

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



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

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## Abbreviations

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

#### Glossary

- 1. **Community** Group of people living in one particular area or village/habitation
- 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:

	meters for potable water ed in the survey	Unit	Acceptable Limit	Permissible Limit in the absence of alternative sources
i.	pH (tested on site)	-	6.5 to 8.5	No relaxation
ii.	Free residual chlorine (tested on site)	Mg/litre	0.2	1
iii.	Turbidity	NTU	1	5
iv.	Total hardness	Mg/litre	200	600
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
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			
	bacteria and E. coli or thermotolerant		Shall not be detectable in	n any 100 ml sample
	coliform bacteria		, i	

- 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	Mathura
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last 7 days (%)	59	77
Fully functional (%)	57	20
Partially functional (%)	35	63
Non-functional (%)	8	17
Quantity of water received by households		
Adequate quantity (>55 LPCD) (%)	88	66
Partially adequate quantity (> 40 LPCD - < 55 LPCD) (%)	5	17
Inadequate quantity (<40 LPCD) (%)	7	17
Regularity of water received by households		
Fully Regular Supply (as per schedule) (%)	67	91
Partially Regular Supply (not as per schedule) (%)	25	9
Irregular Supply (less than 9 months' supply) (%)	8	0
Potable (Quality) water received by households		
Potable (%)	92	36
Non-potable (%)	8	64
Residual Chlorine (RCL) detected with in permissible limits (%)	4	1

Household level indicators		
Households receiving water supply daily-7 days a week (%)	88	100
Daily HH requirement of water being met by FHTC (%)	51	67
Households reported FHTC as a primary source of drinking water (%)	24	1
Households purifying water before drinking (%)	6	3
Households paying water service delivery charges (%)	19	55
Households having coping mechanisms during scarcity (%)	35	24
Households aware of grievance redressal mechanism for reporting	34	20
problems with FHTC (%)	J-1	20
Households reported incidence of water-borne diseases in the last year (%)	1	4
Households reported a reduction in time and effort in collecting water (%)	56	70
Overall user satisfaction at the household level		
Regularity (%)	58	60
Overall quality (%)	59	56

Indicators	Uttar Pradesh	Mathura
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	32	20
Villages with groundwater resource (%)	14	86
Villages having groundwater recharge structure <sup>1</sup> (%)	6	52
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 (%)	64	71
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	5
Villages reported to have a mechanism for chlorination (%)	13	0
VWSC/Pani Samiti and PWS signage in villages	13	U
VVISC/I arii Sariiti arid I VVS signage iii Villages  Village reported having presence of VWSC/ Pani Samiti (%)	10	24
Villages in which VWSC/ Pani Samiti is responsible for Operation &	10	24
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	38
Convergence of JJM activities with other schemes in the villages (%)	1	0
Villages having skilled manpower for Operation & Maintenance of PWS	12	5
schemes (%)		
Community monitoring of water wastage in villages (%)	2	0

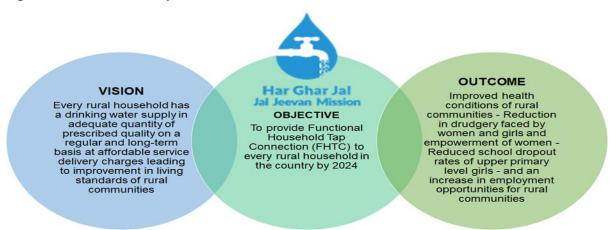
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 $<sup>^{1}</sup>$  Out of villages who reported to have groundwater source (N $_{v}$ =18)

#### 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: Mathura

District Mathura of Uttar Pradesh has a population of 17,65,088. The district has 9 blocks. Out of 673 villages in the district, 59 are SC dominated and None are ST dominated villages. The district lies in Upper Gangetic Plains region and receives an annual rainfall of 492.2mm.

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

Figure 1: District IMIS Status & Map

#### **IMIS** status:

- 28 (4% of all) villages are Har Ghar Jal
- 645 (96% of all) villages are Non-Har ghar Jal
- Non-SC/ST dominated district
- Non JE/AES
- Yes- History of water contamination
- 108 (16% of all) villages with PWS more than 20 FHTC



