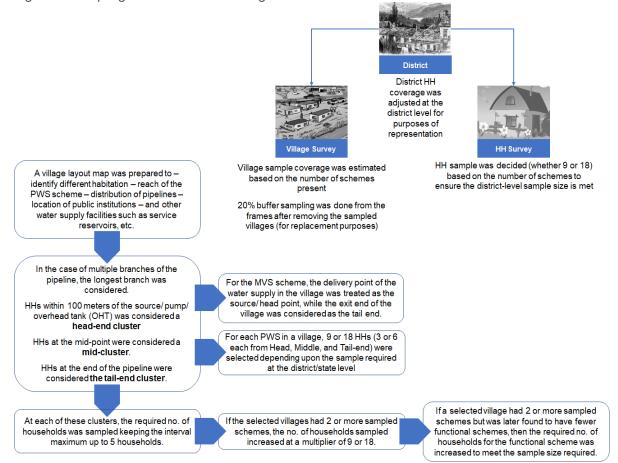
As per the design, all villages having a PWS scheme with 20 or more functional household tap connections were included in the sample frame. The probability proportionate to size (PPS) method was used for village selection in each district. The steps for random selection of villages using PPS are as presented:

Figure 5: Steps for Village Sampling



The key considerations for the village and household sampling were:

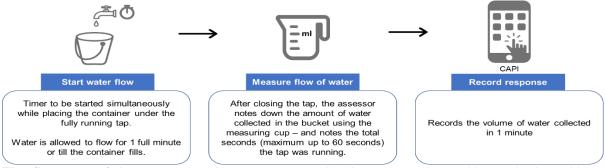
Figure 6: Sampling Considerations – Village & Households



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.

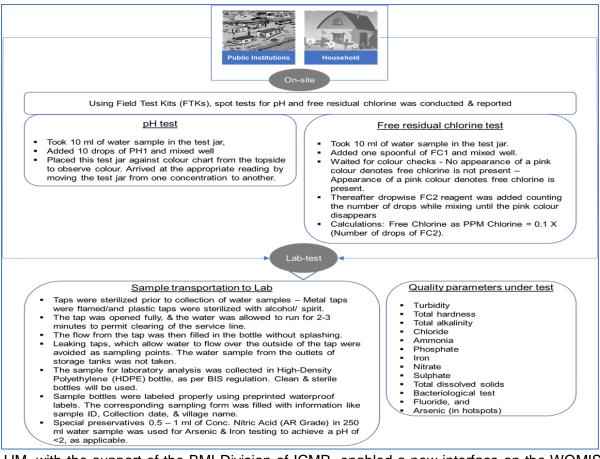
The water flow rate was not measured for village-level public institutions.

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:

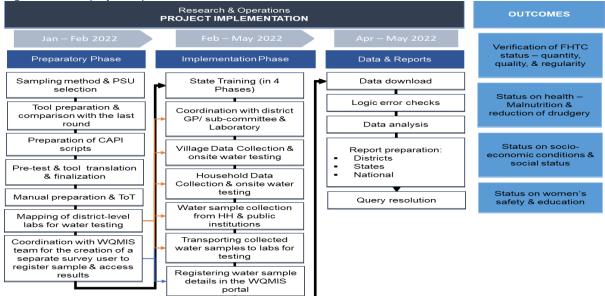


Figure 9: Broad project implementation framework



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 state 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			tes		
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: Sample covered					
	Targeteo	d sample	Achieved sample		
District	Village	НН	Village	НН	Public Institutions
Kaushambi	20	396	20	406	1
Uttar Pradesh	1,321	30,204	1,319	30,723	497

2.10. Sampled village and household profile

SAMPLED VILLAGES	SAMPLED HOUSEHOLDS
• Total no. of villages covered in the district – 20	Total no. of households covered in the district
Percentage of SC dominated villages covered	– 387
in the district is 40% (which is higher than the	 Proportion of General - 11%, SC 51%, ST% 2,
state average, i.e., 18%)	OBC 36% households
Percentage of ST dominated villages covered	• 39% of the FHTC connections are under the
in the district is 0% (which is lower than the	name of a female member
state 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 reported to have any historical	
incidence of water contamination	



