

# Assessment of functionality status of household tap connections in rural areas (2020-21)

**State report** 

**West Bengal** 



Submitted to:
National Jal Jeevan Mission
Department of Drinking Water and Sanitation
Ministry of Jal Shakti

Report prepared by: NIELSEN (INDIA) PRIVATE LIMITED

# Functionality Assessment Survey 2020-21- West Bengal

## **Table of Contents**

1.	Introduction	
	Objectives of the study	
3.	Approach and Methodology	2
4.	Key Findings	3
5.	Conclusions	7
Anı	nexure 1: List of village with no scheme/defunct schemes/under construction	g
Anı	nexure 2: List of villages with schemes supplying only through tap stand/standpost	11
Anı	nexure 3: List of villages where 15 FHTCs were not found	18
Anı	nexure 4: Indicative proportion of functional tap connections by districts	18
Anı	nexure 5: List of villages where samples failed for given quality parameter	18

#### 1. Introduction

Announced in 2019, the Jal Jeevan Mission – Har Ghar Jal (JJM – HGJ) is implemented by Department of Drinking Water and Sanitation (DDWS), Ministry of Jal Shakti in partnership with States/ UTs. JJM aims to provide a Functional Household Tap Connection (FHTC) to every rural home in the country by 2024. A household tap connection is said to be functional when the tap water supply is of adequate quantity (minimum 55 lpcd) and prescribed quality (as per BIS:10500) on regular and long-term basis. Further, JJM seeks to promote holistic management of local water sources and not just provide tap water connections.

The DDWS had engaged Nielsen (India) Private Limited to undertake 'Functionality Assessment' of household tap connections. The assessment covered household tap connections in 6,992 villages across 704 districts from 31 States/ UTs. The survey was undertaken in November – December 2020.

#### 2. Objectives of the study

The main objectives were an assessment of Functionality of Household Tap Connections (FHTCs) under JJM on various parameters; ascertaining, in the form of data, on-ground progress of JJM in terms of adequate quantity of prescribed quality of drinking water supplied to rural households on regular basis; and engaging with Gram Panchayats and/ or its sub-committees of the sample villages and soliciting their feedbacks and recommendations for improving the programme implementation; and to suggest measures for mid-course correction for improvement in functionality of household tap connections.

### 3. Approach and Methodology

The approach followed was to assess the functionality of household tap connections (within premises) and in-village drinking water supply infrastructure. The selection of sample villages was from the JJM-Integrated Management Information System (IMIS) data-base of villages having at least 15 household tap connections. In each sample village, the largest PWS scheme was sampled. The survey was planned as in-person Computer Aided Personal Interview (CAPI) survey, and included an on-ground assessment of the functionality of sample PWS schemes and tap connections attached to the same. The survey included measurement of the quantity of water received at the household level through the tap connection, as well as water testing to check whether the quality of the drinking water is as per the BIS standards, using Field Test Kits (FTKs) and H<sub>2</sub>S vials. The study also collected supply side information, including assessment of the quantity of water supplied by the scheme, operation and maintenance arrangements, availability and functionality of scheme level infrastructure and the aspects related to source and system sustainability.

A sample of 10 villages from every district in the State were selected following probability proportionate to size (PPS) systematic random sampling method ensuring due representation of SC/ SC majority villages as well as quality-affected villages. In each selected village, households for the survey were selected at head end, middle and tail end of the selected piped water supply network. In West Bengal the survey was conducted in 1883 households from 201 villages in 21 districts.

# 4. Key Findings

SL.	INDICATOR	West	India
JL.		Bengal	IIIuia
	Household level		
1	Average household size	5.0	5.6
2	Percent of households using tap connection for drinking purpose	85.8	88.9
3	Percentage of households reported working tap connections (supply at least one day in last 7 days)	87.2	93.6
4	Number of water supply days in a usual week		
4a	1 – 2 days	2.3	7.6
4b	3 – 4 days	2.9	10.4
4c	5 – 6 days	1.5	1.5
4d	7 days	93.3	80.5
5	Number of water supply days in the last week		
5a	0 days	1.1	2.4
5b	1 – 2 days	2.0	9.7
5с	3 – 4 days	4.0	14.8
5d	5 – 6 days	4.9	4.9
5e	7 days	88.0	68.1
6	Percentage of households reporting reliability of water supply days	85.8	86.5
7	Percentage of households reporting tap connections functioning continuously for more than 15 days in a month for last 12 months	95.4	84.6
8	Average number of times water is supplied on the days of supply		
8a	1 time	8.5	56.6
8b	2 times	47.5	28.2
8c	3 times	44.0	6.1
8d	4 times/24 hours	0.0	9.1
9	Percentage of households reporting reliability of supply for different supply timings	88.9	84.3
10	Percentage of households reporting adequate water pressure for different supply timings		
10a	Morning	80.0	80.1
10b	Afternoon	82.4	84.6
10c	Evening	71.4	84.8
11	Percentage of households reported paying water tariff – separately or along with other taxes	12.4	52.8
12	Percentage of households reported receiving 55 lpcd or more	95.5	83.5
13	Percentage of households having potable water *	29.9	61.3
14	Percentage of households reporting regularity of supply	94.6	87.2
15	Percentage of households reporting functional tap connections	27.4	47.8
	Village level		
16	Percentage villages having functional water and sanitation committees	11.5	48.5
17	Percentage of functional schemes in the sample villages considering all schemes (supplying water any day in the last 7 days)	86.8	86.0