#### 2.2. FHTC Assessment Objectives

Figure 3: Objectives of Functionality of Tap Connections



#### 2.3. Assessment Methodology

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

Figure 4: Survey Components & Respondents



#### 2.4. Sample Size

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

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

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

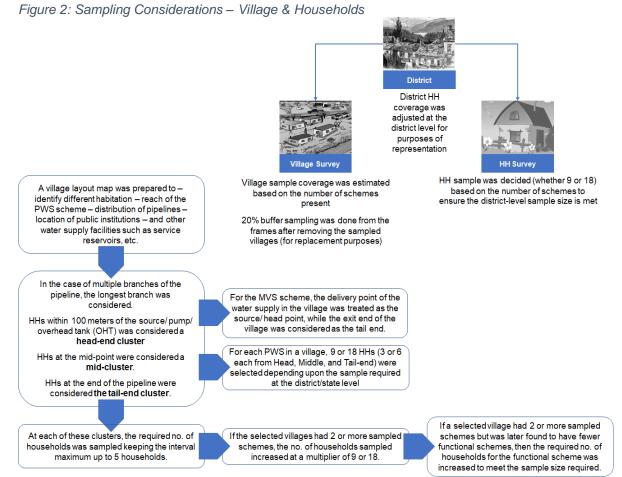
#### 2.5. Sampling Methodology

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

Figure 5: Steps for Village Sampling



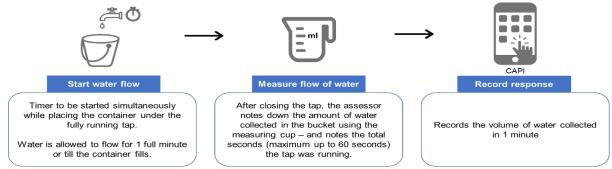
The key considerations for the village and household sampling were:



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

#### 2.6. Methodology for Water Quantity Measurement at Households

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



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

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

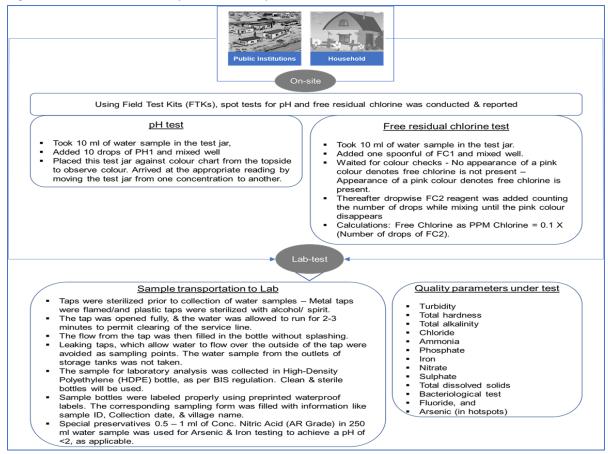
- Assessor first asked and recorded length, breadth, and height.
- Assessor dipped a 5 feet long rod, marked the level of the water table, and calculated the volume – length x breadth x-height of water.
- Next the assessor opened the valve of the connection and allowed the water to flow inside the storage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

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

### 2.7. Methodology for Water Quality Measurement

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

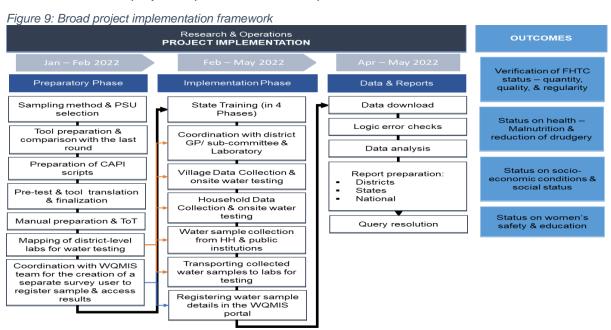
Figure 8: On-site & Laboratory Based Quality Test



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

#### 2.8. Project implementation

An overview of the project implementation is as presented:



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

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

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

#### 2.9. Sample coverage

Table No. 2: S	ample covered				
	Targete	d sample		Achieved sam	ple
District	Village	НН	Village	НН	Public Institutions
Mathura	21	378	21	392	2
Uttar Pradesh	1,321	30,204	1,319	30,723	497

#### 2.10. Sampled village and household profile

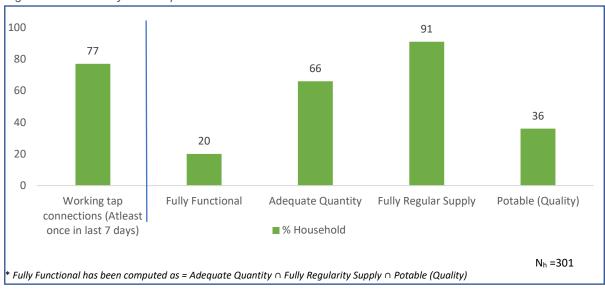
#### SAMPLED VILLAGES **SAMPLED HOUSEHOLDS** Total no. of villages covered in the district - 21 Total no. of households covered in the district Percentage of SC dominated villages covered in the district is 10% (which is lower than the Proportion of General - 35%, SC 28%, ST% 0, OBC 38% households state average, i.e., 18%) Percentage of ST dominated villages covered 21% of the FHTC connections are under the in the district is 0% (which is equal to the state name of a female member average, i.e., 0%) Average household size - 7 Higher proportion of **pump operator** >75% positive user experience in 0/5 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 3: Functionality of HH tap connection



It has been found that 77 percent of the sampled HHs (N=522) had working tap connections (i.e., received water at least once in last 7 days). Two out of ten (20 percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).