3. Findings

3.1. Functionality status of FHTC at household level

A. Overall functionality* (in %)

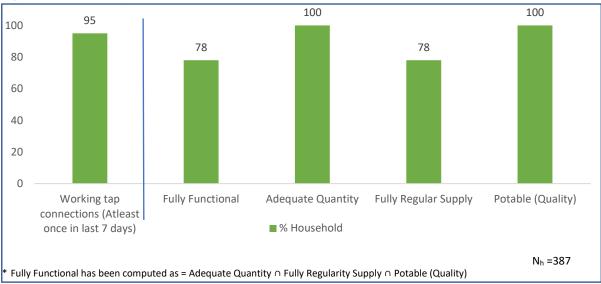
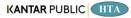


Figure 10: Functionality of HH tap connection

It has been found that 95 percent of the sampled HHs (N=387) had working tap connections (i.e., received water at least once in last 7 days). More than seven out of ten (78 percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).



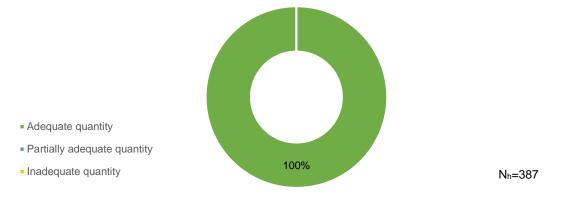
3.2. Quantity, Regularity, and Quality of Water

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)

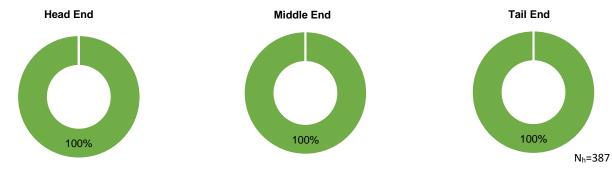
100% HHs reported receiving adequate quantity of water

Figure 11: Quantity of water received by households



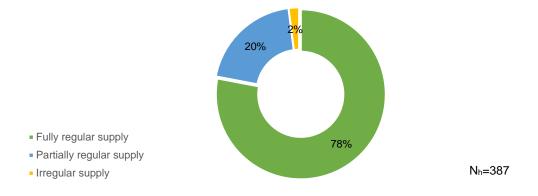
Quantity of water received across head, middle, and tail end HHs

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

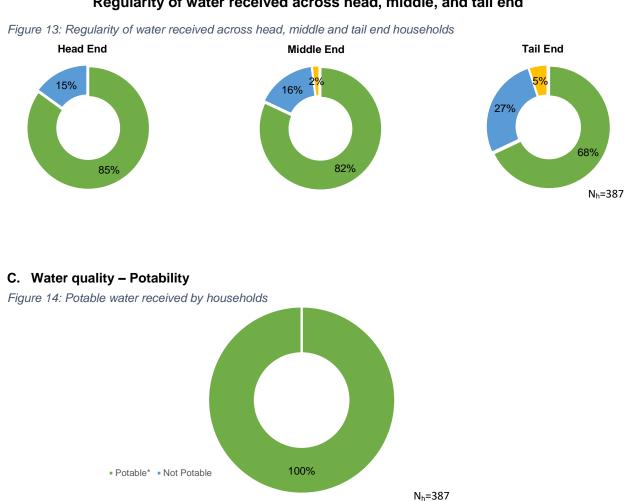


B. Regularity of water supply to households

78% 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 (% sample within
permissibl	e range)

	Water Samples Tested from Public Institutes					
Quality Parameters (NV=20)	Anganwadi Centre	Health Facility	Schools	Others		
pH (on-site)		100				
Turbidity		Not te	ested			
Total Hardness		Not te	ested			
Total Alkalinity	Not tested					
Chloride		Not te	ested			
Ammonia		Not te	ested			
Iron		No hi	istory			
Nitrate		Not te	ested			
Sulphate		Not te	ested			
Total Dissolved Solids	Not tested					
Bacteriological Test	Not tested					
Fluoride	No history					
Arsenic	Not tested					

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

Quality Parameters	No of samples tested	% Households				
pH (on-site)	387	100				
Turbidity	Not test	ted				
Total Hardness	Not test	ted				
Total Alkalinity	Not test	ted				
Chloride	Not test	ted				
Ammonia	Not test	ted				
Iron	No histo	ory				
Nitrate	Not test	ted				
Sulphate	Not test	ted				
Total Dissolved Solids	Not test	Not tested				
Bacteriological Test(Absence)	Not test	Not tested				
Fluoride	No histo	No history				
Arsenic	Not test	ted				

 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 Kaushambi district was found in none of the samples. All the samples had no RC.

