

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

State report

Jharkhand



Submitted to:

National Jal Jeevan Mission

Department of Drinking Water and Sanitation

Ministry of Jal Shakti

Report prepared by:

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Table of Contents

1. Introduction	2
2. Objectives of the study	2
3. Approach and Methodology	2
4. Key Findings	3
5. Conclusions	8
Annexure 1: List of village with no scheme/defunct schemes/under construction	9
Annexure 2: List of villages with schemes supplying only through tap stand/stand posts	13
Annexure 3: List of villages where 15 FHTCs were not found	17
Annexure 4: Indicative proportion of functional tap connections by districts	18
Annexure 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 H₂S 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 Jharkhand the survey was conducted in 1742 households from 240 villages in 24 districts.

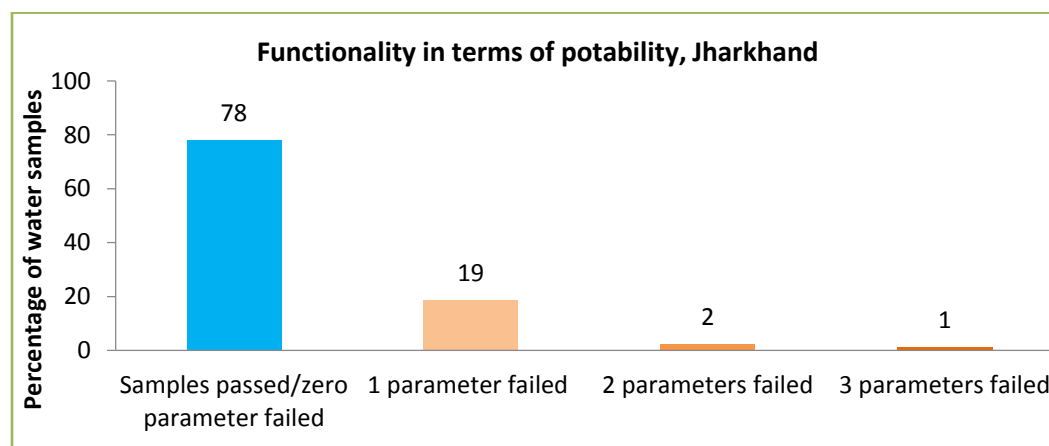
4. Key Findings

SL.	INDICATOR	Jharkhand	India
Household level			
1	Average household size	5.9	5.6
2	Percent of households using FHTC for drinking purpose	80.6	88.9
3	Percentage of households reported working tap connections (supply at least one day in last 7 days)	91.0	93.6
4	Number of water supply days in a usual week		
4a	1 – 2 days	4.5	7.6
4b	3 – 4 days	16.0	10.4
4c	5 – 6 days	7.2	1.5
4d	7 days	72.3	80.5
5	Number of water supply days in the last week		
5a	0 days	2.0	2.4
5b	1 – 2 days	6.8	9.7
5c	3 – 4 days	20.1	14.8
5d	5 – 6 days	21.5	4.9
5e	7 days	49.5	68.1
6	Percentage of households reporting reliability of water supply days	74.2	86.5
7	Percentage of households reporting tap connections functioning continuously for more than 15 days in a month for last 12 months	68.2	84.6
8	Average number of times water is supplied on the days of supply		
8a	1 time	90.0	56.6
8b	2 times	9.7	28.2
8c	3 times	0.2	6.1
8d	4 times/24 hours	0.1	9.1
9	Percentage of households reporting reliability of supply for different supply timings	73.6	84.3
10	Percentage of households reporting adequate water pressure for different supply timings		
10a	Morning	59.6	80.1
10b	Afternoon	69.4	84.6
10c	Evening	69.4	84.8
11	Percentage of households reported paying water tariff – separately or along with other taxes	34.6	52.8
12	Percentage of households reported receiving 55 lpcd or more	59.2	83.5
13	Percentage of households having potable water *	77.9	61.3
14	Percentage of households reporting regularity of supply	71.7	87.2
15	Percentage of households reporting functional tap connections	36.1	47.8
Village level			
16	Percentage villages having functional water and sanitation committees	63.8	48.5
17	Percentage of functional schemes in the sample villages considering all schemes (supplying water any day in the last 7 days)	73.2	86.0
18	Percentage of in-village schemes having O&M undertaken by village water	77.6	83.1

