

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



District Report: Kulgam, Jammu & Kashmir 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		Unit	Acceptable Limit	Permissible Limit in the absence of alternative sources
i.	pH (tested on site)	-	6.5 to 8.5	No relaxation
ii.	Free residual chlorine (tested on site)	Mg/litre	0.2	1
iii.	Turbidity	NTU	1	5
iv.	Total hardness	Mg/litre	200	600
٧.	Total alkalinity	Mg/litre	200	600
vi.	Chloride	Mg/litre	250	1000
vii.	Ammonia	Mg/litre	0.5	No relaxation
viii.	Phosphate	Mg/litre	0.3	1
ix.	Iron (in hotspots only)	Mg/litre	1	No relaxation
Х.	Nitrate	Mg/litre	45	No relaxation
xi.	Sulphate	Mg/litre	200	400
xii.	Total dissolved solids	Mg/litre	500	2000



xiii.	Fluoride	Mg/litre	1	1.5	
xiv.	Arsenic (in hotspots only)	Mg/litre	0.01	No relaxation	
XV.	xv. Bacteriological test for Total coliform		Shall not be detectable in	n any 100 ml sample	
	coliform bacteria				

- 12. **Sampling** Selection of a subset of individuals from within a statistical population to estimate water service delivery among the population. In the current study, households have been sampled to estimate the representation of the village and subsequently of the district as well as of the state.
- 13. Types of schemes: Following are the piped water supply schemes that were assessed
  - a. Mini-solar based piped water supply scheme in isolated/tribal hamlets
  - b. Single Village Scheme (SVS) in villages having adequate groundwater that needs treatment
  - c. Single village scheme (having adequate groundwater/ spring water/ local or surface water source of prescribed Quality)
  - Retrofitting of ongoing schemes taken up under erstwhile NRDWP for the last mile connectivity/ retrofitting of completed rural water supply schemes to make it JJM compliant
  - e. Multi-village PWS scheme with water grids/ regional water supply schemes
- 14. Village Action Plan (VAP) Plan prepared by Gram Panchayat and/ or its sub-committee, i.e., VWSC/ Paani Samiti/ User Group, etc. based on baseline survey, resource mapping and felt needs of the village community to provide FHTC to every rural household, treat the generated greywater and plan its reuse, undertake surveillance activities, etc. VAP also indicates the fund requirement and timelines for completion of work under the Mission and will be approved by the Gram Sabha. Irrespective of the source of funding, all drinking water-related works in the village are taken up based on the VAP.
- 15. **Source Sustainability** includes measures such as aquifer recharge, rainwater harvesting, increased storage capacity of water bodies, reservoirs, de-silting, etc. improve the lifespan of water supply systems
- 16. **Har Ghar Jal (HGJ)** An administrative unit wherein all HHs are provided with water supply through FHTCs is called "Har Ghar Jal".
- 17. **Public Institutions** The public institutions in the survey include Aanganwadi Centre (AWC), Health Facilities, Schools, Gram Panchayat, and government buildings.
- 18. Working tap connection A tap connection supplied water at least one day in the week, preceding of survey
- 19. **Functional Scheme –** A scheme is said to be functional if it was reported to be working for all 12 months in a year.



### 1. Factsheet

Table 1: District level factsheet

Indicators	Jammu & Kashmir	Kulgam
Functionality status of FHTC at households		
Households (HHs) which received water through FHTC at least once in last 7 days (%)	97	100
Fully functional (%)	53	38
Partially functional (%)	36	54
Non-functional (%)	11	8
Quantity of water received by households		
Adequate quantity (>55 LPCD) (%)	84	95
Partially adequate quantity (> 40 LPCD - < 55 LPCD) (%)	6	1
Inadequate quantity (<40 LPCD) (%)	10	3
Regularity of water received by households		
Fully Regular Supply (as per schedule) (%)	70	51
Partially Regular Supply (not as per schedule) (%)	18	9
Irregular Supply (less than 9 months' supply) (%)	12	40
Potable (Quality) water received by households		
Potable (%)	86	82
Non-potable (%)	14	18
Residual Chlorine (RCL) detected with in permissible limits (%)	14	2

81	100
94	95
75	97
78	98
70	88
62	81
90	100
2	1
85	72
80	98
82	98
	94 75 78 70 62 90 2 85 80