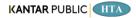
The Residual Chlorine in piped water supply is one of the most important preventive actions to assure quality of water against bacteriological contamination from source to consumption. The presence of residual chlorine within permissible limits is indicator of well-maintained and healthy piped water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

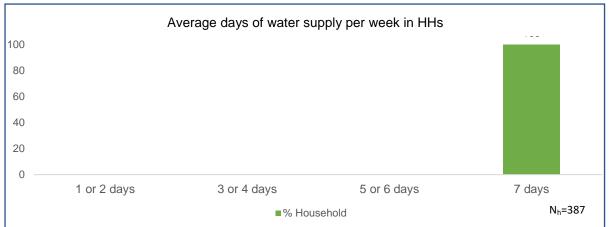
The district lab tested water samples for 0 water quality parameters. 388 water samples were submitted, and 0 water samples were tested, and reports made available. The turnaround time for testing was more than 48 hours in most cases.

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.

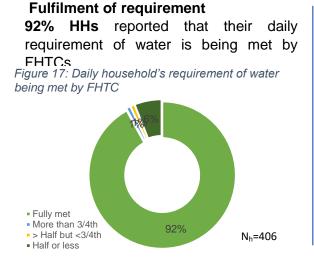


3.3. Average water supply days in a week

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

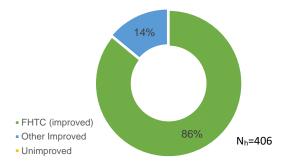


3.4. Household utilization of water for drinking and other activities

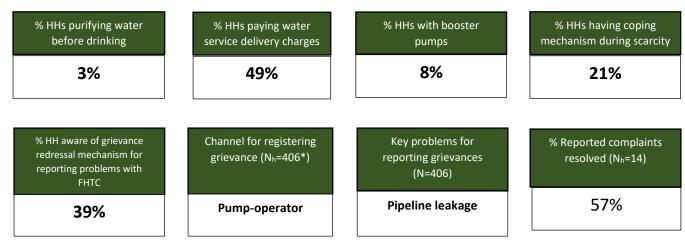


Primary source of drinking water 86% HHs reported HH tap connection as their primary source of drinking water

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



3.5. Status at HH level (Nh=406)



*HHs who reported complaints in last 1 year

3.6. Source sustainability at the village level

Schemes based on surface and ground water

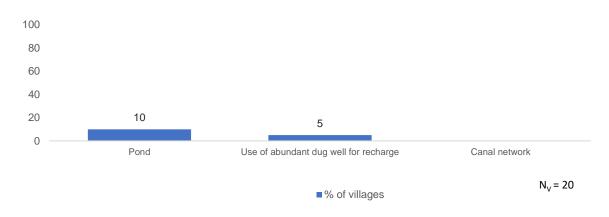
None of the schemes are reported to be based either on surface water or on ground water sources.

Villages reported having presence of a groundwater source

0% of villages reported the presence of groundwater sources like improved dug wells and borewells.

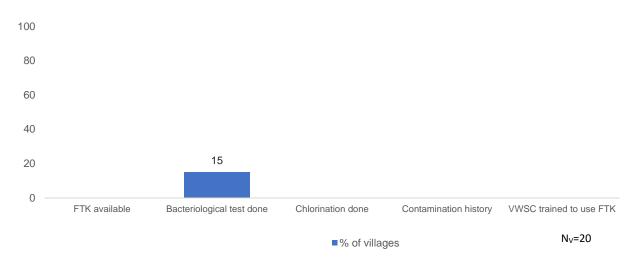
The top 3 other source sustainability measure taken by villages

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





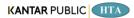
3.8. Status of JJM

A. VWSC/Pani Samiti and PWS signage in villages (Nv=20)

15%	0%	0%	0%
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

B. Water supply, storage and operation & maintenance at village level (Nv=20)

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%	
2	45%	5%		
% Villages having OHT/ Sump	% Villages having faced O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances	
95%	45%	Block functionary	Pipeline leakage	