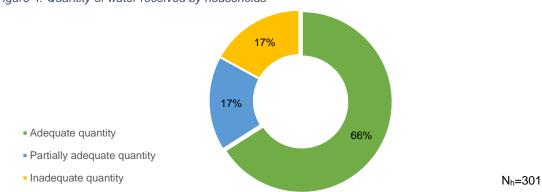
#### 3.2. Quantity, Regularity, and Quality of Water

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)

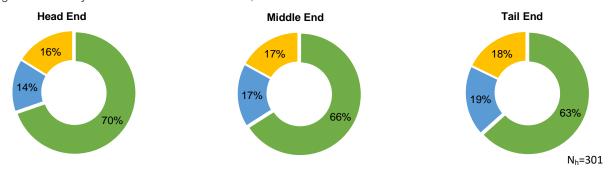
#### 66% HHs reported receiving adequate quantity of water

Figure 4: Quantity of water received by households



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

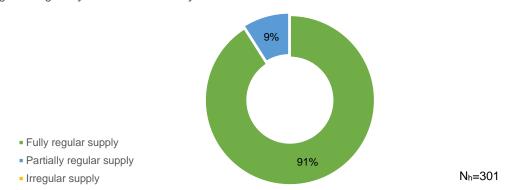
Figure 5: Quantity of water received across head, middle and tail end households



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

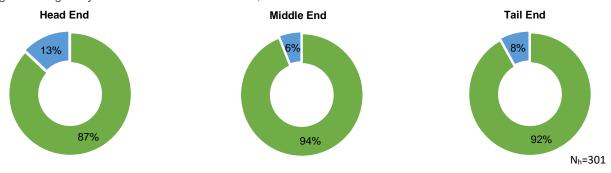
#### **91% HHs** receive a regular supply of water (as per agreed schedule)

Figure: Regularity of water received by households



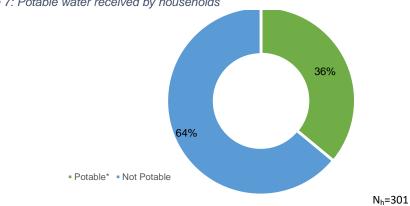
#### Regularity of water received across head, middle, and tail end

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



#### C. Water quality - Potability

Figure 7: Potable water received by households



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

Table No. 3: Village quality parameters reported within permissible range (% sample within permissible range)

•	Water Samples Tested from Public Institutes				
Quality Parameters (NV=21)	Anganwadi Centre	Health Facility	Schools	Others	
pH (on-site)			100		
Turbidity		Not to	ested		
Total Hardness		Not to	ested		
Total Alkalinity		Not to	ested		
Chloride		Not to	ested		
Ammonia	Not tested				
Iron		No h	istory		
Nitrate	Not tested				
Sulphate		Not to	ested		
Total Dissolved Solids	Not tested				
Bacteriological Test	Not tested				
Fluoride	Not tested				
Arsenic	Not tested				

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

(in % sample within permissible range)

Quality Parameters	No of samples tested	% Households		
pH (on-site)	301	100		
Turbidity	299	100		
Total Hardness	266	78		
Total Alkalinity	299	54		
Chloride	280	76		
Ammonia	Not tes	Not tested		
Iron	No hist	tory		
Nitrate	69	68		
Sulphate	37	100		
Total Dissolved Solids	299	75		
Bacteriological Test (Absence)	Not tes	sted		
Fluoride	264	79		
Arsenic	No history			

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

The Residual Chlorine (RC) in the Mathura district was found in 1% samples. The remaining 99% 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.

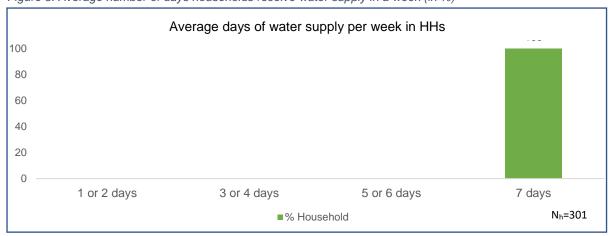
#### **Comment on functioning of District Lab:**

The district lab tested water samples for 8 water quality parameters. 303 water samples were submitted, and 299 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 %)

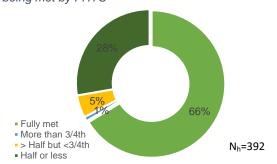


#### 3.4. Household utilization of water for drinking and other activities

#### **Fulfilment of requirement**

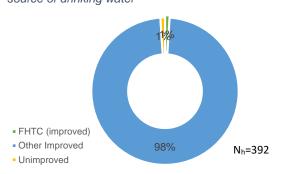
**67% HHs** reported that their daily requirement of water is being met by FHTCs