SL.	INDICATOR	West Bengal	India
18	Percentage of in-village schemes having O&M undertaken by village water and sanitation committee or by Panchayat	50.0	83.1
19	Percentage of sample schemes reported having faced challenges in the last		
15	one year		
19a	Inadequate infrastructure	28.0	40.2
19b	Poor water availability at the source	28.8	33.0
19c	Poor maintenance	41.5	46.2
19d	Natural calamity	80.5	63.4
20	Percentage of schemes reporting measure to improve source sustainability	68.7	59.9
21	Number of sample villages found with no scheme (defunct/under construction/not handed over/not constructed)	18	751

Figure 1, 2 and 3 depicts the functionality aspects of the household tap connections in West Bengal. Figure 1 presents the details of the potability aspects – the proportion of samples which have qualified as per all 13-15 parameters, as well as the proportion of sample which have failed due to one/two/three/more than three parameters.

Functionality in terms of potability, West Bengal 60 53 Percentage of water samples 50 40 30 30 20 13 10 2 1 0 Samples 1 parameter 2 parameters 3 parameters More than 3 failed passed/zero failed failed parameters parameter failed failed

Fig 1: Functionality of the household tap connection in terms of potability - West Bengal

Base: Households with water quality testing done, N: 164

Figure 2 presents functionality in terms of regularity, and presents the water supply situation in the last 7 days (before survey date). This includes information on the proportion of taps supplying water on all 7 days, 5-6 days, 3-4 days, 1-2 days and zero days in the last 7 days. As not all schemes are planned to supply water daily, the information of the proportion of taps supplying water daily or as per the water supply schedule is also presented.

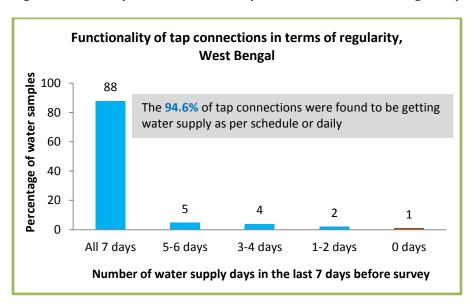


Fig 2: Functionality of the household tap connection in terms of regularity - West Bengal

Base: All Households, N: 1883

Figure 3, presents the summary situation of the working tap connections (defined as supplying water atleast on one day in the last 7 days), the functionality in terms of the proportion of tap connections which have qualified regularity, quantity, quality parameters, and the proportion which have qualified all 3 parameters.

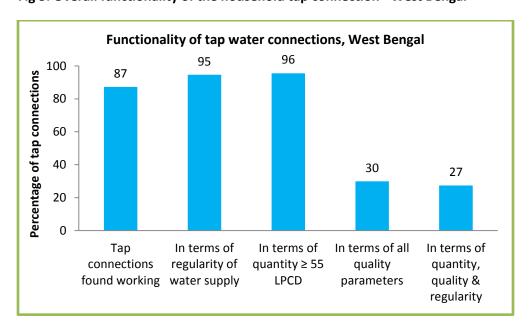


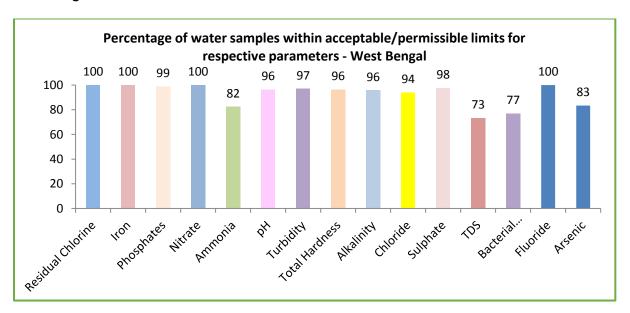
Fig 3: Overall functionality of the household tap connection - West Bengal

Base: Total count of tap connections considered for functionality assessment, N: 1787

A total of 164 water samples were tested as per BIS: 10,500 standards for all 13 parameters. Of these samples, 2 samples included testing for Fluoride and 6 samples for Arsenic. All the water samples were taken from a randomly selected head end household of selected sample PWS schemes in the sample villages of West Bengal – one sample for each of separate water sources in the village. The figure below shows the proportion of samples in which different parameters were found within acceptable/permissible limits.

As can be seen, almost all the samples (98% or more) had Residual Chlorine, Iron, Phosphates, Nitrate and Sulphate within acceptable/permissible limits. Ammonia, Total Hardness, ph, Turbidity, TDS, Bacterial presence (Total Coliform) and Alkalinity were the key issues. Nearly one fifth of the samples tested in Arsenic affected villages were not found to be within acceptable limits.