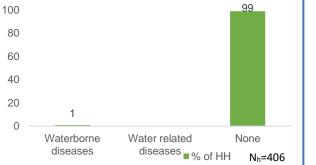


3.9. Perception of HHs on Outcome Indicators

a. Health

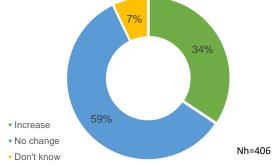
Incidence of water borne diseases at HH level in last one year as reported

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



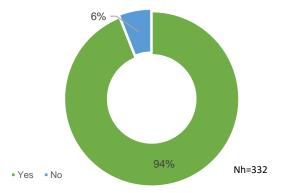
b. Economic Income Change in employment days since FHTC programmes/schemes

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 (Nh=406) In %				
1	Regularity 93				
2	Overall quality $\textcircled{\begin{tabular}{lllllllllllllllllllllllllllllllllll$				
3	Colour (2) 93				
4	Taste 95				
5	Odour	$\bigcirc \bigcirc$	76		

Note:

Base $(N_v)=20$ means all villages sampled and covered in Kaushambi district

Base (N $_{\rm H}){=}406$ means all households sampled and covered across the 20 villages in Kaushambi district

Base (N_H)=406 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	No of source of Ground water
1	Total	396	426	21		
2	Naudiya Saurai Bujurg	18	19	1		
3	Shauri Bujurga	18	20	1		
4	Swadkhat Urf Kara	18	20	1		
5	Chakchamarupur Daranagar	18	20	1		
6	Afzalpur Wari	18	19	1		
7	Nara	18	19	1		
8	Kokhraj Uperhar	18	19	1		
9	Andhawa	18	20	1		
10	Danpur	18	19	1		
11	Purab Sharira	36	38	1		
12	Ukhaiya Khas	18	21	1		
13	Rasoolpur Ukhaiya	18	19	1		
14	Ashadha	18	19	1		
15	Kosam Khiraj	36	39	1		
16	Mahgaon Deh Mafi	18	19	1		
17	Sayd Sarawan	18	19	1		
18	Samaspur	18	20	1		
19	Charwa	18	19	1		
20	Rathgha	18	19	2		
21	Basuhar	18	19	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)	
1	Total	78.3	100.0	78.3	100.0	100.0	
2	Naudiya Saurai Bujurg	55.6	100.0	55.6	100.0	100.0	
3	Shauri Bujurga	100.0	100.0	100.0	100.0	100.0	
4	Swadkhat Urf Kara	63.2	100.0	63.2	100.0	100.0	
5	Chakchamarupur Daranagar	100.0	100.0	100.0	100.0	100.0	
6	Afzalpur Wari	44.4	100.0	44.4	100.0	100.0	
7	Nara	44.4	100.0	44.4	100.0	100.0	
8	Kokhraj Uperhar	77.8	100.0	77.8	100.0	100.0	
9	Danpur	77.8	100.0	77.8	100.0	100.0	
10	Purab Sharira	91.9	100.0	91.9	100.0	100.0	
11	Ukhaiya Khas	95.0	100.0	95.0	100.0	100.0	
12	Rasoolpur Ukhaiya	11.1	100.0	11.1	100.0	100.0	
13	Ashadha	100.0	100.0	100.0	100.0	100.0	
14	Kosam Khiraj	97.4	100.0	97.4	100.0	100.0	
15	Mahgaon Deh Mafi	100.0	100.0	100.0	100.0	100.0	
16	Sayd Sarawan	100.0	100.0	100.0	100.0	100.0	
17	Samaspur	52.6	100.0	52.6	100.0	100.0	
18	Charwa	94.4	100.0	94.4	100.0	100.0	



Table	able 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)
19	Rathgha	61.1	100.0	61.1	100.0	100.0
20	Basuhar	83.3	100.0	83.3	100.0	100.0