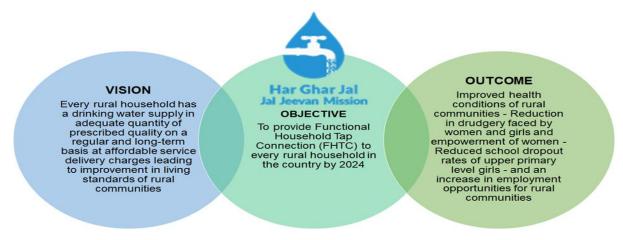
Indicators	Jammu & Kashmir	Kulgam
Village level indicators (based on village questionnaire)		
Schemes reported to be functional (%)	40	12
Villages with groundwater resource (%)	24	28
Villages having groundwater recharge structure <sup>1</sup> (%)	8	11
Water supply and storage status in villages		
Average no. of times water is supplied in a day	2	3
Villages having OHT/ Sump for storage of water (%)	58	78
Water quality monitoring and surveillance in the villages		
Villages with Field Test Kits (%)	24	28
Villages in which bacteriological test was done in last 1 year by VWSC/ Pani Samiti (%)	22	50
Villages reported to have a mechanism for chlorination (%)	19	11
VWSC/Pani Samiti and PWS signage in villages		
Village reported having presence of VWSC/ Pani Samiti (%)	25	17
Villages in which VWSC/ Pani Samiti is responsible for Operation & Maintenance of PWS schemes (%)	4	0
Villages in which persons are trained to use Field Test Kits (%)	18	28
Villages in which signages about JJM were observed (%)	4	22
Operation and maintenance at village		
Villages levying water service delivery to households (%)	57	72
Convergence of JJM activities with other schemes in the villages (%)	8	11
Villages having skilled manpower for Operation & Maintenance of PWS schemes (%)	17	11
Community monitoring of water wastage in villages (%)	7	6

 $<sup>^{1}</sup>$  Out of villages who reported to have groundwater source (N\_v=5)

## 2. Context

Jal Jeevan Mission (JJM) was launched on the 15th of August 2019 with the objective to provide functional household tap connections (FHTCs) to all rural households.

Figure 1: Har Ghar Jal - Objective, Vision, & Outcome



In accordance with the overall objectives as specified in the Operational Guidelines for the implementation of the NJJM, 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: Kulgam

District Kulgam of Jammu & Kashmir has a population of 4,48,835. The district has 11 blocks. Out of 280 villages in the district, none are SC dominated and 7 are ST dominated villages. The district lies in Western Himalayan Region and receives an annual rainfall of 900.1mm.

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

Figure 2: District IMIS Status & Map

#### IMIS status:

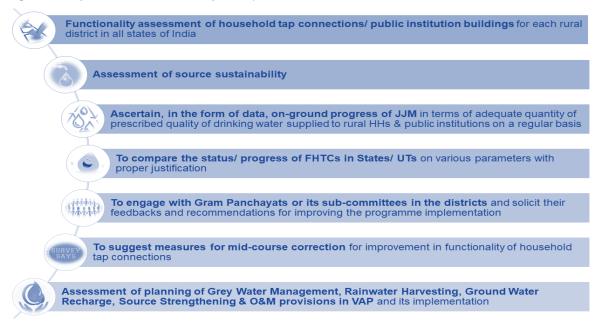
- 18 (6% of all) villages are Har Ghar Jal
- 262 (94% of all) villages are Non-Har ghar Jal
- Non-SC/ST dominated district
- Non JE/AES
- No- History of water contamination
- 248 (89% of all) villages with PWS more than 20 FHTC





## 2.2. FHTC Assessment Objectives

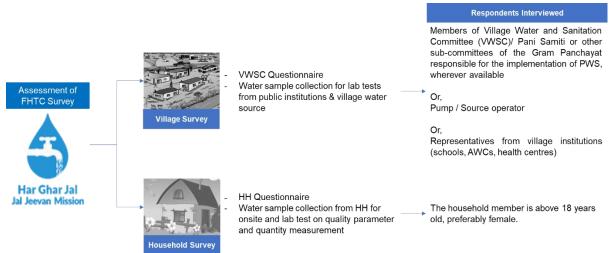
Figure 3: Objectives of Functionality of Tap Connections



