

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



District Report: Gomati, Tripura Survey Duration: March to April 2022

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## Abbreviations

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



## Glossary

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

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

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

Parameters for potable water tested in the survey				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.	xv. Bacteriological test for Total coliform		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	Tripura	Gomati
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last	100	100
7 days (%)	100	100
Fully functional (%)	41	64
Partially functional (%)	57	35
Non-functional (%)	2	1
Quantity of water received by households		
Adequate quantity (>55 LPCD) (%)	96	99
Partially adequate quantity (> 40 LPCD - < 55 LPCD) (%)	3	1
Inadequate quantity (<40 LPCD) (%)	1	0
Regularity of water received by households		
Fully Regular Supply (as per schedule) (%)	94	98
Partially Regular Supply (not as per schedule) (%)	4	1
Irregular Supply (less than 9 months' supply) (%)	2	1
Potable (Quality) water received by households		
Potable (%)	44	66
Non-potable (%)	56	34
Residual Chlorine (RCL) detected with in permissible limits (%)	41	33
Household level indicators	_	

Household level indicators		
Households receiving water supply daily-7 days a week (%)	99	100
Daily HH requirement of water being met by FHTC (%)	76	92
Households reported FHTC as a primary source of drinking water (%)	62	76
Households purifying water before drinking (%)	84	99
Households paying water service delivery charges (%)	3	0
Households having coping mechanisms during scarcity (%)	48	20
Households aware of grievance redressal mechanism for reporting	89	88
problems with FHTC (%)	09	00
Households reported incidence of water-borne diseases in the last year (%)	1	0
Households reported a reduction in time and effort in collecting water (%)	78	98
Overall user satisfaction at the household level		
Regularity (%)	83	92
Overall quality (%)	62	79



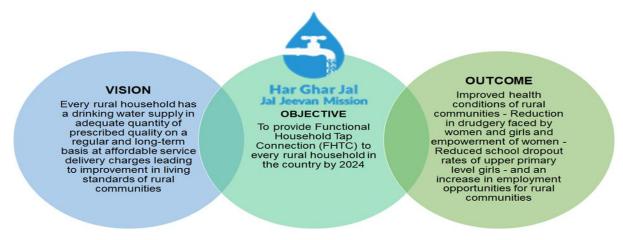
Indicators	Tripura	Gomati
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	56	38
Villages with groundwater resource (%)	26	3
Villages having groundwater recharge structure <sup>1</sup> (%)	2	0
Water supply and storage status in villages		
Average no. of times water is supplied in a day	1	1
Villages having OHT/ Sump for storage of water (%)	9	0
Water quality monitoring and surveillance in the villages		
Villages with Field Test Kits (%)	2	0
Villages in which bacteriological test was done in last 1 year by VWSC/ Pani Samiti (%)	5	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 (%)	12	0
Villages in which VWSC/ Pani Samiti is responsible for Operation & Maintenance of PWS schemes (%)	1	0
Villages in which persons are trained to use Field Test Kits (%)	5	0
Villages in which signages about JJM were observed (%)	7	0
Operation and maintenance at village		
Villages levying water service delivery to households (%)	2	0
Convergence of JJM activities with other schemes in the villages (%)	3	0
Villages having skilled manpower for Operation & Maintenance of PWS schemes (%)	6	0
Community monitoring of water wastage in villages (%)	4	0

 $<sup>^{1}</sup>$  Out of villages who reported to have groundwater source (N\_v=1)

## 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: Gomati

District Gomati of Tripura has a population of 4,59,352. The district has 8 blocks. Out of 173 villages in the district, 32 are SC dominated and 98 are ST dominated villages. The district lies in Eastern Himalayan Region and receives an annual rainfall of About 2000mm.

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

Figure 1: District IMIS Status & Map

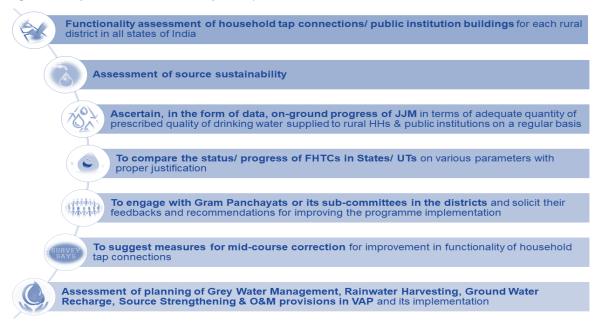
#### **IMIS** status:

- 0 (0% of all) villages are Har Ghar Jal
- 173 (100% of all) villages are Non-Har ghar Jal
- SC/ST dominated district
- Non JE/AES
- Yes- History of water contamination
- 164 (95% of all) villages with PWS more than 20 FHTC



## 2.2. FHTC Assessment Objectives

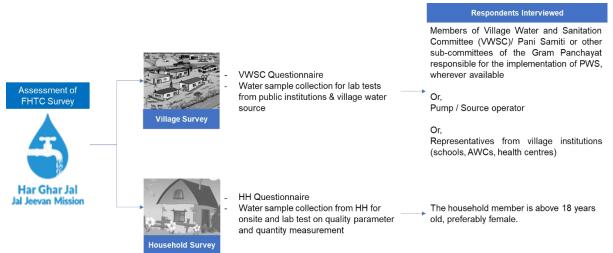
Figure 3: Objectives of Functionality of Tap Connections



## 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

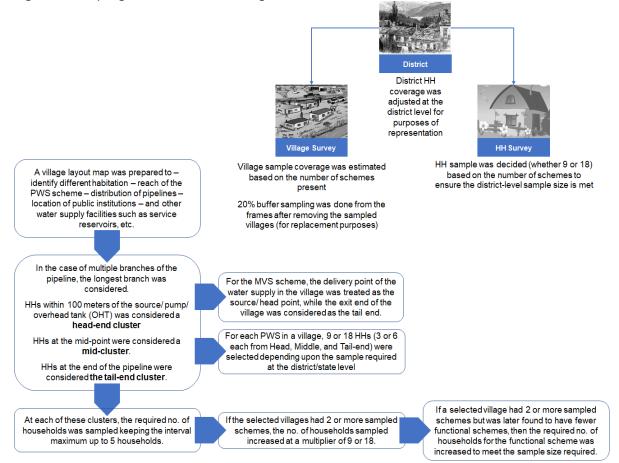
As per the design, all villages having a PWS scheme with 20 or more functional household tap connections were included in the sample frame. The probability proportionate to size (PPS) method was used for village selection in each district. The steps for random selection of villages using PPS are as presented:

Figure 5: Steps for Village Sampling



The key considerations for the village and household sampling were:

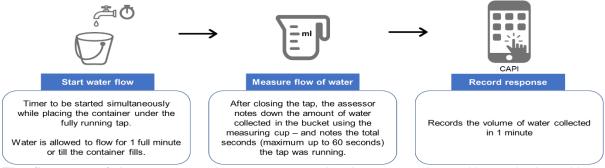
Figure 2: Sampling Considerations – Village & Households



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.

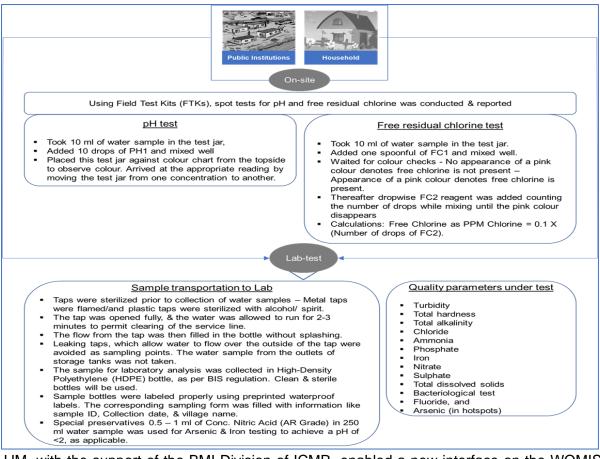
The water flow rate was not measured for village-level public institutions.

### 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:

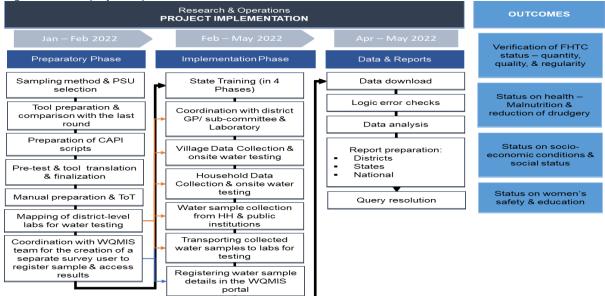


Figure 9: Broad project implementation framework



A total of 6 teams (comprising 6 supervisors, 36 assessors, and 6 water collection assistants) were recruited, trained, and deployed to complete the survey across the state of Tripura. One survey team covered approximately 2 - 3 districts. The state-wise team deployment and fieldwork dates were as presented:

Table No. 1:	State-wise team deployment and data collection start & end dates				
State		Teams deployed	Start date	End date	Total data collection days
Tripura		6 Teams	3/1/2022	4/2/2022	32 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					
	Targetee	d sample		Achieved sam	ple
District	Village	НН	Village	НН	Public Institutions
Gomati	36	900	36	906	7
Tripura	283	7,128	283	7,138	140

# 2.10. Sampled village and household profile

SAMPLED VILLAGES	SAMPLED HOUSEHOLDS
Total no. of villages covered in the district – 36	Total no. of households covered in the district
Percentage of SC dominated villages covered	- 906
in the district is 25% (which is higher than the	<ul> <li>Proportion of General - 20%, SC 29%, ST%</li> </ul>
state average, i.e., 15%)	34, OBC 16% households
Percentage of ST dominated villages covered	• <b>30%</b> of the FHTC connections are under the
in the district is 50% (which is slightly higher	name of a female member
than the state average, i.e., 48%)	Average household size – 5
Higher proportion of pump operator	<ul> <li>&gt;75% positive user experience in 4/5</li> </ul>
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 levelA. Overall functionality\* (in %)

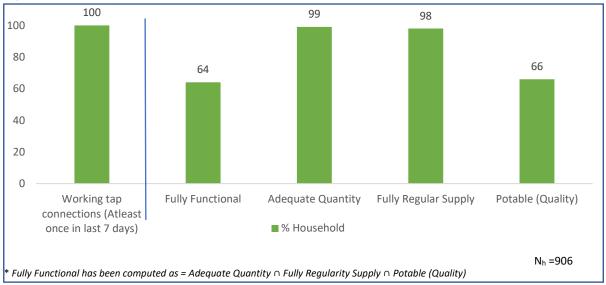


Figure 3: Functionality of HH tap connection

It has been found that 100 percent of the sampled HHs (N=906) had working tap connections (i.e., received water at least once in last 7 days). More than six out of ten (64 percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).



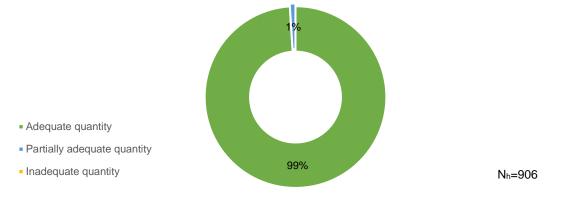
## 3.2. Quantity, Regularity, and Quality of Water

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)

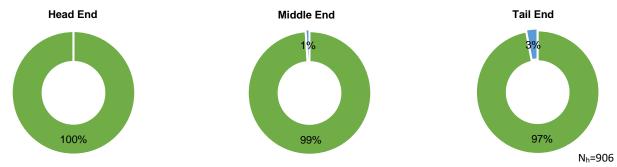
#### 99% HHs reported receiving adequate quantity of water

Figure 4: Quantity of water received by households



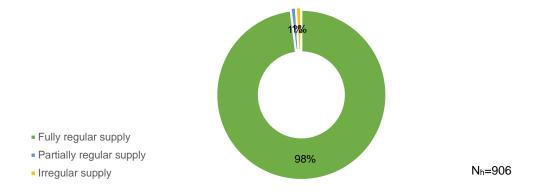
#### Quantity of water received across head, middle, and tail end HHs

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

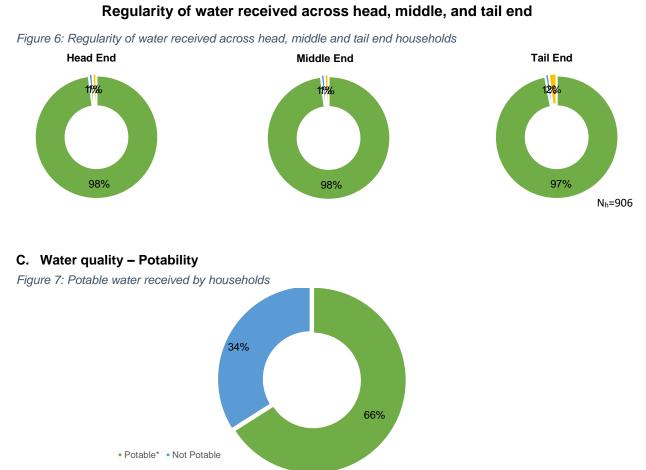


#### B. Regularity of water supply to households

**98% HHs** receive a regular supply of water (as per agreed schedule) *Figure: Regularity of water received by households* 