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

4.3. Villages not meeting the quality parameters

S.No. Block Name Panchayat Name Villages Pris Sutside the acceptable/permissible range 0 no chlorine no chlorine 1 Chaial Charwa Charwa 0 11 2 Rathgha Rathgha Rathgha 0 11 3 Daranagar 0 11 4 Shauri Bujurg Naudiya Saurai 0 11 5 Shauri Bujurg Naudiya Saurai 0 11 6 Kara Kara Kara 11 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 31 9 Ashadha Ashadha 0 11 10 Waratganj Mahgaon Mafai 0 11 11 Sargawan Sayd Sarawan Sayd Sarawan 0 11 11 Sargawan Sayd Sarawan Sayd Sarawan 0 11 11 Sargawan Sayd Sarawan Sayd Sarawan 0 11 12 Sargawan <t< th=""><th>Table I</th><th>No. 8: Qua</th><th>ality parameters dis</th><th>ssatisfied at village</th><th>level</th><th></th></t<>	Table I	No. 8: Qua	ality parameters dis	ssatisfied at village	level	
NAM Name Name Name NA NA NA NA NA NA NA NA 2 Free residual chlorine (Acceptable Range 0.2 to 1 PPM) HHs outside the acceptable/permissible range HHs with acceptable/permissible range HHs with acceptable/permissible range 1 Chaial Charwa Charwa 0 11 2 Rathgha Rathgha 0 11 3 Kara Chakchamarupur Chakchamarupur 0 11 4 Shauri Bujurg Naudiya Saurai 0 11 5 Swadkhat Urf Swadkhat Urf 0 11 6 Kara Ashadha Ashadha 0 11 7 Kaushambi Kosam Khiraj 0 33 8 Manjhanpur Ashadha Ashadha 0 11 10 Muratganj Malgaon Malgaon Deh 0 11 11 Sarawan Sayd Sarawan 0 11 11	1. pH	(Acceptable	Range- 6.5 to 8.5)			
2. Free residual chlorine (Acceptable Range- 0.2 to 1 PPM) S.No. Name Block Name Panchayat Name Villages HHs outside the acceptable/permissible range HHs with no chlorine 1 Chaial Charwa Charwa 0 11 2 Rathgha Rathgha 0 11 3 Kara Chakchamarupur Chakchamarupur 0 11 4 Shauri Bujurg Naudiya Saurai 0 11 5 Shauri Bujurg Naudiya Saurai 0 11 6 Swadkhat Urf Swadkhat Urf Swadkhat Urf 0 13 7 Kaushambi Kosam Khiraj 0 31 11 9 Ukhaiya Khas 0 11 11 11 10 Muratganj Mahgaon Mahgaon Deh Mafaon 0 11 11 Sayd Sarawan Sayd Sarawan 0 11 12 Sayd Sarawan Sayd Sarawan 0 11 13 Sarasawan Dappur 0 11 14 Newada Basuhar <	S.No.			Villages	No. of HHs outside the accepta	ble range
Block Name Panchayat Name Villages HHs outside the acceptable/permissible range HHs with no chlorine 1 Chaixa Charwa 0 11 2 Rathgha Rathgha 0 11 3 Rathgha Rathgha 0 11 3 Rathgha Chakchamarupur Daranagar Chakchamarupur Daranagar 0 11 4 Shauri Bujurg Naudiya Saurai Bujurg 0 11 5 Swadkhat Urf Kara Swadkhat Urf Kara Swadkhat Urf Kara Naudiya Saurai Bujurg 0 11 6 Swadkhat Urf Kara Swadkhat Urf Kara Swadkhat Urf Kara Nasabaha 0 11 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 33 8 Manjhanpur Ashadha Ashadha 0 11 10 Ukhaiya Khas Ukhaiya Khas 0 11 11 Sayd Sarawan Sayd Sarawan 0 11 12 Sarasawan Danpur 0						
S.No. Block Name Panchayat Name Villages Pris Sutside the acceptable/permissible range 0 no chlorine no chlorine 1 Chaial Charwa Charwa 0 11 2 Rathgha Rathgha Rathgha 0 11 3 Daranagar 0 11 4 Shauri Bujurg Naudiya Saurai 0 11 5 Shauri Bujurg Naudiya Saurai 0 11 6 Kara Kara Kara 11 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 31 9 Ashadha Ashadha 0 11 10 Waratganj Mahgaon Mafai 0 11 11 Sargawan Sayd Sarawan Sayd Sarawan 0 11 11 Sargawan Sayd Sarawan Sayd Sarawan 0 11 11 Sargawan Sayd Sarawan Sayd Sarawan 0 11 12 Sargawan <t< th=""><th>2. Fre</th><th>ee residual ch</th><th>lorine (Acceptable</th><th>Range- 0.2 to 1 PP</th><th>M)</th><th></th></t<>	2. Fre	ee residual ch	lorine (Acceptable	Range- 0.2 to 1 PP	M)	