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

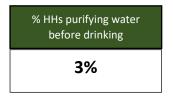


## Primary source of drinking water 1% HHs reported HH tap connection as their primary source of drinking water

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



#### 3.5. Status at HH level (Nh=392)



% HHs paying water service delivery charges

% HHs with booster pumps

% HHs having coping mechanism during scarcity

% HH aware of grievance redressal mechanism for reporting problems with FHTC

Channel for registering grievance (N<sub>h</sub>=392\*)

Pump-operator

reporting grievances (N=392) Pipeline leakage

Key problems for

% Reported complaints resolved (N<sub>h</sub>=1)

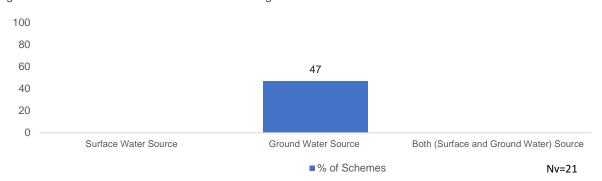
<sup>\*</sup>HHs who reported complaints in last 1 year

#### 3.6. Source sustainability at the village level

#### Schemes based on surface and ground water

47% of schemes are reported to be based on ground water sources.

Figure 19: Schemes based on water source in village

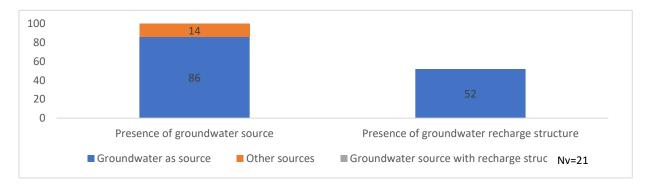


<sup>\*&#</sup>x27;Surface Water Source' is Stream, Spring, Glacier, River, lake, pond etc. and Groundwater Source is open well, borewell, tube well, handpump, spring, etc

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

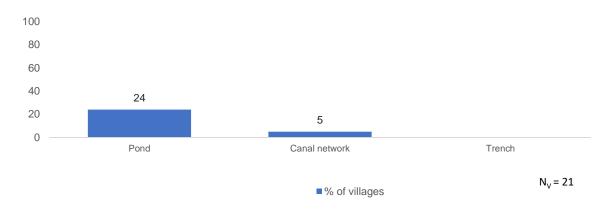
**86% of villages** reported the presence of groundwater sources like improved dug wells and borewells, and 52% were supported by recharging structures.

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



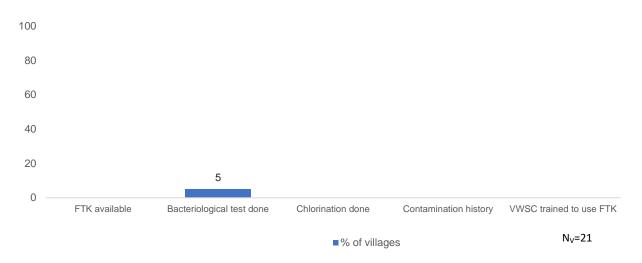
#### The top 3 other source sustainability measure taken by villages

Figure 21: Villages reported having taken other source sustainability measure



## 3.7. Water quality monitoring and surveillance in the villages

Figure 22: Water quality monitoring and surveillance by villages



#### 3.8. Status of JJM

## A. VWSC/Pani Samiti and PWS signage in villages (N<sub>v</sub>=21)

Presence of VWSC/Pani Samiti	VWSC/Pani Samiti responsible for O&M of	% Villages – VWSC/PO trained to use FTKs	% Villages in which signages about JJM was	
24%	PWS Schemes  0%	0%	observed 0%	

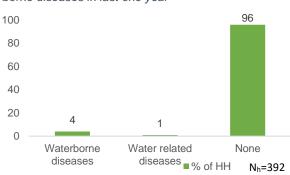
## B. Water supply, storage and operation & maintenance at village level (N<sub>v</sub>=21)

Average no. of supply in a day	% Villages levying water service delivery to HH	% Villages having skilled manpower for O&M for PWS	Community monitoring of water wastage in villages
1	38%	5%	0%
% Villages having OHT/ Sump	% Villages having faced O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances
71%	0%	PHED	Pipeline leakage

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

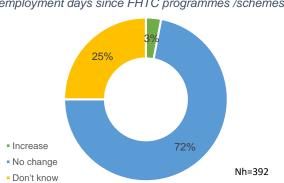
## a. HealthIncidence of water borne diseases atHH level in last one year as reported

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



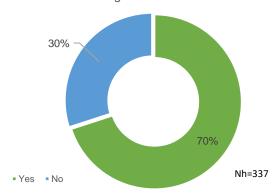
#### b. Economic Income Change in employment days since FHTC programmes/schemes

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



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

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



#### 3.10. User satisfaction

Table No	Table No. 5: User satisfaction - more than 75% happy with FHTC services				
S. No.	Parameter (N <sub>h</sub> =392) In %				
1	Regularity	© °	60		
2	Overall quality	(°)	56		
3	Colour	() o	66		
4	Taste	(°)	41		
5	Odour	000	55		