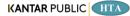


N<sub>h</sub>=906

\*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 pe	rmissible range)

	Water Samples Tested from Public Institutes				
Quality Parameters (NV=36)	Anganwadi Centre	Health Facility	Schools	Others	
pH (on-site)	50	100	100	100	
Turbidity	100	100	100		
Total Hardness	100	100	100		
Total Alkalinity		Not t	ested		
Chloride		Not t	ested		
Ammonia		Not t	ested		
Iron	100	100	100		
Nitrate	Not tested				
Sulphate	Not tested				
Total Dissolved Solids	Not tested				
Bacteriological Test	100 100 100				
Fluoride		No hi	story		
Arsenic		No hi	story		



Quality Parameters	No of samples tested	% Households
pH (on-site)	906	66
Turbidity	888	100
Total Hardness	887	100
Total Alkalinity	Not tes	sted
Chloride	Not tes	sted
Ammonia	Not tes	sted
Iron	886	100
Nitrate	Not tes	sted
Sulphate	Not tes	sted
Total Dissolved Solids	Not tes	sted
Bacteriological Test (Absence)	692	100
Fluoride	No his	tory
Arsenic	No his	tory

 
 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 Gomati district was found in 33% samples. The remaining 67% of the samples had no residual chlorine. 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.

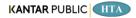
The Residual Chlorine in piped water supply is one of the most important preventive actions to assure quality of water against bacteriological contamination from source to consumption. The presence of residual chlorine within permissible limits is indicator of well-maintained and healthy piped water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

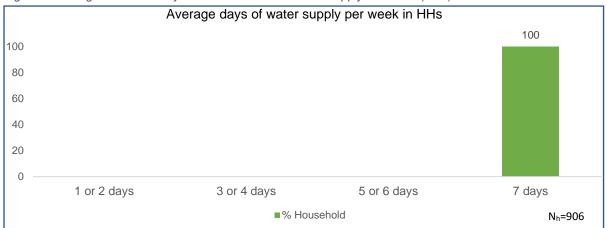
The district lab tested water samples for 4 water quality parameters. 913 water samples were submitted, and 892 water samples were tested, and reports made available. The turnaround time for testing was more than 48 hours in most cases.

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.

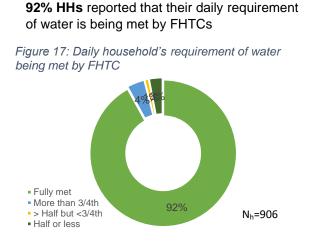


#### 3.3. Average water supply days in a week

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

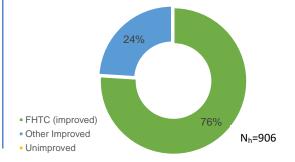


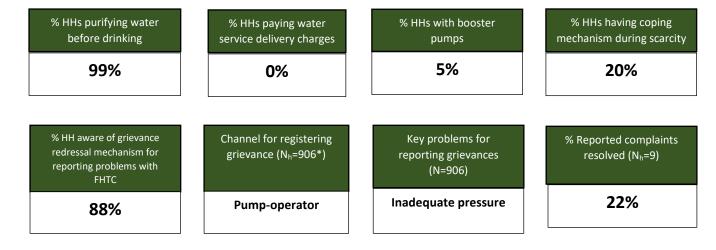
**Fulfilment of requirement** 

# 3.5. Status at HH level (Nh=906)

#### Primary source of drinking water 76% HHs reported HH tap connection as their primary source of drinking water

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





\*HHs who reported complaints in last 1 year

## 3.6. Source sustainability at the village level

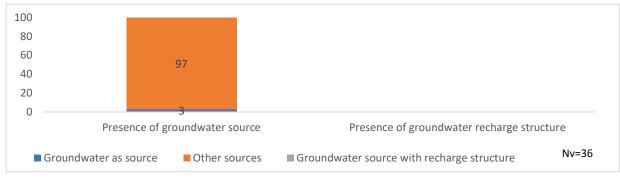
#### Schemes based on surface and ground water

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

#### Villages reported having presence of a groundwater source

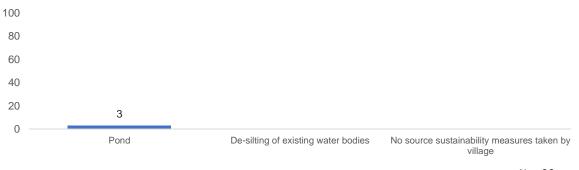
**3% of villages** reported the presence of groundwater sources like improved dug wells and borewells, and none of them were supported by recharging structures.