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Kara Chakchamarupur Daranagar Chakchamarupur Daranagar 0 11 4 Shauri Bujurg Naudiya Saurai Bujurg 0 11 5 Shauri Bujurg Naudiya Saurai Bujurg 0 11 6 Swadkhat Urf Swadkhat Urf 0 11 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 33 8 Manjhanpur Ashadha Ashadha 0 11 10 Karaya 0 11 0 33 11 Marijannpur Ashadha Ashadha 0 11 10 Waratganj Mahgaon Mahgaon 0 11 11 Sayd Sarawan Sayd Sarawan 0 11 12 Sayd Sarawan Sayd Sarawan 0 11 13 Sarasawan Danpur 0 11 14 Newada Basuhar 0 11 15 Sarasawan Danpur 0 11	1	Chaial	Charwa	Charwa	0	18
3 Daranagar Daranagar O 11 5 Shauri Bujurg Naudiya Saurai 0 11 5 Swadkhat Urf Swadkhat Urf 0 11 6 Swadkhat Urf Swadkhat Urf 0 11 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 33 8 Manjhanpur Ashadha Ashadha 0 11 9 Ukhaiya Khas Ukhaiya Khas 0 11 10 Wuratganj Mahgaon Mahgaon Deh 0 11 11 Sayd Sarawan Sayd Sarawan 0 11 12 Sard Saraspur Samaspur 0 11 13 Sarasawan Sayd Sarawan 0 11 14 Newada Basuhar Basuhar 0 11 15 Sarsawan Danpur Danpur 0 11 16 Purab Sharira Purab Sharira 0 11 12	2		Rathgha	Rathgha	0	18
4 Bujurg	3	Kara			0	19
6 Swadkhat Urf Kara Swadkhat Urf Kara 0 11 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 33 8 Manjhanpur Ashadha Ashadha 0 11 9 Ukhaiya Khas Ukhaiya Khas 0 11 10 Ukhaiya Khas 0 11 11 Muratganj Mahgaon Mafgaon Deh Mafi 0 11 12 Sayd Sarawan Sayd Sarawan 0 11 13 Samaspur Samaspur 0 11 14 Newada Basuhar Basuhar 0 11 15 Sarawan Danpur Danpur 0 11 16 Purab Sharira Purab Sharira 0 11 18 Kokhraj Kokhraj Uperhar 0 11 19 Nare Nare Nare 11 3. Turbidity (Acceptable Range- 1 to 5 NTU) Samas 14 Name Name Name			Shauri Bujurg		0	18
6 Kara Kara Kara 7 Kaushambi Kosam Khiraj Kosam Khiraj 0 33 8 Manjhanpur Ashadha Ashadha 0 14 9 Ukhaiya Khas Ukhaiya Khas 0 14 9 Muratganj Mahgaon Mahgaon Deh 0 14 10 Muratganj Mahgaon Mahgaon Deh 0 14 11 Maria Sayd Sarawan Sayd Sarawan 0 14 12 Sayd Sarawan Sayd Sarawan 0 14 13 Samaspur Samaspur 0 14 14 Newada Basuhar Basuhar 0 14 15 Sarasam Danpur Danpur 0 14 16 Panchayat Afzalpur Wari Afzalpur Wari 0 14 17 Sirathu Afzalpur Wari Afzalpur Wari 0 14 18 Kokhraj Kokhraj Uperhar 0 14 19 Nara Nara Nara 0 14 19 Name Name Villages HHs outside the acceptable/permissible range 10 Name NA NA	5			Shauri Bujurga	0	19
8 Manjhanpur Ashadha Ashadha 0 14 9 Ukhaiya Khas Ukhaiya Khas 0 11 10 Rasolpur 0 11 11 Muratganj Mahgaon Mahgaon Deh Mafi 0 0 11 Sayd Sarawan Sayd Sarawan 0 11 12 Samaspur Samaspur 0 11 13 Saraswan Danpur Danpur 0 11 14 Newada Basuhar Basuhar 0 11 16 Purab Sharira Purab Sharira 0 11 17 Sirathu Afzalpur Wari Afzalpur Wari 0 11 18 Nara Nara Nara 0 11 3. Turbidity (Acceptable Range-1 to 5 NTU) HHs outside the acceptable/permissible range NA NA NA NA NA NA A NA NA NA NA NA S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	6				0	19
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10 Rasoolpur Ukhaiya 0 11 11 Muratganj Mahgaon Mahgaon Deh Mafi 0 11 12 Sayd Sarawan Sayd Sarawan 0 11 13 Sayd Sarawan Sayd Sarawan 0 11 14 Newada Basuhar Basuhar 0 11 15 Sarsawan Danpur Danpur 0 11 16 Purab Sharira Purab Sharira 0 11 17 Sirathu Afzalpur Wari Afzalpur Wari 0 11 18 Kokhraj Kokhraj Uperhar 0 11 19 Nara Nara 0 11 3. Turbidity (Acceptable Range- 1 to 5 NTU) Sinck Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA 4. Total hardness (Acceptable Range- 200 to 600 Milligram/litre) S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA NA<	8	Manjhanpur	Ashadha	Ashadha	0	18