Fig 4: Percentage of water samples within acceptable/permissible limits for respective parameters – West Bengal



Pic 1: Household survey being undertaken in one of the villages in West Bengal



Pic 2: Water quality sample testing being undertaken in a village in West Bengal



## 5. Conclusions

West Bengal had much lower functional tap connections (27.4%) as compared with the national average. About 96 percent of the households were estimated to be provided 55 lpcd or more water supply and 95 percent of the tap connections have reported a daily water supply or supply on scheduled days. However, the proportion of households receiving potable water is less - about 30 percent. Since the tap connections considered to be functional were as per the JJM guidelines of including adequate quantity (55 lpcd or more), potability (as per BIS:10500 standards) and regularity of water supply (all

days or as per the water supply schedule), the reason that a lower proportion of households had functional tap connections is mostly due to the lower proportion of households having a combination of potability and regularity (29.4% households having adequate quantity and potable water; 29.2% households having potable water received on a regular basis; while 90.7% households had adequate quantity of water supply on a regular basis).

The main issues with the samples which were not found potable were Ammonia, Total Hardness, ph, Turbidity, TDS, Bacterial presence and Alkalinity being above permissible limits.

For most of the schemes water supply was scheduled as daily supply but there seems to be variation from the schedule. A much lower proportion of those reporting a usual daily water supply (93.3%), has reported receiving water supply on a daily basis in the last 7 days (88.0%). Forty-eight percent of the households have reported being supplied water twice a day and 44 percent thrice a day. A majority of the households have reported a reliability of water supply timings as well as adequate water pressure.

However, despite good quality water supply service delivery, only 12 percent households have reported paying water tariff. As per the JJM guidelines, the State Government needs to ensure 100 percent fund requirement for operation and maintenance of the schemes are met by the Agency responsible for water supply provision to function as a utility.

A little more than one tenth of the villages have reported having water and sanitation committees — of these villages, in 50 percent, the water and sanitation committees were actually taking responsibility for operation and maintenance activities of the PWS schemes. As reported by the communities 'natural calamities and poor maintenance' were the main challenges faced by the schemes. About two third of the schemes had taken any initiatives for source sustainability.

#### Annexures to this report includes:

- List of village with no scheme/defunct schemes/under construction is placed as Annexure 1,
- List of villages with schemes supplying only through tap stand/stand posts is placed as Annexure
   2,
- List of villages where 15 FHTCs were not found is placed as Annexure 3,
- Indicative proportion of functional tap connections by districts is placed as Annexure 4, and
- List of villages where samples failed for given quality parameter is placed as Annexure 5

Annexure 1: List of village with no scheme/defunct schemes/under construction

S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Туре	Status of the Scheme	Remarks
1.	Bankur a	Chhatn a	Chhatna-I	Khaira Kanali	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	No scheme	There is no piped water scheme in this village.
2.	Bardha man	Bhatar	Balgona	Bhatakul	Bhatakul W/S scheme	MVS	Scheme is defunct	Scheme is defunct from last 2 years
3.	Bardha man	Purbas thali-li	Patuli	Patuli	Surface water based water supply scheme for arsenic affected areas of Purbasthali-II	MVS	Scheme is defunct	Scheme is not functional since last 8 months
4.	Birbhu m	Illamba zar	Mangaldihi	Khirai	Implementation of 165 nos. Dual use solar pump piped water supply scheme(SM/05851)	MVS	No scheme	There is no piped water scheme in this village.
5.	Darjeel ing	Jore Bunglo w- Sukiap okhri	Permaguri Tamsang	Tumsong Tea Garden	PWS scheme for Tamang TG(GTA)	SVS	No scheme	There is no piped water scheme in this village.
6.	Maldah	English Bazar	Jadupur-I	Uttar Jadupur	Ground water based piped water supply scheme for Bara Phulbari (SM/04840)	MVS	No scheme	There is no piped water scheme in this village.
7.	Maldah	Kaliach ak-li	Hamidpur	Shripur	Water supply scheme for arsenic affected areas in the district of Malda	MVS	Scheme is defunct	Scheme is defunct from last 4 years
8.	Murshi dabad	Raghun athganj -I	Kanupur	Kanupur	Surface water based water supply scheme for arsenic affected areas of Raghunathganj (SM/008730)	MVS	No scheme	There is no piped water scheme in this village.
9.	Nadia	Haring hata	Mollabelia	Uttar Datta Para	Surface water based water supply scheme for Haringhata (SM/02342)	MVS	No scheme	There is no piped water scheme in this village.

S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Туре	Status of the Scheme	Remarks
10.	Nadia	Nabad wip	Mayapur Barmanpuk ur-l	Bamanpukur	Surface water based w/s scheme for arsenic affected area northern sector (Nadia dist.)	MVS	Under construc tion	Under construction
11.	North 24 Paraga nas	Amdan ga	Maricha	Bhaluka	Surface water based w/s scheme for arsenic affected area of north 24 Parganas	MVS	No scheme	There is no piped water scheme in this village.
12.	Paschi m Bardha man	Baraba ni	Barabani	Bhaskajuri	RCFA W/S scheme (part-I)	MVS	No scheme	There is no piped water scheme in this village.
13.	Paschi m Bardha man	Baraba ni	Barabani	Majiara	RCFA W/S scheme (part-I)	MVS	No scheme	There is no piped water scheme in this village.
14.	Purba Medini pur	Ramna gar-I	Padima-li	Gangadharpu r	Rejuvenation of Digha augmentation water supply scheme (central zone) at Digha	MVS	No scheme	There is no piped water scheme in this village.
15.	Purulia	Jhalda- Ii	Begun Kodar	Narayanpur Alias Lakhipur	West Bengal piped water supply project (Purulia JICA)	MVS	No scheme	There is no piped water scheme in this village.
16.	South 24 Paraga nas	Baruip ur	Dhapdhapi -li	Alipur	Surface water based water supply scheme in arsenic affected areas of South 24 Parganas district	MVS	No scheme	There is no piped water scheme in this village.
17.	South 24 Paraga nas	Sonar Pur	Kalikapur-li	Sahebpur	Surface water based water supply scheme in arsenic affected areas of South 24 Parganas district	MVS	No scheme	There is no piped water scheme in this village.
18.	Uttar Dinajp	Karandi ghi	Bazargaon- Ii	Shripur	Water supply scheme for arsenic affected areas in the district of Malda	MVS	Scheme is	Scheme is defunct from last 10 years