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



#### The top 3 other source sustainability measure taken by villages

Figure 21: Villages reported having taken other source sustainability measure



% of villages

N<sub>v</sub> = 36



## 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.

## 3.8. Status of JJM

## A. VWSC/Pani Samiti and PWS signage in villages (N<sub>v</sub>=36)

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

#### B. Water supply, storage and operation & maintenance at village level (N<sub>v</sub>=36)

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
1	0%	0%	0%
% Villages having OHT/ Sump	% Villages having faced O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances
0%	0%	PHED	Pipeline leakage

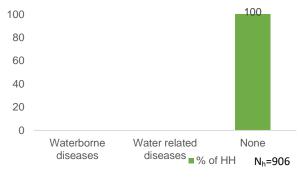


#### 3.9. Perception of HHs on Outcome Indicators

#### a. Health

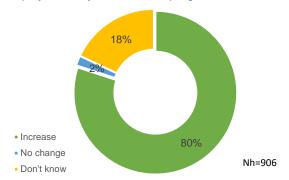
#### Incidence of water borne diseases at HH level in last one year as reported

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

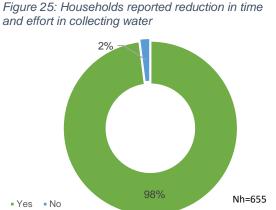


#### b. Economic Income Change in employment days since FHTC programmes/schemes

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



#### c. Drudgery Reduction in time and effort in collecting water







## 3.10. User satisfaction

Table No	Table No. 5:         User satisfaction - more than 75% happy with FHTC services					
S. No.	Parameter (N <sub>h</sub> =906) In %					
1	Regularity 😳 92					
2	Overall quality	79				
3	Colour	77				
4	Taste 😳 76					
5	Odour	() ()	74			

Note:

Base (N<sub>v</sub>)=36 means all villages sampled and covered in Gomati district

Base ( $N_H$ )=906 means all households sampled and covered across the 36 villages in Gomati district Base ( $N_H$ )=906 means all households where female members used to fetch water before HH tap connection



## 4. Annexures

# 4.1. Summary of villages

<u>Table I</u> S.No.	No. 6: Village summa 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	900	942	27	2	1
2	Bazar Para	9	10	1		
3	Gakulpur W Para	27	28	1		
4	No-2 Colony	18	19	1		
5	Chayghariya Para(Barrage Para	18	19	1	1	
6	School Tilla	18	19	1	1	
7	Gamaria Para	27	28	1		
8	Marak Para(Dataram Para	27	28	1		
9	Malum Rai Para	27	28	1		
10	Samatal Kushamara	27	28	1		
11	Taidhum Uttar	27	28	1		
12	Maya Para	27	28	1		
13	Jamjuri Para	27	28	1		
14	Uttar Para	27	28	1		
15	Panchayay Para	18	19	1		
16	Palatana	27	28	1		1
17	Bartilla	27	28	1		
18	Dewan Bari	18	19	1		
19	Kowaimura	27	28	1		
20	Dakshin Para	27	28	0		
21	Co-Operitive	27	28	0		
22	Thakchara	27	28	0		
23	Kurma Para	27	28	1		
24	Sukanta Colony	27	28	1		
25	Nabinrai Bari	27	28	1		
26	Puratan Malbasa Jamatia Para	27	31	1		
27	Jalaya Para	27	30	1		
28	Sijao Mog Para	27	29	0		
29	Birajoy Para	18	19	1		
30	Kewai Uchoi Para	27	28	0		
31	Galiram Para	27	28	1		
32	Kobra Para	27	28	0		
33	Chankhala	27	27	0		
34	Paschim Para	27	30	0		
35	Annabandhu Para	27	28	1		
36	Bangali Para	27	28	0		
37	Tuichan Para	27	20	1		