10 Ukhaiya Ukhaiya Muratganj Mahgaon Mahgaon Deh Mafi 0 11 Sayd Sarawan Sayd Sarawan 0 12 Sayd Sarawan Sayd Sarawan 0 13 Samaspur Samaspur 0 14 Newada Basuhar Basuhar 0 15 Sarsawan Danpur Danpur 0 16 Purab Sharira Purab Sharira 0 11 18 Kokhraj Kokhraj Uperhar 0 11 19 Nara Nara 0 11 3. Turbidity (Acceptable Range- 1 to 5 NTU) Name Name Na 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) HHs outside the acceptable/permissible range S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range NA NA <	9		Ukhaiya Khas	Ukhaiya Khas	0	19
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14 Newada Basuhar Basuhar Basuhar 0 14 15 Sarsawan Danpur Danpur Danpur 0 14 16 Purab Sharira Purab Sharira Purab Sharira 0 33 16 Purab Sharira Purab Sharira 0 33 17 Sirathu Afzalpur Wari Afzalpur Wari 0 14 18 Kokhraj Kokhraj Uperhar 0 14 19 Nara Nara 0 14 3. Turbidity (Acceptable Range- 1 to 5 NTU) Nara 0 14 S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA NA S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range NA			Sayd Sarawan		0	18
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16 Purab Sharira Purab Sharira 0 3 17 Sirathu Afzalpur Wari Afzalpur Wari 0 11 18 Kokhraj Kokhraj Uperhar 0 11 19 Nara Nara 0 11 3. Turbidity (Acceptable Range-1 to 5 NTU) 0 11 S.No. Block Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA 4. Total hardness (Acceptable Range- 200 to 600 Milligram/litre) HHs outside the acceptable/permissible range S.No. Block Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA S.No. Block Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA S.No. Block Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA NA <tr< td=""><td>14</td><td>Newada</td><td>Basuhar</td><td>Basuhar</td><td>0</td><td>18</td></tr<>	14	Newada	Basuhar	Basuhar	0	18
17SirathuAfzalpur WariAfzalpur Wari01118KokhrajKokhraj Uperhar01119NaraNara0113.Turbidity (Acceptable Range-1 to 5 NTU)NameNameName011S.No.Block NamePanchayat NameVillagesHHs outside the acceptable/permissible rangeNANANANANANA4.Total hardness (Acceptable Range- 200 to 600 Milligram/litre)HHs outside the acceptable/permissible rangeS.No.Block NamePanchayat NameVillagesHHs outside the acceptable/permissible range	15	Sarsawan		Danpur	0	18
18 Kokhraj Kokhraj Uperhar 0 11 19 Nara Nara 0 11 19 Nara Nara 0 11 3. Turbidity (Acceptable Range-1 to 5 NTU) 0 11 S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA 4. Total hardness (Acceptable Range- 200 to 600 Milligram/litre) HHs outside the acceptable/permissible range HHs outside the acceptable/permissible S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible NA NA NA NA NA NA S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible S.No.<	16		Purab Sharira	Purab Sharira	0	37
19 Nara Nara 0 14 3. Turbidity (Acceptable Range-1 to 5 NTU) HHs outside the acceptable/permissible range S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA 4. Total hardness (Acceptable Range- 200 to 600 Milligram/litre) HHs outside the acceptable/permissible range S.No. Block Name Panchayat NA Villages HHs outside the acceptable/permissible range NA NA NA NA NA NA S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range S.No. Block Name Panchayat NA NA NA NA S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range NA NA NA NA NA S.No. Block Name Panchayat Villages HHs outside the acceptable/permissible range S.No. Block Name Panchayat NA NA NA S.No. Block Name Panchayat Na NA	17	Sirathu	Afzalpur Wari	Afzalpur Wari	0	18