### 2.3. Assessment Methodology

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

Figure 4: Survey Components & Respondents



## 2.4. Sample Size

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

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



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

#### 2.5. Sampling Methodology

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

Figure 5: Steps for Village Sampling



The key considerations for the village and household sampling were:

Figure 6: Sampling Considerations – Village & Households



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

# 2.6. Methodology for Water Quantity Measurement at Households

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



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

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

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

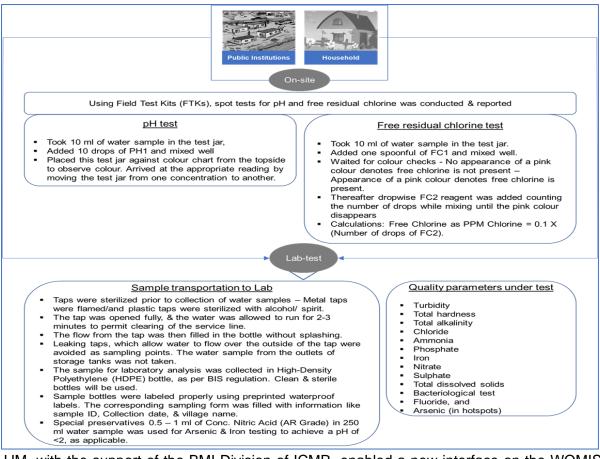
The water flow rate was not measured for village-level public institutions.

#### 2.7. Methodology for Water Quality Measurement

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



#### Figure 8: On-site & Laboratory Based Quality Test



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

#### 2.8. Project implementation

An overview of the project implementation is as presented:

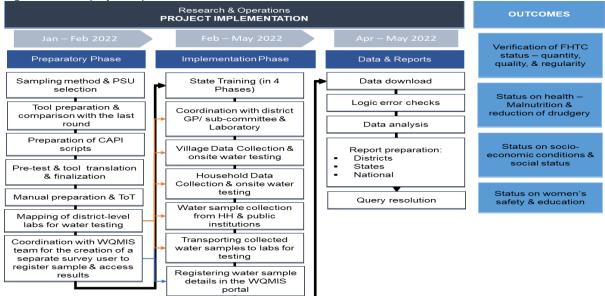


Figure 9: Broad project implementation framework



A total of 10 teams (comprising 10 supervisors, 60 assessors, and 10 water collection assistants) were recruited, trained, and deployed to complete the survey across the UT of Jammu & Kashmir. One survey team covered approximately 2 - 3 districts. The state-wise team deployment and fieldwork dates were as presented:

Table No. 1: State-wise tear	State-wise team deployment and data collection start & end dates				
State	Teams deployed	Start date	End date	Total data collection days	
Jammu & Kashmir	10 Teams	3/10/2022	4/15/2022	35 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				
	Targete	d sample		Achieved sam	ple
District	Village	НН	Village	НН	Public Institutions
Kulgam	18	378	18	420	81
Jammu & Kashmir	359	7,641	359	7,828	674

## 2.10. Sampled village and household profile

SAMPLED VILLAGES	SAMPLED HOUSEHOLDS
<ul> <li>Total no. of villages covered in the district – 18</li> <li>Percentage of SC dominated villages covered</li> </ul>	<ul> <li>Total no. of households covered in the district</li> <li>420</li> </ul>
in the district is 0% (which is lower than the	<ul> <li>Proportion of General - 100%, SC 0%, ST% 0,</li> </ul>
state average, i.e., 8%)	OBC 0% households
Percentage of ST dominated villages covered	• 6% of the FHTC connections are under the
in the district is 0% (which is lower than the	name of a female member
state average, i.e., 13%)	<ul> <li>Average household size – 7</li> </ul>
Higher proportion of <b>pump operator</b>	<ul> <li>&gt;75% positive user experience in 5/5</li> </ul>
interviewed at the village level	measures
No the district reported to have any historical	
incidence of water contamination	



## 3. Findings

# 3.1. Functionality status of FHTC at household level A. Overall functionality\* (in %)

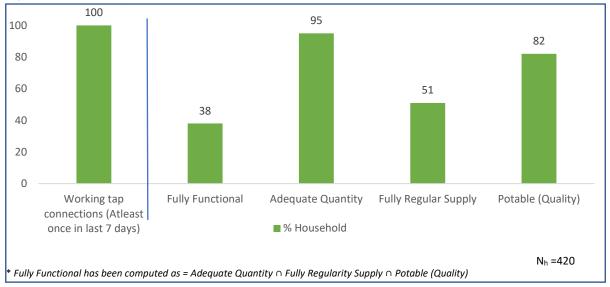


Figure 10: Functionality of HH tap connection

It has been found that 100 percent of the sampled HHs (N=420) had working tap connections (i.e., received water at least once in last 7 days). More than one out of three (38 percent) HHs had fully functional tap connection (i.e., HHs receiving adequate quantity of prescribed quality of water on a regular basis).