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

S. No.	Village	Fully Functional* (% HH)	Adequate Quantity (% HH)	Fully Regular Supply (% HH)	Potable (Quality) (% HH)	Working tap connections (%HH)
1	Total	63.7	98.6	98.0	65.7	100.0
2	Bazar Para	55.6	100.0	55.6	100.0	100.0
3	Gakulpur W Para	22.2	100.0	96.3	22.2	100.0
4	No-2 Colony	0.0	100.0	94.4	0.0	100.0
5	Chayghariya Para(Barrage Para	83.3	94.4	100.0	88.9	100.0
6	School Tilla	22.2	100.0	77.8	27.8	100.0
7	Gamaria Para	92.6	96.3	100.0	96.3	100.0
8	Marak Para(Dataram Para	100.0	100.0	100.0	100.0	100.0
9	Malum Rai Para	29.6	100.0	100.0	29.6	100.0
10	Samatal Kushamara	100.0	100.0	100.0	100.0	100.0
11	Taidhum Uttar	88.9	100.0	100.0	88.9	100.0
12	Maya Para	66.7	88.9	100.0	77.8	100.0
13	Jamjuri Para	40.7	100.0	92.6	44.4	100.0
14	Uttar Para	44.4	100.0	100.0	44.4	100.0
15	Panchayay Para	55.6	100.0	100.0	55.6	100.0
16	Palatana	25.9	96.3	85.2	25.9	100.0
17	Bartilla	92.6	92.6	100.0	100.0	100.0
18	Dewan Bari	100.0	100.0	100.0	100.0	100.0
19	Kowaimura	96.3	96.3	100.0	100.0	100.0
20	Dakshin Para	7.4	100.0	100.0	7.4	100.0
21	Co-Operitive	100.0	100.0	100.0	100.0	100.0
22	Thakchara	100.0	100.0	100.0	100.0	100.0
23	Kurma Para	33.3	100.0	100.0	33.3	100.0
24	Sukanta Colony	100.0	100.0	100.0	100.0	100.0
25	Nabinrai Bari	7.4	96.3	100.0	7.4	100.0
26	Puratan Malbasa Jamatia Para	16.7	100.0	96.7	16.7	100.0
27	Jalaya Para	96.6	96.6	100.0	100.0	100.0
28	Sijao Mog Para	85.7	100.0	100.0	85.7	100.0
29	Birajoy Para	55.6	100.0	100.0	55.6	100.0
30	Kewai Uchoi Para	92.6	92.6	100.0	100.0	100.0
31	Galiram Para	85.2	100.0	96.3	88.9	100.0
32	Kobra Para	59.3	100.0	100.0	59.3	100.0
33	Chankhala	11.5	100.0	100.0	11.5	100.0
34	Paschim Para	93.1	100.0	100.0	93.1	100.0
35	Annabandhu Para	100.0	100.0	100.0	100.0	100.0
36	Bangali Para	100.0	100.0	100.0	100.0	100.0
37	Tuichan Para	0.0	100.0	100.0	0.0	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

		Range- 6.5 to 8.5)	lissatisfied at vil	lage level	
	Block	Panchayat			
S.No.	Name	Name	Villages	No. of HHs outside the acceptab	ole range
1	Amarpur	Birgonj	Dakshin Para		25
2		Kurmacherra	Kurma Para		18
3		Paharpur	Nabinrai Bari		25
4		Purba Malbasa	Puratan		25
			Malbasa		
			Jamatia Para		
5	Kakraban	Dhudpuskarini	Uttar Para		15
6		Ichacherra	Panchayay		8
			Para		
7		Jamjuri	Jamjuri Para		15
8		Mirza	Maya Para		6
9		Palatana	Palatana		20
10		Uttar Tulamura	Taidhum		3
			Uttar		
11	Karbook	Chellagong	Galiram Para		3
12		Rambhadra	Birajoy Para		8
13	Matabari	Adipur	Malum Rai		19
			Para		
14		Gamaria	Gamaria Para		1
15		Indiranagar	No-2 Colony		18
16		Maharani	Chayghariya		2
			Para(Barrage		
	<u> </u>		Para		
17	Ompi	Chechua	Kobra Para		11
18		Jambukcherra	Chankhala		23
19		Ompinagar	Paschim Para		2
20		South Ompi	Tuichan Para		26
21	Tepania	Gakulpur	Gakulpur W		21
		Durah a	Para		40
22		Purba	School Tilla		13
2. Fr	oo rosidual o	Dhajanagar hlorine (Acceptabl	 o Pango_ 0.2 to 1	DDM)	
<u>z. m</u>					HHs with
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	no
		5		-	chlorine
1	Amarpur	Birgonj	Dakshin Para	0	18
2	-	Kurmacherra	Kurma Para	0	17
0		Nutan Bazar	Sukanta	0	27
3			Colony		10
4		Paharpur	Nabinrai Bari	0	13
		Purba Malbasa	Puratan	0	6
F			Malbasa		
5	-	Dennemeti	Jamatia Para	0	00
<u>6</u> 7		Rangamati	Co-Operitive	0	26
	Kalurahan	Thakchara	Thakchara	0	27
8	Kakraban	Dhudpuskarini Ichacherra	Uttar Para	0	7
•		Ichacherra	Panchayay	0	15
9	{	lomiuri	Para Iomiuri Doro		47
10	{	Jamjuri	Jamjuri Para	0	17
11		Kusamara	Samatal Kushamara	0	1
11	1	Mirzo			
	{	Mirza	Maya Para	0	2
12	1	Palatana	Palatana Bartilla	0	16 12
13				0	12
		Shilghati		-	
13 14		Shilghati Uttar Tulamura	Taidhum	0	1
13 14 15	Koshoolu	Uttar Tulamura	Taidhum Uttar	0	1
13 14	Karbook		Taidhum	-	