SL.	INDICATOR	Jharkhand	India
	and sanitation committee or by Panchayat		
19	Percentage of sample schemes reported having faced challenges in the last one year		
19a	Inadequate infrastructure	40.6	40.2
19b	Poor water availability at the source	23.4	33.0
19c	Poor maintenance	50.8	46.2
19d	Natural calamity	68.8	63.4
20	Percentage of schemes reporting measure to improve source sustainability	60.2	59.9
21	Number of sample villages found with no scheme (defunct/under construction/not handed over/not constructed)	50	751

Figures 1, 2 and 3 depicts the functionality aspects of the household tap connections in Jharkhand. 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.

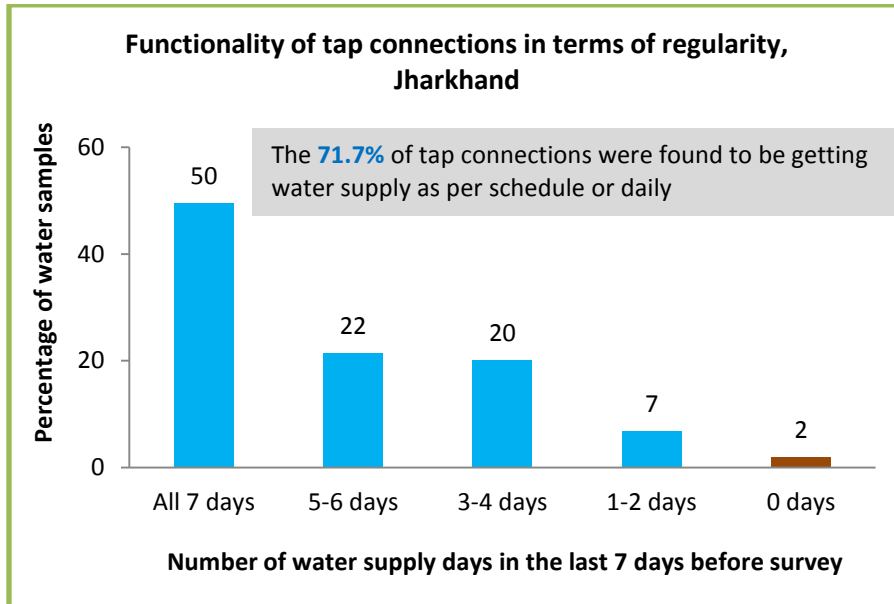
Fig 1: Functionality of the household tap connection in terms of potability - Jharkhand



Base: Households with water quality testing done, N: 172

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.

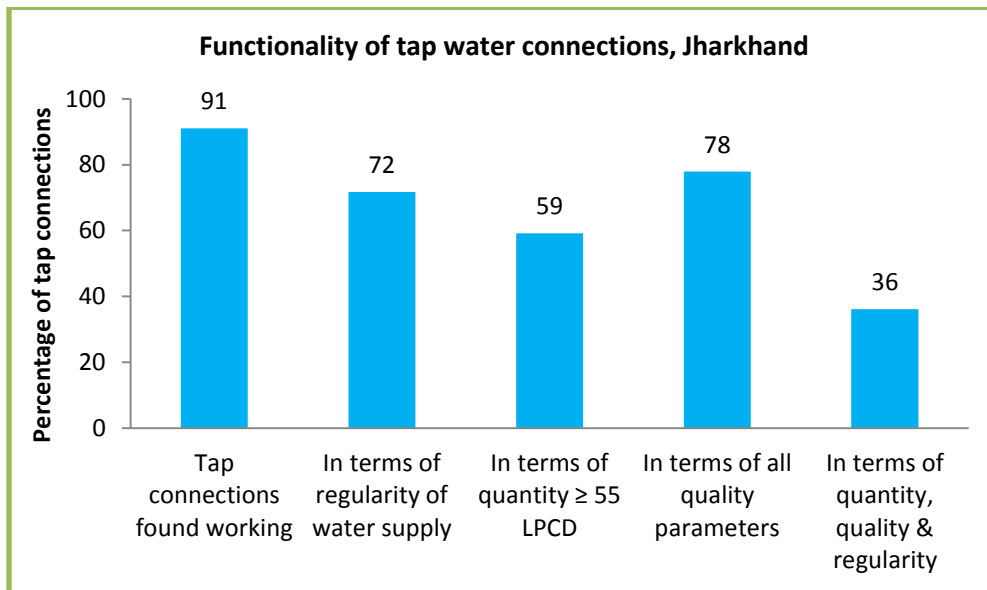
Fig 2: Functionality of the household tap connection in terms of regularity - Jharkhand