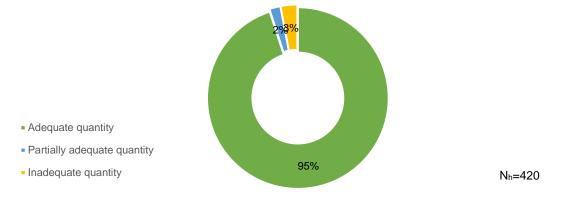
## 3.2. Quantity, Regularity, and Quality of Water

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)

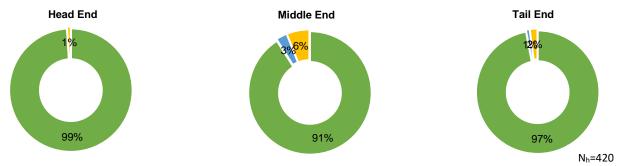
95% HHs reported receiving adequate quantity of water

Figure 11: Quantity of water received by households



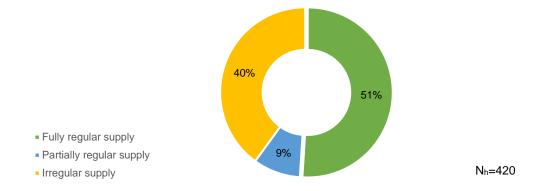
#### Quantity of water received across head, middle, and tail end HHs

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



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

**51% HHs** receive a regular supply of water (as per agreed schedule) *Figure: Regularity of water received by households* 





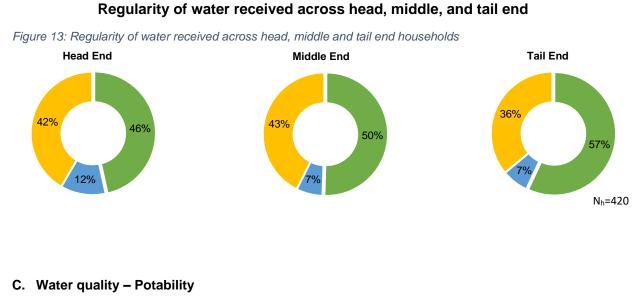
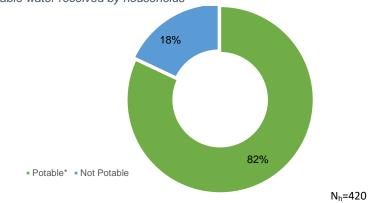


Figure 14: Potable water received by households



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

within permissible range)				
	Water Samples Tested from Public Institutes			
Quality Parameters (NV=18)	Anganwadi Centre	Health Facility	Schools	Others
pH (on-site)	94	92	86	100
Turbidity	100	100	100	
Total Hardness	100	100	100	
Total Alkalinity	100		100	
Chloride	100		100	
Ammonia		Not te	ested	
Iron		No hi	story	
Nitrate	100	100	100	
Sulphate		Not te	ested	
Total Dissolved Solids	Not tested			
Bacteriological Test	100	100	100	100
Fluoride	No history			
Arsenic	No history			

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

# KANTAR PUBLIC HTA

Quality Parameters	No of samples tested	% Households		
pH (on-site)	420	82		
Turbidity	205	100		
Total Hardness	84	100		
Total Alkalinity	54	100		
Chloride	51	100		
Ammonia	Not tested			
Iron	No history			
Nitrate	106	100		
Sulphate	Not tes	ted		
Total Dissolved Solids	8	100		
Bacteriological Test(Presence/Absence)	230 100			
Fluoride	No hist	ory		
Arsenic	No hist	ory		

 
 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 Kulgam district was found in 2% samples. Also, 5% samples were having RC outside range and 93% samples had no RC. It may be mentioned that 100% of water samples passed the bacteriological contamination test but to assure the protection against bacteriological contamination, addition of RC is must in PWS system.