Table N		ality parameters d	issatisfied at vil	lage level	
Table I		Paschim	Kewai Uchoi	0	27
18		Manikya Dewan	Para	8	21
10		Rambhadra	Birajoy Para	0	15
13		West Karbook	Sijao Mog	0	28
20		West Naibuuk	Para	0	20
20		Kowaimura	Kowaimura	0	1.4
21	Matabasi			-	14
00	Matabari	Adipur	Malum Rai	0	8
22			Para		
23		Chandrapur R.F	Bazar Para	0	8
24		Gamaria	Gamaria Para	0	24
25		Indiranagar	No-2 Colony	0	18
		Maharani	Chayghariya	0	18
			Para(Barrage		
26			Para		
		Purba	Marak	0	10
		Mogpuskarini	Para(Dataram		
27		01	Para		
28	Ompi	Chechua	Kobra Para	0	26
29		Jambukcherra	Chankhala	0	25
30		Ompinagar	Paschim Para	0	29
30		South Ompi	Tuichan Para	0	29
31	Silachari	Ghorakappa	Annabandhu	0	26
22	Shachan	Gnorakappa		0	21
32		Cile eh a mi	Para Dangali Dang		~-
33		Silachari	Bangali Para	0	27
	Tepania	Gakulpur	Gakulpur W	0	10
34			Para		
		Purba	School Tilla	0	10
35		Dhajanagar			
3. Tu	rbidity (Acce	ptable Range- 1 to	5 NTU)		
	Block	Panchayat		HHs outside the acceptable/permis	- 11-1
S.No.	Name	Name	Villages	HHS outside the accentable/bermis	sible rande
		Nume	-		
	Karbook	West Karbook	Sijao Mog		4
1			Sijao Mog Para		
-	Karbook	West Karbook	Para		
4. To	Karbook tal hardness	West Karbook (Acceptable Range	Para e- 200 to 600 Mil	ligram/litre)	4
-	Karbook tal hardness Block	West Karbook (Acceptable Range Panchayat	Para		4
4. To S.No.	Karbook tal hardness Block Name	West Karbook (Acceptable Range Panchayat Name	Para e- 200 to 600 Mil Villages	ligram/litre) HHs outside the acceptable/permiss	4
4. To S.No. NA	Karbook tal hardness Block Name NA	West Karbook (Acceptable Range Panchayat Name NA	Para <b>- 200 to 600 Mil</b> Villages NA	ligram/litre) HHs outside the acceptable/permiss	4
4. To S.No. NA	Karbook tal hardness Block Name NA tal alkalinity	West Karbook (Acceptable Range Panchayat Name NA (Acceptable Range	Para <b>- 200 to 600 Mil</b> Villages NA	ligram/litre) HHs outside the acceptable/permiss	4
4. To S.No. NA	Karbook tal hardness Block Name NA tal alkalinity Block	West Karbook (Acceptable Range Panchayat Name NA (Acceptable Range Panchayat	Para <b>- 200 to 600 Mil</b> Villages NA	ligram/litre) HHs outside the acceptable/permiss	4 ible range
4. To S.No. NA 5. To S.No.	Karbook tal hardness Block Name NA tal alkalinity Block Name	West Karbook (Acceptable Range Panchayat Name NA (Acceptable Range Panchayat Name	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages	ligram/litre) HHs outside the acceptable/permiss NA igram/litre) HHs outside the acceptable/permiss	4 ible range
4. To S.No. NA 5. To S.No. NA	Karbook tal hardness Block Name NA tal alkalinity Block Name NA	West Karbook (Acceptable Range Panchayat NA (Acceptable Range Panchayat Name NA	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA	ligram/litre) HHs outside the acceptable/permiss NA igram/litre) HHs outside the acceptable/permiss NA	4 ible range
4. To S.No. NA 5. To S.No. NA	Karbook tal hardness Block Name NA tal alkalinity Block Name NA Ioride (Acce	West Karbook (Acceptable Rango Panchayat Name (Acceptable Rango Panchayat Name NA otable Range- 250	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA	ligram/litre) HHs outside the acceptable/permiss NA igram/litre) HHs outside the acceptable/permiss NA	4 ible range