S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Туре	Status of the Scheme	Remarks
	ur						defunct	

Annexure 2: List of villages with schemes supplying only through tap stand/standpost

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
1.	Alipurdu ar	Alipurd uar-l	Banchuk amari	Chapata II	Banchukamari piped w/s scheme (SM/03708)	MVS	No FHTC. Water supply through tap stand only
2.	Alipurdu ar	Alipurd uar-l	Pararpa r	Birpara	Birpara piped w/s scheme	SVS	No FHTC. Water supply through tap stand only
3.	Alipurdu ar	Alipurd uar-l	Salkuma r-l	Nutanpa ra	Banchukamari piped w/s scheme(SM/03708)	MVS	No FHTC. Water supply through tap stand only
4.	Alipurdu ar	Alipurd uar-l	Vivekan anda-l	Bholar Dabri	Bholardabri water supply scheme	SVS	No FHTC. Water supply through tap stand only
5.	Alipurdu ar	Kalchin i	Latabari	Uttar Latabarii (CT)	Uttar Latabari w/s scheme	SVS	No FHTC. Water supply through tap stand only
6.	Bankura	Bankur a-II	Puandar pur	Kanchan pur	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	No FHTC. Water supply through tap stand only
7.	Bankura	Barjora	Ghutgor ia	Ghutgar ya	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	No FHTC. Water supply through tap stand only
8.	Bankura	Barjora	Maliara	Kuldiha	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	No FHTC. Water supply through tap stand only
9.	Bankura	Barjora	Maliara	Maliara	Piped water supply scheme for 14 blocks of Bankura district (phase-I)	MVS	No FHTC. Water supply through tap stand only

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
					under BRGF (special)		
10.	Bankura	Chhatn a	Chhatna -I	Barbakr a	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
11.	Bankura	Chhatn a	Chhatna -I	Lakshmi narayan pur	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
12.	Bankura	Saltora	Bamunt ore	Behari	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
13.	Bankura	Saltora	Bamunt ore	Kujkuria	Piped water supply scheme for 14 blocks of Bankura district (phase-I) under BRGF (special)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
14.	Bankura	Sonam ukhi	Panchal	Kanaipu r	Piped water supply schemes for Bankura district phase ii covering 8 blocks SM 05648	MVS	No FHTC. Water supply through tap stand only
15.	Bardham an	Ausgra m-l	Ausgra m	Ban Nabagra m	Bononabagram w/s scheme	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
16.	Bardham	Ausgra	Kota	Kota	Kotachandipur w/s scheme	SVS	Scheme is supplying water through

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
	an	m-II		Chandip ur			tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
17.	Bardham an	Jamal Pur	Jaugram	Jaugram	Rejuvenation Jaugram water supply scheme(SM/04558)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
18.	Bardham an	Purbas thali-l	Nasarat pur	Jaluidan ga	Nasratpur PWSS	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
19.	Birbhum	Murara i-I	Rajgram	Rajgram	Implementation of 165 nos. Dual use solar pump piped water supply scheme(SM/05851)	MVS	No FHTC. Water supply through tap stand only
20.	Birbhum	Nalhati -I	Kurumg ram	Kurumg ram	Implementation of dual use solar pump piped water supply scheme 60 nos in the district of Birbhum (SM/05438)	MVS	No FHTC. Water supply through tap stand only
21.	Birbhum	Nanoor	Nonnag ar Kadda	Khujutip ara	Khujutipara water supply scheme	MVS	No FHTC. Water supply through tap stand only
22.	Coochbe har	Tufang anj-II	Bhanu Kumari-l	Bhanuk umari	Baksirhat w/s. Scheme	MVS	No FHTC. Water supply through tap stand only
23.	Darjeelin g	Matiga ra	Champa sari	Karaibar i	Kalkut water supply scheme	MVS	No FHTC. Water supply through tap stand only
24.	Darjeelin g	Matiga ra	Champa sari	Panchan ai	Chamta and adj Mouza w/s scheme	MVS	No FHTC. Water supply through tap stand only