#### Note:

Base (N<sub>v</sub>)=21 means all villages sampled and covered in Mathura district

Base  $(N_H)$ =392 means all households sampled and covered across the 21 villages in Mathura district Base  $(N_H)$ =392 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 summ	nary				
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	378	413	21		23
2	Unchagaon	18	20	1		2
3	Tumaula	18	19	1		
4	Khaira	18	22	1		1
5	Parkham	18	19	1		1
6	Pasoli	18	19	1		2
7	Semri	18	19	1		
8	Surir Vijaru Bangar	18	20	1		1
9	Bisavli	18	19	1		1
10	Loriha Patti	18	20	1		2
11	Rasulpur	18	20	1		1
12	Ral	18	20	1		3
13	Khamini	18	19	1		1
14	Anganpura	18	19	1		1
15	Barari	18	20	1		
16	Bhahai	18	20	1		1
17	Luhara	18	20	1		1
18	Chharhgaon	18	20	1		1
19	Awerni	18	20	1		1
20	Nagla Mirbulaki	18	19	1		1
21	Selkhera	18	19	1		1
22	Dagheta	18	20	1		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	19.6	66.4	91.0	35.5	100.0	
2	Unchagaon	5.3	15.8	100.0	42.1	100.0	
3	Khaira	33.3	66.7	57.1	100.0	100.0	
4	Parkham	0.0	66.7	100.0	0.0	100.0	
5	Pasoli	0.0	88.9	100.0	0.0	100.0	
6	Bisavli	5.6	66.7	100.0	5.6	100.0	
7	Loriha Patti	0.0	73.7	100.0	0.0	100.0	
8	Rasulpur	57.9	57.9	100.0	100.0	100.0	
9	Ral	0.0	89.5	100.0	0.0	100.0	
10	Khamini	0.0	27.8	44.4	0.0	100.0	
11	Anganpura	0.0	100.0	100.0	0.0	100.0	
12	Barari	73.7	84.2	89.5	100.0	100.0	
13	Bhahai	0.0	73.7	84.2	0.0	100.0	
14	Luhara	0.0	47.4	100.0	0.0	100.0	
15	Chharhgaon	5.3	73.7	89.5	5.3	100.0	
16	Awerni	78.9	78.9	100.0	100.0	100.0	
17	Dagheta	47.4	52.6	94.7	100.0	100.0	

<sup>\*</sup> Fully Functional has been computed as = Adequate Quantity  $\cap$  Fully Regularity Supply  $\cap$  Potable (Quality)

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## 4.3. Villages not meeting the quality parameters