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

It is advised that behavioural change communication campaigns on appropriate dosage of residual chlorine is held in all villages and monitoring system for chlorine dosing is established. The FTK must have residual chlorine testing facility for effective WQM&S.

#### Comment on functioning of District Lab:

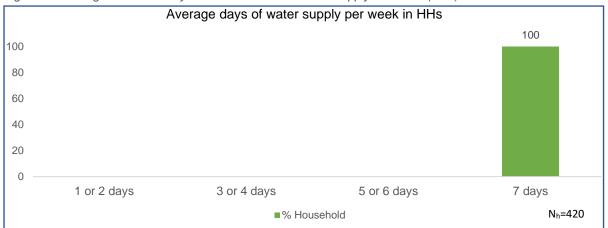
The district lab tested water samples for 7 water quality parameters. 501 water samples were submitted, and 409 water samples were tested, and reports made available. The turnaround time for testing was more than 48 hours in most cases.

The labs did not have any issue with testing the number of water samples submitted nor had any issues with human resource, reagents etc however only concern was the lab did not receive any sample of weekends and public holidays

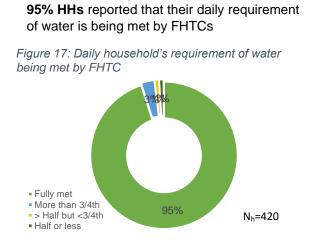


#### 3.3. Average water supply days in a week

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



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

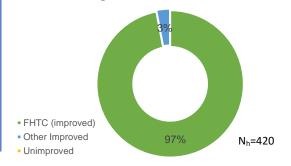


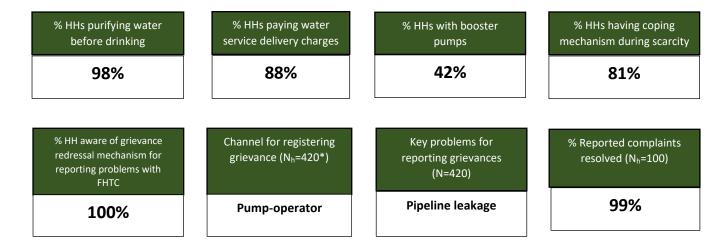
**Fulfilment of requirement** 

# 3.5. Status at HH level (Nh=420)

#### Primary source of drinking water 97% 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

38% of schemes are reported to be based on surface water and 19% ground water.

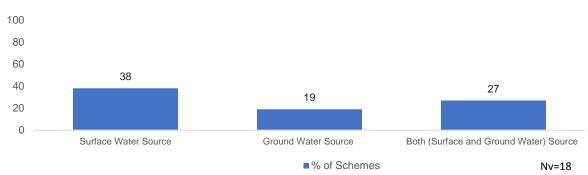
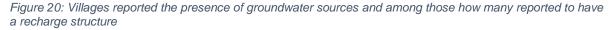


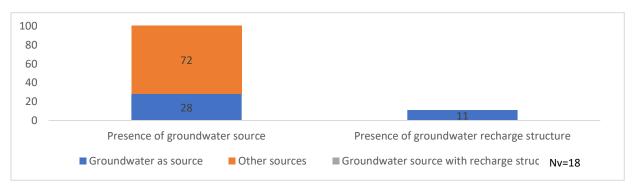
Figure 19: Schemes based on water source in village

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

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

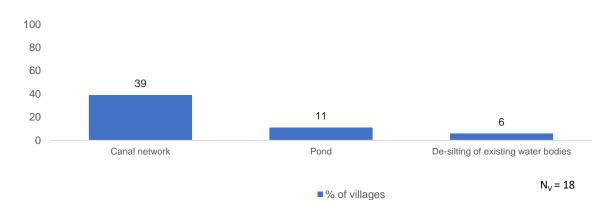
**28% of villages** reported the presence of groundwater sources like improved dug wells and borewells, and 11% were supported by recharging structures.