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
25.	Darjeelin g	Matiga ra	Champa sari	Udaysin g	Salbari and adj Mouza w/s scheme	MVS	No FHTC. Water supply through tap stand only
26.	Darjeelin g	Matiga ra	Matigar a-I	Kauakha II	Kawakhali and adj Mouza w/s scheme	MVS	No FHTC. Water supply through tap stand only
27.	Darjeelin g	Matiga ra	Patharg hata	Chamta	Chamta and adj Mouza w/s scheme	MVS	No FHTC. Water supply through tap stand only
28.	Darjeelin g	Matiga ra	Patharg hata	Guria	Matigarahat and adj Mouza w/s scheme	MVS	No FHTC. Water supply through tap stand only
29.	Darjeelin g	Naxal Bari	Naxalba ri	Bhimra m	Water supply scheme for Naxalbari and adj. Mouzas ( phase-II)	MVS	No FHTC. Water supply through tap stand only
30.	Darjeelin g	Naxal Bari	Naxalba ri	Geni	Water supply scheme for Naxalbari and adj. Mouzas ( phase-II)	MVS	No FHTC. Water supply through tap stand only
31.	Darjeelin g	Naxal Bari	Upper Bagdogr a	Uttar Bagdogr a (CT)	Uttar Bagdogra w/s scheme	SVS	No FHTC. Water supply through tap stand only
32.	Howrah	Bagnan -I	Bagnan	Karia	Rejuvenation of Paschim Bagnan water supply scheme.	MVS	No FHTC. Water supply through tap stand only
33.	Jhargram	Gopiba Ilav Pur -II	Kuliana	Rantua Urf Kalsa	Rantua w/s scheme	MVS	No FHTC. Water supply through tap stand only
34.	Maldah	Kaliach ak-II	Hamidp ur	Shrighar	Water supply scheme for arsenic affected areas in the district of Malda	MVS	No FHTC. Water supply through tap stand only
35.	Murshida bad	Beldan ga-II	Andul Beria-I	Andul Baria	Loknathpur water quality submission(SM/02244)	MVS	No FHTC. Water supply through tap stand only
36.	Murshida bad	Berha mpore	Rangam ati Chandp ara	Charma hula	Char Moula water supply scheme(SM/01549)	MVS	No FHTC. Water supply through tap stand only
37.	Murshida bad	Ranina gar-I	Paharpu r	Moktarp ur	Moktarpur water supply scheme	MVS	No FHTC. Water supply through tap stand only

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
38.	Nadia	Nakash ipara	Patikaba ri	Patikaba ri	Surface water based w/s scheme for arsenic affected area northern sector (Nadia dist.)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
39.	North 24 Paragana s	Amdan ga	Chandig arh	Dariapu r	Surface water based w/s scheme for arsenic affected area of North 24 Parganas	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
40.	North 24 Paragana s	Amdan ga	Taraberi a	Ratanpu r	Surface water based w/s scheme for arsenic affected area of North 24 Parganas	MVS	No FHTC. Water supply through tap stand only
41.	North 24 Paragana s	Barasat -I	Chhotoj agulia	Bamang achhi	Surface water based water supply scheme for arsenic affected areas of Habra Gaighata and adjoining mouzas	MVS	No FHTC. Water supply through tap stand only
42.	North 24 Paragana s	Bongao n	Tengra	Tengra	Bangangram water quality sub-mission scheme	MVS	No FHTC. Water supply through tap stand only
43.	North 24 Paragana s	Hingalg anj	Bishpur	Bispur	Durgapur Baylani w/s scheme	MVS	No FHTC. Water supply through tap stand only
44.	Paschim Bardham an	Baraba ni	Baraban i	Bhanow ara (Ct)	RCFA W/S scheme (part-I)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
45.	Paschim Bardham an	Baraba ni	Domoha ni	Domoha ni	RCFA W/S scheme (part-I)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
							doing water quality test from stand post at that time.
46.	Paschim Bardham an	Baraba ni	Nuni	Chinchu ria	RCFA W/S scheme (part-I)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
47.	Paschim Bardham an	Baraba ni	Nuni	Nuni (B)	RCFA W/S scheme (part-I)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
48.	Purba Medinipu r	Ramna gar-l	Padima- I	Bilamria	Rejuvenation of Digha augmentation water supply scheme (central zone) at Digha	MVS	No FHTC. Water supply through tap stand only
49.	Purulia	Jhalda- II	Begun Kodar	Begun Kodar	West Bengal piped water supply project (Purulia JICA)	MVS	No FHTC. Water supply through tap stand only
50.	Purulia	Raghun ath Pur-I	Babugra m	Ekanja	West Bengal piped water supply project (Purulia JICA)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
51.	Purulia	Raghun ath Pur-I	Nutandi h	Dhatara	West Bengal piped water supply project (Purulia JICA)	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
52.	South 24 Paragana s	Bishnu pur-l	Rashkha li	Rashkha II	Surface water based water supply scheme in arsenic affected areas of South 24 Parganas district	MVS	No FHTC. Water supply through tap stand only

## Functionality Assessment Survey 2020-21- West Bengal

S.No	District Name	Block Name	Panchay at Name	Village Name	Name of largest scheme in the village	Туре	Remarks
53.	South 24 Paragana s	Bishnu pur-II	Panchan an	Nalbhag	Surface water based water supply scheme in arsenic affected areas of South 24 Parganas district	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
54.	South 24 Parganas	Budge Budge- II	Satgach hia	Satgach hia	Surface water based water supply scheme in arsenic affected areas of South 24 Parganas district	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
55.	South 24 Parganas	Budge Budge- II	South Bawali	Chak Etbari	Surface water based water supply scheme in arsenic affected areas of South 24 Parganas district	MVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not doing water quality test from stand post at that time.
56.	Uttar Dinajpur	Itahar	Gulanda r-l	Dhulaha r	Dhulahar water supply scheme	MVS	No FHTC. Water supply through tap stand only
57.	Uttar Dinajpur	Itahar	Gulanda r-I	Gopinat hpur	Chandanpur piped water supply scheme (SM/05002)	MVS	Scheme is not functional from last 2 years