1. pH		lity parameters diss	satisfied at vill	age level	
		Range- 6.5 to 8.5)			
S.No.	Block Name	Panchayat Name	Villages	No. of HHs outside the acceptab	le range
NA	NA	NA	NA	NA	
2. Fre	ee residual ch	orine (Acceptable R	ange- 0.2 to 1	PPM)	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	HHs with no chlorine
1	Baldeo	Awerni	Awerni	0	19
2		Dagheta	Dagheta	0	19
3	Chhata	Khaira	Khaira	0	19
4	Choumunha	Parkham	Parkham	0	18
5		Pasoli	Pasoli	0	18
6	Govardhan	Loriha Patti	Loriha Patti	0	19
7		Rasulpur	Rasulpur	0	19
8	Mathura	Aganpura	Anganpura	0	18
9		Khamini	Khamini	0	18
10		Ral	Ral	0	19
11	Nandgaon	Unchagaon	Unchagaon	0	19
12	Pharah	Barari	Barari	0	19
13		Chharhgaon	Chharhgaon	0	19
14		Luhara	Luhara	0	19
15		Bhahai	Bhahai	0	19
16	Raya	Bisavli	Bisavli	0	18
3. Tu	rbidity (Accep	table Range- 1 to 5	NTU)		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permis	sible range
NA	NA	NA	NA	NA	
4. To	tal hardness (	Acceptable Range-	200 to 600 Mill	igram/litre)	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	sible range
<b>S.No.</b>		Panchayat Name Parkham	Villages Parkham		sible range
	Name				
1	Name	Parkham	Parkham		18
1 2	Name Choumunha	Parkham Pasoli	Parkham Pasoli		18
1 2 3 4	Name Choumunha Govardhan Mathura	Parkham Pasoli Loriha Patti	Parkham Pasoli Loriha Patti Khamini	HHs outside the acceptable/permiss	18 4 19
1 2 3 4	Name Choumunha Govardhan Mathura	Parkham Pasoli Loriha Patti Khamini	Parkham Pasoli Loriha Patti Khamini	HHs outside the acceptable/permiss	18 4 19 18
1 2 3 4 5. To S.No.	Name Choumunha Govardhan Mathura tal alkalinity (A	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli	HHs outside the acceptable/permiss	18 4 19 18
1 2 3 4 5. To S.No.	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages	HHs outside the acceptable/permiss	18 4 19 18
1 2 3 4 5. To S.No.	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham	HHs outside the acceptable/permiss	18 4 19 18 sible range
1 2 3 4 5. To S.No.	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli	HHs outside the acceptable/permiss	18 4 19 18 sible range
1 2 3 4 5. To S.No. 1 2 3	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan	Parkham Pasoli Loriha Patti Khamini Acceptable Range- 2 Panchayat Name Parkham Pasoli Loriha Patti	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti	HHs outside the acceptable/permiss	18 4 19 18 sible range 15 1
1 2 3 4 5. To S.No. 1 2 3 4	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon	HHs outside the acceptable/permiss	18 4 19 18 sible range 15 1 19
1 2 3 4 5. To S.No. 1 2 3 4 5	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral	HHs outside the acceptable/permiss	18 4 19 18 sible range 15 1 19 18
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara	HHs outside the acceptable/permiss	18 4 19 18 sible range 15 1 19 18 19
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingram/litre	18 4 19 18 sible range 15 1 19 18 19 11
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingram/litre	18 4 19 18 sible range 15 1 19 18 19 11 18
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingram/litre	18 4 19 18 sible range 15 1 19 18 19 11 18
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7 8 9 6. Ch	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai table Range- 250 to	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingle	18 4 19 18 sible range 15 1 19 18 19 11 18
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7 8 9 6. Ch S.No.	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah  Iloride (Accept Block Name	Parkham Pasoli Loriha Patti Khamini Acceptable Range- 2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai table Range- 250 to Panchayat Name	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai 1000 Milligram Villages	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingle	18 4 19 18 sible range  15 1 19 18 19 18 19 11 18 19 19 19 sible range
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7 8 9 6. Ch S.No. 1	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah  Iloride (Accept Block Name	Parkham Pasoli Loriha Patti Khamini Acceptable Range- 2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai table Range- 250 to Panchayat Name	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai 1000 Milligram Villages Parkham	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingle	18 4 19 18 sible range 15 1 19 18 19 11 18 19 11 18 19 19
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7 8 9 6. Ch S.No. 1 2	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah  Block Name Choumunha	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai table Range- 250 to Panchayat Name Parkham Pasoli	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai 1000 Milligram Villages Parkham Pasoli	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingle	18 4 19 18 sible range 15 1 19 18 19 11 18 19 11 18 19 19 11 18 19 19 19 11 18 19 19 19
1 2 3 4 5. To S.No. 1 2 3 4 5 6 7 8 9 6. Ch S.No. 1 2 3 4 5 5 6 5 7 5 1 2 5 7 6 7 7 8 9 9 6. Ch S.No. 1 2 3 3 4 5 5 6 7 7 8 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7	Name Choumunha Govardhan Mathura tal alkalinity (A Block Name Choumunha Govardhan Mathura Nandgaon Pharah  Block Name Choumunha Govardhan Mathura	Parkham Pasoli Loriha Patti Khamini Acceptable Range-2 Panchayat Name Parkham Pasoli Loriha Patti Aganpura Ral Unchagaon Chharhgaon Luhara Bhahai table Range- 250 to Panchayat Name Parkham Pasoli Loriha Patti	Parkham Pasoli Loriha Patti Khamini 200 to 600 Milli Villages Parkham Pasoli Loriha Patti Anganpura Ral Unchagaon Chharhgaon Luhara Bhahai 1000 Milligram Villages Parkham Pasoli Loriha Patti Anganpura Khamini	HHs outside the acceptable/permissingram/litre)  HHs outside the acceptable/permissingle	18 4 19 18 sible range 15 1 19 18 19 19 11 18 19 19 11 18 19 19 19 11 19 19 19 19