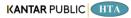




#### The top 3 other source sustainability measure taken by villages

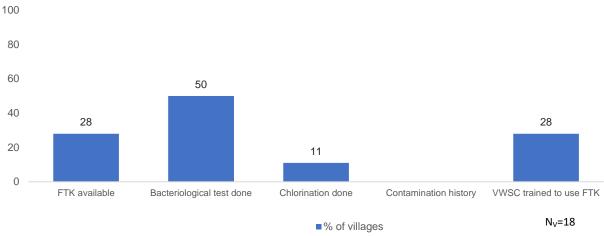
Figure 21: Villages reported having taken other source sustainability measure





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

Figure 22: Water quality monitoring and surveillance by villages



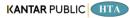
### 3.8. Status of JJM

## A. VWSC/Pani Samiti and PWS signage in villages (Nv=18)

Presence of VWSC/Pani	VWSC/Pani Samiti	% Villages – VWSC/PO	% Villages in which signages about JJM was
Samiti	responsible for O&M of	trained to use FTKs	
17%	17% PWS Schemes 0%		observed 22%

## B. Water supply, storage and operation & maintenance at village level (Nv=18)

Average no. of supply in a day	% Villages levying water service delivery to HH% Villages having skilled manpower for O&M for PWS72%11%		Community monitoring of water wastage in villages 6%
% Villages having OHT/ Sump	% Villages having faced O&M challenges	Primary points for reporting grievances	Key problems for reporting grievances
78% 28%		PHED	Inadequate pressure

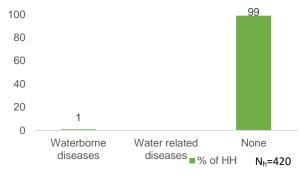


#### 3.9. Perception of HHs on Outcome Indicators

#### a. Health

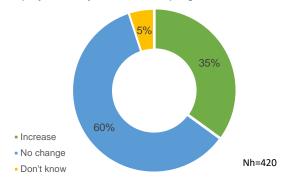
# Incidence of water borne diseases at HH level in last one year as reported

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

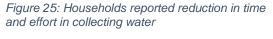


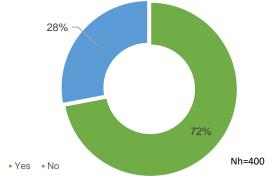
#### b. Economic Income Change in employment days since FHTC programmes/schemes

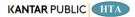
Figure 24: Household reported a change in employment days since FHTC programmes /schemes



#### 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> =420) In %					
1	Regularity	$\odot$	98			
2	Overall quality		98			
3	Colour		98			
4	Taste		98			
5	Odour	$\odot$	99			

Note:

Base  $(N_v)$ =18 means all villages sampled and covered in Kulgam district

Base ( $N_H$ )=420 means all households sampled and covered across the 18 villages in Kulgam district Base ( $N_H$ )=420 means all households where female members used to fetch water before HH tap connection



#### 4. Annexures

### 4.1. Summary of villages

Table No. 6: Village summary						
S.No.	Name of sample village	Sample HHs	Actual sample HHs (achieved)	No. of scheme	No of source of surface water	No of source of Ground water
1	Total	378	438	26	18	6
2	Watoo Partly	27	28	0		
3	Dano Kandi Marg	36	41	1	1	
4	Qasba Khul	18	17	1	1	
5	Largo Rambhaha	27	28	2		
6	Y.B. Pora	18	22	1	1	
7	Waltengo	18	23	1		
8	Chuian	27	31	2		
9	Nowpora Tulipora	18	24	1		
10	Kojar	18	20	1	1	1
11	Challan	27	34	1	1	
12	Nillow	18	22	1		1
13	Shalipora	18	20	4	4	1
14	Mohammad Pora	18	22	1		
15	Sarsana	18	20	1		1
16	Khi Jogipora	18	20	4	5	2
17	Lammer	18	22	1		
18	Yamrach B	18	22	1		
19	Herpora	18	22	2	4	

## 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	38.1	95.5	51.2	82.1	100.0	
2	Watoo Partly	22.2	100.0	22.2	96.3	100.0	
3	Dano Kandi Marg	47.5	100.0	52.5	92.5	100.0	
4	Qasba Khul	62.5	100.0	93.8	68.8	100.0	
5	Largo Rambhaha	22.2	100.0	22.2	96.3	100.0	
6	Y.B. Pora	71.4	71.4	95.2	100.0	100.0	
7	Waltengo	68.2	100.0	86.4	68.2	100.0	
8	Chuian	53.3	83.3	70.0	93.3	100.0	
9	Nowpora Tulipora	13.0	100.0	13.0	100.0	100.0	
10	Kojar	68.4	100.0	78.9	89.5	100.0	
11	Challan	39.4	100.0	42.4	93.9	100.0	
12	Nillow	52.4	100.0	57.1	95.2	100.0	
13	Shalipora	10.5	100.0	57.9	21.1	100.0	
14	Mohammad Pora	0.0	100.0	19.0	33.3	100.0	
15	Sarsana	47.4	68.4	84.2	73.7	100.0	
16	Khi Jogipora	26.3	94.7	26.3	89.5	100.0	
17	Lammer	52.4	95.2	57.1	100.0	100.0	
18	Yamrach B	14.3	100.0	14.3	100.0	100.0	
19	Herpora	14.3	100.0	57.1	28.6	100.0	