Base: All Households, N: 1742

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 - Jharkhand

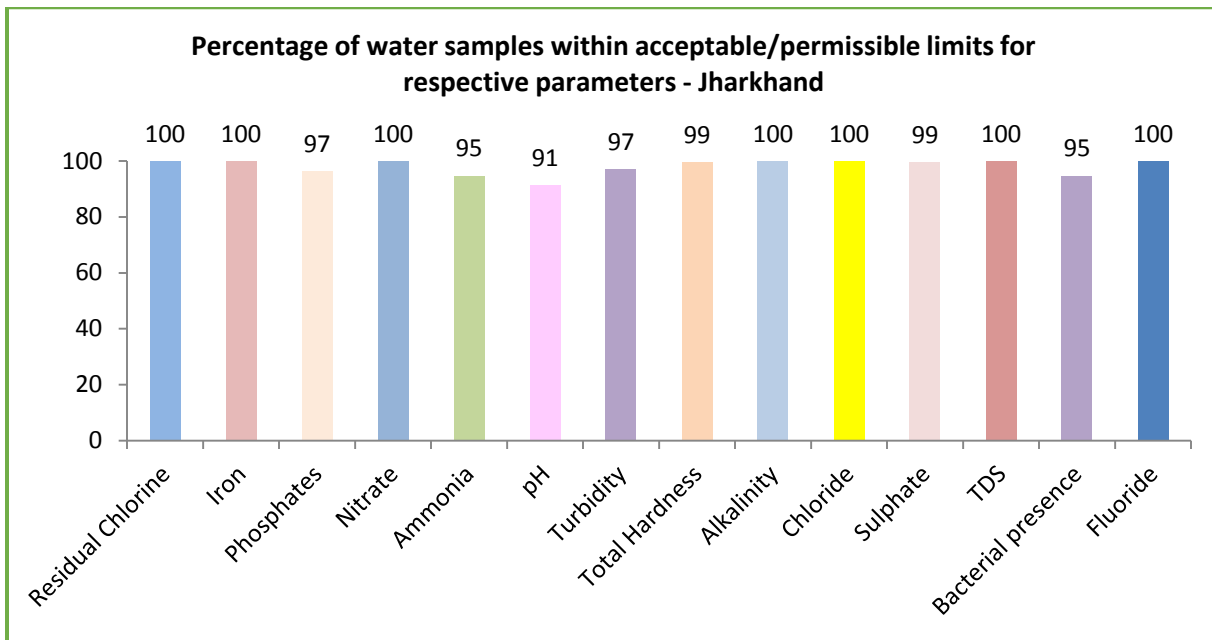


Base: Total count of tap connections considered for functionality assessment, N: 1475

A total of 172 water samples were tested as per BIS: 10,500 standards from a randomly selected head end households of selected sample PWS schemes in the sample villages of Jharkhand. 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 (97% and above) had Residual Chlorine, Iron, Phosphates, Nitrate, Turbidity, Total Hardness, Alkalinity, Chloride, Sulphate, TDS, and Fluoride within acceptable/permissible limits. pH, and Bacterial presence (total coliform) were the issues with the small proportion of samples which were not found potable.