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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 NA 5. Total alkalinity (Acceptable Range- 200 to 600 Milligram/litre) HHs outside the acceptable/permissible range S.No. Block Name Panchayat NA NA NA NA NA NA S.No. Block Name Panchayat Name Villages NA NA NA NA S.No. Block Name Panchayat NA NA S.No. Block NA Panchayat NA NA S.No. Block NA NA NA S.No. Block Name Panchayat NA NA S.No. Block Name Panchayat NA NA	S.No.			Villages		rmissible
S.No.Block NamePanchayat NameVillagesHHs outside the acceptable/permissible rangeNANANANANA5.Total alkalinity (Acceptable Range- 200 to 600 Milligram/litre)HHs outside the acceptable/permissible rangeS.No.Block NamePanchayat NameVillagesNANANANAANANANAS.No.Block NamePanchayat NANAS.No.Block NamePanchayat NameVillagesS.No.Block NamePanchayat NameVillagesHHs outside the acceptable/permissible rangeHHs outside the acceptable/permissible range	NA	NA	NA	NA	NA	
S.No.Block NamePanchayat NameVillagesHHs outside the acceptable/permissible rangeNANANANANA5.Total alkalinity (Acceptable Range- 200 to 600 Milligram/litre)HHs outside the acceptable/permissible rangeS.No.Block NamePanchayat NameVillagesNANANANAANANANAS.No.Block NamePanchayat NANAS.No.Block NamePanchayat NameVillagesS.No.Block NamePanchayat NameVillagesHHs outside the acceptable/permissible rangeHHs outside the acceptable/permissible range	4. To	tal hardness (Acceptable Range	- 200 to 600 Milligra	am/litre)	
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) HHs outside the acceptable/permissible range S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range HHs outside the acceptable/permissible range		Block	Panchayat		HHs outside the acceptable/perm	nissible
S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range NA NA NA NA NA 6. CHoride (Acceptable Range- 250 to 1000 Milligram/litre) HHs outside the acceptable/permissible range S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	NA	NA	NA	NA	NA	
S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range NA NA NA NA NA 6. CHoride (Acceptable Range- 250 to 1000 Milligram/litre) HHs outside the acceptable/permissible range S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	5. Total alkalinity (Acceptable Range- 200 to 600 Milligram/litre)					
6. Chloride (Acceptable Range- 250 to 1000 Milligram/litre) S.No. Block Name Name Villages HHs outside the acceptable/permissible range	S.No.		-	Villages		nissible
S.No. Block Panchayat Villages HHs outside the acceptable/permissible range	NA NA NA NA					
S.NO. Name Name Villages range	6. Ch	loride (Accep	table Range- 250 to	o 1000 Milligram/lit	re)	
		Block	Panchayat		HHs outside the acceptable/perm	nissible
	NA	NA	NA	NA	NA	



Table I	Table No. 8: Quality parameters dissatisfied at village level						
7. An	nmonia (Acce	ptable Range- 0.5 M	/lilligram/litre)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range			
NA	NA	NA	NA	NA			
8. Iro	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. Nitr	ate (Acceptab	le Range- 1 Milligra	am/litre)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range			
NA	NA	NA	NA	NA			
10. Su	Iphate (Accep	table Range- 200 t	o 400 Milligram/litre	e(
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range			
NA	NA	NA	NA	NA			
11. To	tal 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. Ba	cteriological	test (Presence)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range			
NA	NA	NA	NA	NA			
13. Flu	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. Ar	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			