4. To S.No. NA 5. To S.No. NA 6. Ch	Karbook tal hardness Block Name NA tal alkalinity Block Name NA Iloride (Acce Block	West Karbook (Acceptable Range Panchayat NA (Acceptable Range Panchayat Name NA Dtable Range- 250 Panchayat	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA to 1000 Milligram	ligram/litre) HHs outside the acceptable/permiss NA ligram/litre) HHs outside the acceptable/permiss NA n/litre)	4 ible range ible range
4. To S.No. NA 5. To S.No. NA 6. Ch S.No.	Karbook tal hardness Block Name NA tal alkalinity Block Name NA Iloride (Acce Block Name	West Karbook (Acceptable Range Panchayat NA (Acceptable Range Panchayat NA NA ptable Range- 250 Panchayat Name	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA to 1000 Milligrar Villages	ligram/litre) HHs outside the acceptable/permiss NA igram/litre) HHs outside the acceptable/permiss NA n/litre) HHs outside the acceptable/permiss	4 ible range ible range
4. To S.No. NA 5. To S.No. NA 6. Ch S.No. NA	Karbook tal hardness Block Name NA tal alkalinity Block Name NA Iloride (Acce Block Name NA	West Karbook (Acceptable Range Panchayat NA (Acceptable Range Panchayat NA NA ptable Range- 250 Panchayat NA NA	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA to 1000 Milligrar Villages NA	ligram/litre) HHs outside the acceptable/permiss NA ligram/litre) HHs outside the acceptable/permiss NA n/litre)	4 ible range ible range
4. To S.No. NA 5. To S.No. NA 6. Ch S.No. NA	Karbook tal hardness Block Name NA tal alkalinity Block Name NA Iloride (Acce Block Name NA	West Karbook (Acceptable Range Panchayat NA (Acceptable Range Panchayat NA NA ptable Range- 250 Panchayat NA ptable Range- 0.5	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA to 1000 Milligrar Villages NA	ligram/litre) HHs outside the acceptable/permiss NA igram/litre) HHs outside the acceptable/permiss NA n/litre) HHs outside the acceptable/permiss	4 ible range ible range
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4. To S.No. NA 5. To S.No. NA 6. Ch S.No. NA 7. An S.No. NA 8. Iro S.No. NA	Karbook tal hardness Block Name NA tal alkalinity Block Name NA bloride (Acception NA nmonia (Acception NA name NA name NA name NA name NA name NA name NA name NA name NA name NA NA NA NA NA NA NA NA NA NA	West Karbook (Acceptable Range Panchayat NA (Acceptable Range Panchayat Name NA ptable Range- 250 Panchayat NA ptable Range- 0.5 Panchayat NA e Range- 1 Milligra Panchayat NA e Range- 1 Milligra NA	Para - 200 to 600 Mil Villages NA - 200 to 600 Mill Villages NA to 1000 Milligrar Villages NA Milligram/litre) Villages NA m/litre) Villages NA	ligram/litre) HHs outside the acceptable/permiss NA igram/litre) HHs outside the acceptable/permiss NA n/litre) HHs outside the acceptable/permiss NA	4 ible range ible range ible range
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Table	Table No. 8:         Quality parameters dissatisfied at village level							
NA	NA	NA	NA	NA				
12. Ba	12. Bacteriological test (Presence)							
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range				
NA	NA	NA	NA	NA				
13. Flu	uoride (Acce	ptable Range- 1 to	1.5 Milligram /lit	re)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range				
NA	NA	NA	NA	NA				
14. Ar	senic (in hot	spots) (Acceptable	Range- 0.01 Mil	ligram /litre)				
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range				
NA	NA	NA	NA	NA				