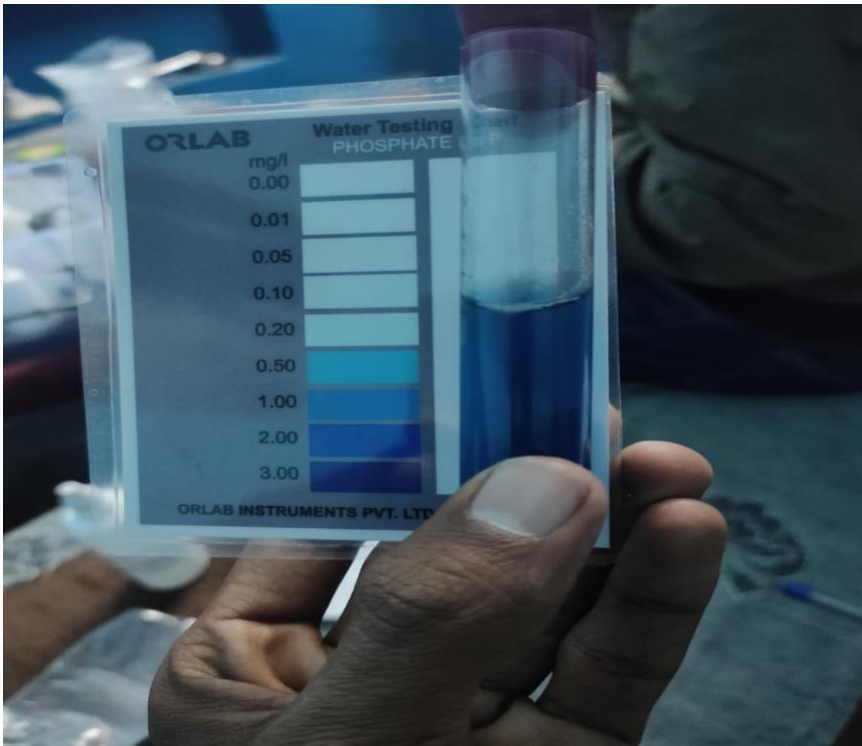
Fig 4: Percentage of water samples within acceptable/permissible limits for respective parameters - Jharkhand



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



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



5. Conclusions

Jharkhand had significantly lower functional tap connections (36.1%) as compared with the national average. Nearly three fifth (59%) of tap connections are estimated to supply more than 55 lpcd or more water and about 72 percent of tap connections were found to be supplying water daily or as per schedule. The proportion of households reporting to get potable water is 78 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 quantity and regularity (46.9% households having adequate quantity and potable water; 58.9% households having potable water received on a regular basis; while 43.7% households had adequate quantity of water supply on a regular basis).

The main issues with the samples which were not found potable were bacteriological (total coliform), as well as pH being not within 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 (72.3%), has reported receiving water supply on a daily basis in the last 7 days (49.5%). Ninety percent of the households have reported being supplied water once a day, and the rest, mostly two times. While three-fourth of the households have reported a reliability of water supply timings, only 69 percent reported adequate water pressure.

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

Almost two thirds of the villages have reported having water and sanitation committees – of these villages, in about three-fourths, 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, inadequate infrastructure and poor maintenance’ were the main challenges faced by the schemes. Sixty percent 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	Type	Status of the Scheme	Remarks
1.	Bokaro	Bermo	Armo	Gandke	MNRE Solar Rpwss Prasadi Yadav	SVS	Scheme is defunct	Scheme is not functional since last 7 months
2.	Chatra	Girdhou r	Pahra	Marangi	MWS-Marangi, Shiv Mandir (CRF)	SVS	No scheme	There is a tanker that everyone uses.
3.	Chatra	Pratapp ur	Bharhi	Rajpur	Rajpur - RPWSS (NCEF)	SVS	Scheme is defunct	Scheme is not functional since last 15 months
4.	Deoghar	Margo munda	Margomun da	Bagh Sila	Margomunda PRWSS State Plan	MVS	Scheme is defunct	Scheme is not functional
5.	Dumka	Dumka	Darbarpur	Darbarpur	Parsimla Rural Water Supply Scheme	MVS	Scheme is defunct	Scheme is not functional since last 1 year
6.	Dumka	Dumka	Murbhanga	Domohani	Const Of MWSS	SVS	Scheme is defunct	
7.	Dumka	Gopikan dar	Kharauni Bazar	Ahrichuwa	R W S Scheme/NRDWP	SVS	Under construction	Under construction
8.	Dumka	Ramgar h	Dhowa	Ramgarh	Dhowa Lakhanpur And Adjoining Villages Rural Water Supply Scheme	MVS	Under construction	Under construction
9.	Garhwa	Garhwa	Chhatarpur	Bishunpur	Bishunpur Water Supply Scheme(State Plan)	SVS	No scheme	No scheme in village
10.	Giridih	Bengab ad	Telonari	Telonari	PWS Telonari	SVS	Scheme is defunct	Scheme defunct for 1 year.
11.	Giridih	Dumri	Jam Tara	Jam Tara	Dumri RPWSS 100 State Plan	MVS	Scheme is defunct	Scheme is not functional since last 1 year
12.	Giridih	Dumri	Sankardih	Bela Tand	Shankardih RPWSS 100 Percent State Plan	MVS	Scheme is defunct	Scheme is not functional since last 1 year
13.	Giridih	Giridih	Akdanhi Khurd	Akdanhi Khurd	Akdounikala RPWSS State Plan	MVS	Scheme is defunct	Another scheme has stand post. It is not working
14.	Giridih	Giridih	Mohanpur	Turukdiha	Gadi Srirampur RPWSS 100 Percent State Plan	MVS	Under construction	Under construction