S.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           NA         NA         NA         NA           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           1         Choumunha         Pasoli         Pasoli         Pasoli         4           2         Mathura         Aganpura         Anganpura         3         3           3         Mathura         Aganpura         Anganpura         3         3           1.0         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         NA           NA         NA         NA         NA         NA           11. Total dissolved solids (Acceptable Range- 500 to 2000 Milligram/litre)         S.No.         Block Name         Panchayat Name	Table	Table No. 8: Quality parameters dissatisfied at village level							
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           S.No.         Block Aname         Panchayat Name         Villages         HHs outside the acceptable/permissible range           1         Choumunha         Pasoli         Pasoli         4           2         Mathura         Aganpura         Anganpura         3           3         Khamini         Khamini         12           Kanini         Khamini         12           S.No.         Block Aname         Panchayat Name         Villages         HHs outside the acceptable/permissible range           NA         NA         NA         NA         NA           NA         NA         NA         NA         NA           NA         NA         NA         NA         NA           N.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           1         Choumunha         Pasoli         Pasoli         18           2         Govardhan         Loriha Patti         Loriha Patti         Loriha Patti	S.No.		Panchayat Name	Villages	HHs outside the acceptable/permissible range				
S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range NA					NA				
Name	8. Irc								
9. Nitrate (Acceptable Range-1 Milligram/litre)           S.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           1         Choumunha         Pasoli         Pasoli         4           2         Mathura         Aganpura         Anganpura         3           4         Mathura         Aganpura         Anganpura         3           10. Sulphate (Acceptable Range- 200 to 400 Milligram/litre)         Ral         3           5.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           5.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           5.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           1         Choumunha         Pasoli         18         18           2         Govardhan         Loriha Patti         Loriha Patti         19           3         Mathura         Khamini         Khamini         18           4         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           5.No.         Block Name </td <td>S.No.</td> <td></td> <td>Panchayat Name</td> <td>Villages</td> <td>HHs outside the acceptable/permissible range</td>	S.No.		Panchayat Name	Villages	HHs outside the acceptable/permissible range				
S.No.   Block Name   Pasoli   Pasoli   Aganpura   Aganp					NA				
S.No.         Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           1         Choumunha         Pasoli         Pasoli         4           2         Mathura         Aganpura         Anganpura         3           4         Aganpura         Khamini         12           4         Ral         Ral         3           10. Sulphate (Acceptable Range- 200 to 400 Milligram/litre)         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)         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           S.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           1 Choumunha         Pasoli         18         19         18           2 Govardhan         Loriha Patti         Loriha Patti         19         18         19           3 Mathura         Khamini         Khamini         NA         NA         NA         NA           5.No.         Block Name         Panchayat Name	9. Nitr	9. Nitrate (Acceptable Range- 1 Milligram/litre)							
Aganpura	S.No.		Panchayat Name	Villages	HHs outside the acceptable/permissible range				
S.No.   Block Name   Panchayat Name   Villages   HHs outside the acceptable/permissible range   1   1   1   1   1   1   1   1   1	1	Choumunha	Pasoli	Pasoli	4				
Ral   Ral   Ral   3	2	Mathura	Aganpura	Anganpura	3				
10. Sulphate (Acceptable Range- 200 to 400 Milligram/litre)  S.No. Block Name	3	]	Khamini	Khamini	12				
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         1 Choumunha       Pasoli       Pasoli       18         2 Govardhan       Loriha Patti       Loriha Patti       19         3 Mathura       Khamini       Khamini       18         4 Ral       Ral       19       19         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         1 Govardhan       Loriha Patti       Loriha Patti       19         2 Mathura       Khamini       Khamini       19         3 Pharah       Chharhgaon       Chharhgaon       Chharhgaon       18         4 Raya       Bisavli       Bisavli									
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         1 Choumunha       Pasoli       Pasoli       18         2 Govardhan       Loriha Patti       Loriha Patti       19         3 Mathura       Khamini       Khamini       18         4 Ral       Ral       19       19         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         1 Govardhan       Loriha Patti       Loriha Patti       19         2 Mathura       Khamini       Khamini       19         3 Pharah       Chharhgaon       Chharhgaon       Chharhgaon       18         4 Raya       Bisavli       Bisavli	10. Sı	10. Sulphate (Acceptable Range- 200 to 400 Milligram/litre)							
11. Total dissolved solids (Acceptable Range- 500 to 2000 Milligram/litre)         S.No.       Block Name       Panchayat Name       Villages       HHs outside the acceptable/permissible range         1       Choumunha       Pasoli       18         2       Govardhan       Loriha Patti       Loriha Patti       19         3       Mathura       Khamini       Khamini       18         4       Ral       Ral       19         12. Bacteriological test (Presence)       S.No.       Block Name       Panchayat Name       Villages       HHs outside the acceptable/permissible range         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         1       Govardhan       Loriha Patti       Loriha Patti       19         2       Mathura       Khamini       Khamini       1         3       Pharah       Chharhgaon       Chharhgaon       18         4       Raya       Bisavli       Bisavli       17         14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)       HHs outside the acceptable/permissible range         S		Block							