Annexure 3: List of villages where 15 FHTCs were not found

S.No	District name	Block name	Panchayat name	Village name	Name of largest scheme in the village	Typ e
1	Dakshin Dinajpur	Hili	Binshira	Chak Balaram	Nawapara Piped Water Supply Scheme (SM/04865)	MVS
2	Murshidabad	Suti-I	Bansbati	Hilora	Hilora Water Submission Scheme	MVS

Annexure 4: Indicative proportion of functional tap connections by districts

1.		
1.	Alipurduar	0.0
2.	Bardhaman	25.0
3.	Birbhum	60.0
4.	Coochbehar	57.1
5.	Dakshin Dinajpur	10.2
6.	Hooghly	26.7
7.	Howrah	22.2
8.	Jalpaiguri	52.6
9.	Maldah	44.8
10.	Murshidabad	69.0
11.	Nadia	22.9
12.	North 24 Paraganas	0.0
13.	Paschim Bardhaman*	0.0
14.	Paschim Medinipur	21.5
15.	Purba Medinipur	40.0
16.	Purulia	8.9
17.	South 24 Paraganas	0.0
18.	Uttar Dinajpur	0.0

<sup>\*</sup> The denominator is less than 50

Annexure 5: List of villages where samples failed for given quality parameter

S.No.	District name	Block name	Gram panchayat name	Village name			
Villages	Villages with failed water samples for Turbidity test						
1.	Bardhaman	Katwa-I	Sudpur	Sudpur			
2.	Birbhum	Murarai-l	Rajgram	Rajgram			
3.	Dakshin Dinajpur	Hili	Binshira	Kamarghat			
4.	Dakshin Dinajpur	Hili	Panjul	Bagura Fatepur			
5.	Dakshin Dinajpur	Hili	Panjul	Gosaipur			
Villages	Villages with failed water samples for pH test						
1.	Dakshin Dinajpur	Hili	Binshira	Kamarghat			
				Banarhat Tea Garden			
2.	Jalpaiguri	Dhupguri	Banarhat-Ii	(Ct)			

S.No.	District name	Block name	Gram panchayat name	Village name
3.	Jalpaiguri	Matiali	Bidhannagar	Nakhati Tea Garden
4.	Nadia	Karimpur-li	Narayanpur-l	Fazil Nagar
	Paschim			
5.	Medinipur	Keshpur	Anandapur	Anandapur
	South 24			
6.	Paraganas	Jaynagar-I	Dakshin Barasat	Khatsara
Villages v	vith failed water san	nples for Total Hard	ness test	
1.	Bankura	Sonamukhi	Panchal	Kanaipur
2.	Bardhaman	Jamal Pur	Abujhati-I	Abujhati
3.	Bardhaman	Katwa-I	Sudpur	Sudpur
4.	Coochbehar	Cooch Behar Ii	Khapaidanga	Khapaidanga
5.	Jalpaiguri	Maynaguri	Domohani-I	Uttar Marichbari
	Paschim			
6.	Bardhaman	Kanksa	Tilakchandrapur	Rajkusum
Villages v	vith failed water san	nples for Total Alkal	inity test	
1.	Bankura	Barjora	Ghutgoria	Ghutgarya
2.	Bardhaman	Jamal Pur	Abujhati-I	Abujhati
3.	Dakshin Dinajpur	Hili	Binshira	Kamarghat
4.	Dakshin Dinajpur	Hili	Binshira	Jagadishpur
5.	Hooghly	Haripal	Haripal Sahadeb	Gosha
	North 24			
6.	Paraganas	Barrackpur-li	Sewli	Teleni Para
	North 24			
7.	Paraganas	Sandeshkhali-Ii	Monipur	Atapur
	vith failed water san	nples for Chloride te	est	
1.	Bankura	Barjora	Ghutgoria	Ghutgarya
2.	Bardhaman	Jamal Pur	Abujhati-I	Abujhati
3.	Coochbehar	Tufanganj-li	Bhanu Kumari-I	Bhanukumari
				Haritalguri Tea Garden
4.	Jalpaiguri	Dhupguri	Chamurchi	(D)
_	North 24	A	<b>T</b> b 2.	Dalama
5.	Paraganas	Amdanga	Taraberia	Ratanpur
6.	North 24 Paraganas	Sandeshkhali-Ii	Monipur	Atanur
0.	Paschim	Saliuesiikilaii-ii	Νιοπιραί	Atapur
7.	Bardhaman	Pandaveswar	Baidyanathpur	Baidyanathpur
8.	Purulia	Raghunathpur-li	Chelyama	Cheyama
9.	Uttar Dinajpur	Itahar	Patirajpur	Chauduar
10.	Uttar Dinajpur	Raiganj	Barua	Barabarua
	vith failed water san			Dai abai ua
1.	Darjeeling	Matigara	Matigara-l	Kauakhali
2.	Darjeeling	Matigara	Patharghata	Guria
3.	Darjeeling	Matigara	Patharghata	Chamta