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



# 4.3. Villages not meeting the quality parameters

Table N		ality parameters dis	satisfied at vi	lage level	
1. pH		Range- 6.5 to 8.5)	1		
S.No.	Block Name	Panchayat Name	Villages	No. of HHs outside the acceptab	le range
1	Behibagh	Khi Jogipora	Khi		2
			Jogipora		
2		Tantripora	Sarsana		5
3	Devsar	Chiyen	Chuian		2
4	Dhpora	Khull A	Qasba Khul		5
5	Dk Marg	D.K. Marg A	Dano Kandi		3
	-		Marg		
6	Frisal	Kojar	Kojar		2
7	Kulgam	Challan	Challan		2
8		Mohammadpora	Mohammad		14
		Tazipora	Pora		
9		Shalipora	Shalipora		15
10	Kund	Waltengo A	Waltengo		7
11	Manzgam	Watoo B	Watoo Partly		1
12	Pombay	Nillow	Nillow		1
13	Qaimoh	Ashmuji B	Herpora		15
		hlorine (Acceptable I		1 PPM)	
					HHs with
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range	no chlorine
	Behibagh	Khi Jogipora	Khi	0	19
1	Dormbagh	run oogipola	Jogipora		10
2		Tantripora	Sarsana	0	19
3		Yamrach-B	Yamrach B	0	20
4	Devsar	Chiyen	Chuian	0	30
5	Devisar	Y.B. Pora	Y.B. Pora	0	21
6	Dhpora	Khull A	Qasba Khul	0	16
0	Dhpora Dk Marg	D.K. Marg A	Dano Kandi	0	37
7	DK Mary	D.R. Mary A	Marg	0	57
8	Frisal	Kojar	Kojar	0	19
9	Kulgam	Challan	Challan	0	30
3	Ruigan	Mohammadpora	Mohammad	0	20
10		Tazipora	Pora	0	20
11		Shalipora	Shalipora	0	10
12	Kund	Waltengo A	Waltengo	0	19 22
12		Watengo A Watoo B	Watengo	0	22
13	Manzgam		Partly	0	27
14	Pahloo	Lammer A	Lammer	21	0
	Pombay	Largoo	Largo	0	26
15	. cbay		Rambhaha		20
16		Nillow	Nillow	0	21
17	Qaimoh	Ashmuji B	Herpora	0	21
	Quinon	Nowpora Tulipora	Nowpora	0	23
18			Tulipora		20
	rbidity (Acce	ptable Range- 1 to 5		·	
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permis	sible range
NA	NA	NA	NA	NA	
	tal hardness	(Acceptable Range-	200 to 600 Mi		
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permiss	ible range
NA	NA	NA	NA	NA	
		(Acceptable Range-			
S.No.	Block	Panchayat Name	Villages	HHs outside the acceptable/permiss	ible range
5.INO.	Name				
NA	Name NA	NA	NA	NA	



Table I	No. 8: Qu	ality parameters dis	satisfied at vi	llage level					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					
7. An									
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					
8. Iro	on (Acceptabl	e Range- 1 Milligram	/litre)						
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					
9. Nitr	ate (Acceptal	ole Range- 1 Milligra	m/litre)						
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					
10. Su	Iphate (Acce	ptable Range- 200 to	400 Milligram	n/litre)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					
11. To	tal dissolved	solids (Acceptable I	Range- 500 to	2000 Milligram/litre)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					
12. Ba		test (Presence)							
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
1	Pombay	Largoo	Largo Rambhaha	1					
13. Flu	uoride (Accep	table 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		pots) (Acceptable R	ange- 0.01 Mi	lligram /litre)					
S.No.	Block Name	Panchayat Name	Villages	HHs outside the acceptable/permissible range					
NA	NA	NA	NA	NA					