S.No. Block Name Pasoli Pasoli 18  2 Govardhan Loriha Patti Loriha Patti 19  3 Mathura Khamini Ral Ral 19  12. Bacteriological test (Presence)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range  NA NA NA NA NA NA  13. Fluoride (Acceptable Range- 1 to 1.5 Milligram /litre)  S.No. Davardhan Loriha Patti Loriha Patti 19  A Govardhan Loriha Patti Loriha Patti 19  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range  1 Govardhan Loriha Patti Loriha Patti 19  2 Mathura Khamini Khamini 11  3 Pharah Chharhgaon Chharhgaon 18  4 Raya Bisavli Bisavli 17  14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range  HHs outside the acceptable/permissible range	NA	NA	NA	NA	NA				
S.No. Name Panchayat Name Villages HHs outside the acceptable/permissible range  1 Choumunha Pasoli Pasoli 18 2 Govardhan Loriha Patti Loriha Patti 19 3 Mathura Khamini Khamini 18 4 Ral Ral 19  12. Bacteriological test (Presence)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range  NA NA NA 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  1 Govardhan Loriha Patti Loriha Patti 19 2 Mathura Khamini Khamini 11 3 Pharah Chharhgaon Chharhgaon 18 4 Raya Bisavli Bisavli 17  14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	11. To	tal dissolved	solids (Acceptable F	Range- 500 to 2	2000 Milligram/litre)				
2         Govardhan         Loriha Patti         Loriha Patti         19           3         Mathura         Khamini         Khamini         18           4         Ral         Ral         19           12. Bacteriological test (Presence)         S.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range           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           1         Govardhan         Loriha Patti         Loriha Patti         19           2         Mathura         Khamini         Khamini         1           3         Pharah         Chharhgaon         Chharhgaon         18           4         Raya         Bisavli         Bisavli         17           14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)         HHs outside the acceptable/permissible range           S.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range	S.No.		Panchayat Name	Villages	HHs outside the acceptable/permissible range				
Mathura   Khamini   Khamini   18   19   12. Bacteriological test (Presence)	1	Choumunha	Pasoli	Pasoli	18				
Ral   Ral   19	2	Govardhan	Loriha Patti	Loriha Patti	19				
12. Bacteriological test (Presence)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range  NA NA 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  1 Govardhan Loriha Patti Loriha Patti 19  2 Mathura Khamini Khamini 1  3 Pharah Chharhgaon Chharhgaon 18  4 Raya Bisavli Bisavli 17  14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range  HHs outside the acceptable/permissible range	3	Mathura	Khamini	Khamini	18				
S.No. Block Name NA	4		Ral	Ral	19				
NA N	12. Ba		est (Presence)						
13. Fluoride (Acceptable Range- 1 to 1.5 Milligram /litre)       S.No.     Block Name     Panchayat Name     Villages     HHs outside the acceptable/permissible range       1     Govardhan     Loriha Patti     19       2     Mathura     Khamini     Khamini       3     Pharah     Chharhgaon     Chharhgaon       4     Raya     Bisavli     Bisavli       14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)       S.No.     Block Name     Panchayat Name     Villages     HHs outside the acceptable/permissible range	S.No.		Panchayat Name	Villages	HHs outside the acceptable/permissible range				
S.No.     Block Name     Panchayat Name     Villages     HHs outside the acceptable/permissible range       1     Govardhan     Loriha Patti     19       2     Mathura     Khamini     11       3     Pharah     Chharhgaon     Chharhgaon       4     Raya     Bisavli     Bisavli       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				
1 Govardhan Loriha Patti Loriha Patti 19 2 Mathura Khamini Khamini 1 3 Pharah Chharhgaon Chharhgaon 18 4 Raya Bisavli Bisavli 17  14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	13. Flo	uoride (Accept	able Range- 1 to 1.5	13. Fluoride (Acceptable Range- 1 to 1.5 Milligram /litre)					
2         Mathura         Khamini         1           3         Pharah         Chharhgaon         Chharhgaon         18           4         Raya         Bisavli         Bisavli         17           14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)           S.No.         Block Name         Panchayat Name         Villages         HHs outside the acceptable/permissible range				,					
3 Pharah Chharhgaon Chharhgaon 18 4 Raya Bisavli Bisavli 17  14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	S.No.		Panchayat Name		HHs outside the acceptable/permissible range				
4 Raya Bisavli Bisavli 17  14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range		Name		Villages					
14. Arsenic (in hotspots) (Acceptable Range- 0.01 Milligram /litre)  S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	1	Name Govardhan	Loriha Patti	Villages Loriha Patti	19				
S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	1 2	Name Govardhan Mathura	Loriha Patti Khamini	Villages Loriha Patti Khamini	19 1				
S.No. Block Name Panchayat Name Villages HHs outside the acceptable/permissible range	1 2 3 4	Name Govardhan Mathura Pharah Raya	Loriha Patti Khamini Chharhgaon Bisavli	Villages  Loriha Patti Khamini Chharhgaon Bisavli	19 1 1 18 17				
NA NA NA NA	1 2 3 4	Name Govardhan Mathura Pharah Raya	Loriha Patti Khamini Chharhgaon Bisavli	Villages  Loriha Patti Khamini Chharhgaon Bisavli	19 1 1 18 17				
	1 2 3 4 14. Ar	Name Govardhan Mathura Pharah Raya senic (in hots	Loriha Patti Khamini Chharhgaon Bisavli	Villages  Loriha Patti Khamini Chharhgaon Bisavli ange- 0.01 Mill	19 1 18 17 igram /litre)				