S.No.	District name	Block name	Gram panchayat name	Village name		
4.	Darjeeling	Matigara	Champasari	Karaibari		
5.	Darjeeling	Matigara	Champasari	Panchanai		
6.	Darjeeling	Matigara	Champasari	Udaysing		
7.	Darjeeling	Naxal Bari	Naxalbari	Bhimram		
8.	Darjeeling	Naxal Bari	Naxalbari	Geni		
9.	Darjeeling	Naxal Bari	Upper Bagdogra	Uttar Bagdogra (Ct)		
10.	Hooghly	Chanditala-li	Garalgacha	Garalgacha (Ct)		
11.	Hooghly	Pandua	Itachuna-Khannyan	Mandaran		
12.	Hooghly	Polba Dadpur	Harit	Bilatpur		
13.	Hooghly	Polba Dadpur	Rajhat	Baral Malimpur		
14.	Howrah	Bagnan-l	Khalore	Ramchandrapur		
15.	Howrah	Bagnan-li	Mug Kalyanbenapur	Chandanapara		
16.	Howrah	Shyampur-li	Amardaha	Bhatughar		
17.	Murshidabad	Nawda	Patikabari	Mahammadpur		
18.	Nadia	Krishnaganj	Gobindapur	Kadipur		
19.	Nadia	Tehatta-Ii	Barnia	Barnia		
	Paschim					
20.	Medinipur	Ghatal	Monoharpur-li	Patharchak Gobindapur		
	Paschim					
21.	Medinipur	Ghatal	Monoharpur-li	Katan		
22	Paschim	V. d	A l	A		
22.	Medinipur Paschim	Keshpur	Anandapur	Anandapur		
23.	Medinipur	Pingla	Maligram-V	Maligram		
23.	Paschim	Filigia	ivialigi alli-v	ivialigialli		
24.	Medinipur	Sabang	Mohar	Dubrajpur		
	Paschim			_ a.c. a,p.a.		
25.	Medinipur	Sabang	Mohar	Basulya		
	Paschim			·		
26.	Medinipur	Sabang	Mohar	Chakmadhab		
27.	Purba Medinipur	Chandipur	Chowkhali	Kotbar		
28.	Purba Medinipur	Chandipur	Chowkhali	Kulapara		
29.	Purba Medinipur	Kolaghat	Gopalnagar	Gopal Nagar		
Villages v	with failed water san	nples for Phosphate	test			
1.	Darjeeling	Matigara	Patharghata	Chamta		
2.	Howrah	Bally-Jagacha	Sanpuipara Basukati	Bally(Ct)		
Villages v	with failed water san	nples for Sulphate t	est			
1.	Coochbehar	Cooch Behar li	Madhupur	Kalapani		
2.	Jalpaiguri	Matiali	Bidhannagar	Nakhati Tea Garden		
3.	Maldah	Kaliachak-li	Hamidpur	Shripur		
	South 24					
4.	Paraganas	Sagar	Das Para Sumatinagar-I	Dhaspara		
Villages	Villages with failed water samples for Total Dissolved Solids test					

S.No.	District name	Block name	Gram panchayat name	Village name
1.	Alipurduar	Alipurduar-I	Banchukamari	Banchukamari
2.	Alipurduar	Alipurduar-I	Banchukamari	Chapatali
3.	Alipurduar	Alipurduar-I	Salkumar-I	Nutanpara
4.	Alipurduar	Alipurduar-I	Pararpar	Birpara
5.	Alipurduar	Alipurduar-I	Vivekananda-I	Bholar Dabri
6.	Alipurduar	Kalchini	Latabari	Uttar Latabarii (Ct)
-	<b>1</b>	Madarihat-		(
7.	Alipurduar	Birpara	Lankapara	Lankapara Tea Garden
	·	Madarihat-	·	·
8.	Alipurduar	Birpara	Birpara-li	Dalmore Tea Garden
		Madarihat-		Dumchipara Tea
9.	Alipurduar	Birpara	Hantapara	Garden
		Madarihat-		
10.	Alipurduar	Birpara	Birpara-l	Birpara Tea Garden
11.	Bankura	Bankura-Ii	Puandarpur	Kanchanpur
12.	Bankura	Barjora	Ghutgoria	Ghutgarya
13.	Bardhaman	Jamal Pur	Abujhati-l	Abujhati
14.	Bardhaman	Mangolkote	Mangalk0Te	Mangalkot
15.	Coochbehar	Tufanganj-Ii	Bhanu Kumari-I	Bhanukumari
				Haritalguri Tea Garden
16.	Jalpaiguri	Dhupguri	Chamurchi	(D)
	North 24			
17.	Paraganas	Amdanga	Taraberia	Ratanpur
	North 24			
18.	Paraganas	Barasat-I	Chhotojagulia	Bamangachhi
40	North 24	D I I	IZ a de Cara de	Darit ada
19.	Paraganas North 24	Barasat-I	Kashimpur	Patincha
20.	Paraganas	Barasat-I	Purbakhilkapur	Khilkanur
20.	North 24	Ddi dSdl-i	Риграктикариг	Khilkapur
21.	Paraganas	Barrackpur-li	Sewli	Teleni Para
21.	North 24	Ваттаскрат п	SCWII	TCICIII I did
22.	Paraganas	Bongaon	Tengra	Tengra
	North 24		. 5.18. 5	
23.	Paraganas	Hingalganj	Bishpur	Bispur
	North 24		•	·
24.	Paraganas	Sandeshkhali-li	Monipur	Atapur
	Paschim	Faridpur -		
25.	Bardhaman	Durgapur	Jemua	Tetikhala
	Paschim			
26.		Kanksa	Tilakchandrapur	Rajkusum
	Bardhaman	Kaliksa		
	Paschim		·	•
27.	Paschim Bardhaman	Pandaveswar	Baidyanathpur	Baidyanathpur
27. 28. 29.	Paschim		·	•

S.No.	District name	Block name	Gram panchayat name	Village name
30.	Purulia	Neturia	Sarbari	Mahishnadi
31.	Purulia	Raghunath Pur-I	Babugram	Gobindapur
32.	Purulia	Raghunathpur-Ii	Chelyama	Cheyama
33.	Purulia	Raghunathpur-Ii	Mangalda Moutore	Gabranda
	South 24			
34.	Paraganas	Bishnupur-I	Rashkhali	Rashkhali
	South 24		Patharberia	
35.	Paraganas	Bishnupur-li	Jaychandipur	Khasjhika
	South 24		0 0 11	<b>5</b>
36.	Paraganas	Budge Budge-li	Gaya-Poali	Paita
37.	Uttar Dinajpur	Itahar	Patirajpur	Tilna
38.	Uttar Dinajpur	Itahar	Patirajpur	Chauduar
39.	Uttar Dinajpur	Itahar	Surun-l	Shurun
40.	Uttar Dinajpur	Itahar	Surun-I	Bariol
41.	Uttar Dinajpur	Itahar	Gulandar-I	Dhulahar
42.	Uttar Dinajpur	Itahar	Kapasia	Chandanpur
43.	Uttar Dinajpur	Raiganj	Bhatun	Malibari
44.	Uttar Dinajpur	Raiganj	Barua	Barabarua
Villages	with failed water san	nples for Bacteriolog	gical present/ absence tes	t using H2S vials
1.	Alipurduar	Alipurduar-I	Banchukamari	Chapatali
2.	Bankura	Barjora	Maliara	Kuldiha
3.	Birbhum	Bolpur-Sriniketan	Sian Muluk	Shian
4.	Birbhum	Labpur	Dwarka	Danrka
5.	Coochbehar	Dinhata-Ii	Kismat Dasgram	Kismat Dasagram
6.	Dakshin Dinajpur	Hili	Panjul	Domran
7.	Dakshin Dinajpur	Hili	Binshira	Kamarghat
8.	Dakshin Dinajpur	Hili	Panjul	Nafar
9.	Dakshin Dinajpur	Hili	Panjul	Ramkrishnapur
10.	Dakshin Dinajpur	Hili	Binshira	Chak Balaram
11.	Dakshin Dinajpur	Hili	Panjul	Chak Gopal
12.	Hooghly	Chanditala-Ii	Naity	Adan
13.	Hooghly	Pandua	Itachuna-Khannyan	Mandaran
14.	Hooghly	Pandua	Pandua	Pandua (Ct)
15.	Hooghly	Pandua	Pandua	Pandua (Ct)
16.	Hooghly	Pandua	Pandua	Pandua (Ct)
17.	Howrah	Bagnan-I	Bagnan-I	Hijlak
18.	Howrah	Bagnan-I	Bainan	Karia
19.	Howrah	Bagnan-li	Chandrabhag	Kulitapara
20.	Howrah	Bagnan-li	Orphuly	Rana
21.	Howrah	Shyampur-li	Amardaha	Bhatughar
22.	Jalpaiguri	Dhupguri	Banarhat-li	Banarhat Tea Garden (Ct)
23.	Jalpaiguri	Maynaguri	Domohani-I	Uttar Marichbari
	1 0	, 5-		

## Functionality Assessment Survey 2020-21- West Bengal

S.No.	District name	Block name	Gram panchayat name	Village name
24.	Jhargram	Gopiballav Pur -li	Kuliana	Rantua Urf Kalsa
25.	Maldah	Kaliachak-Iii	Krishnapur	Suzapur Mandai
26.	Maldah	Kaliachak-Iii	Birnagar-li	Sultanganj (P)
27.	Maldah	Kaliachak-Iii	Birnagar-li	Baishnabnagar
28.	Nadia	Chakdah	Silinda-I	Silinda
29.	Nadia	Hanskhali	Badkulla-I	Purba Khamar Simulia
30.	Nadia	Karimpur-li	Narayanpur-l	Fazil Nagar
	North 24			
31.	Paraganas	Barasat-I	Purbakhilkapur	Khilkapur
	Paschim			
32.	Medinipur	Keshpur	Anandapur	Anandapur
33.	Paschim Medinipur	Keshpur	Anandapur	Anandapur
	Paschim			
34.	Medinipur	Pingla	Maligram-V	Maligram
35.	Purulia	Raghunathpur-Ii	Mangalda Moutore	Gabranda
36.	Uttar Dinajpur	Itahar	Patirajpur	Chauduar
37.	Uttar Dinajpur	Itahar	Surun-I	Bariol
38.	Uttar Dinajpur	Raiganj	Bhatun	Malibari
Villages	with failed water sa	mples for Arsenic tes	t	
1.	Murshidabad	Nawda	Patikabari	Mahammadpur