Functionality Assessment Survey 2020-21- Jharkhand

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15.	Giridih	Jamua	Pindarsot	Kasio Tola	D/T	SVS	No scheme	No scheme in village
16.	Giridih	Rajdhanwar	Parsan	Khijarsota	Solar Pump Khijorsota	SVS	Scheme is defunct	Scheme is not functional since last 1 year
17.	Godda	Basantray	Kaithpura	Kaithpura	Kaithpura PWS	SVS	Scheme is defunct	
18.	Godda	Godda	Jamani Paharpur	Ghat Jamuni	P.S. Ghat Jamni	SVS	Scheme is defunct	
19.	Godda	Poreyhat	Bhatondha	Bhatondha	S/R To Dt 06-07	SVS	Scheme is defunct	
20.	Gumla	Palkot	Koleng	Koleng	Pipe Water Supply Near School	SVS	No scheme	No scheme in village
21.	Gumla	Sisai	Larango	Larango	Pipe Water Supply Pawan Sahu	SVS	Scheme is defunct	Scheme is not functional since last 1 year
22.	Hazaribag	Barkagan	Dadhi Kala	Deoriakala	PWS Solar Bhawani Mahto	SVS	Scheme is defunct	
23.	Hazaribag	Barkagan	Kandtari	Mahudi	Ptg Mhudi Shbhiya	SVS	Scheme is defunct	Scheme is not functional since last 1 year
24.	Hazaribag	Ichak	Barka Kala	Barka Kalan	PWS Near Pond Khas	SVS	Scheme is defunct	Scheme is not functional since last 2 years
25.	Hazaribag	Tatijhariya	Bharajo	Amnari	Solar Prakash Singh/ Shiv Mandir	SVS	Scheme is defunct	
26.	Khuti	Karra	Ghusili	Ghunsuli	PWS Ghunsuli	SVS	Scheme is defunct	Scheme is not functional since last 2 years
27.	Khuti	Rania	Khatanga	Garai	PWS Garai With Solar	SVS	Scheme is defunct	Scheme is not functional since last 1 year
28.	Koderma	Jainagar	Yogiatilha	Yogiatilha	PWSS Yogiatilha	SVS	Scheme is defunct	
29.	Latehar	Barwadih	Kechki	Kanchanpur	PWS	SVS	Scheme is defunct	Scheme is not functional since last 1 year
30.	Pakur	Littipara	Bara Ghaghari	Bara Ghaghari	Littipara And Adjoining Village RPWSS	MVS	Scheme is defunct	
31.	Pakur	Maheshpur	Maheshpur	Madhupur	Maheshpur Rural Pipe Water Supply Scheme	MVS	Under construction	Under construction

Functionality Assessment Survey 2020-21- Jharkhand

S. No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
32.	Pakur	Pakur	Hira Nand Pur	Piyadapur	Solar Based RWSS Piyadapur (PTG)	SVS	Under construction	Under construction
33.	Pakur	Pakuria	Basetkundi	Dholkata	PWSS	SVS	Under construction	Under construction
34.	Paschim Singhbhum	Jaganna thpur	Patajaint	Pokam	Saraswatipur Rural Pipe Water Supply Scheme	MVS	Scheme is defunct	
35.	Paschim Singhbhum	Manoharpur	Lailor	Raikapath	Lailore Rural Water Supply Scheme	MVS	Scheme is defunct	Scheme is not functional since last 7 months
36.	Purbi Singhbhum	Bahragora	Baragara	Dubrajpur	Mauda RPWSS	MVS	Scheme is defunct	
37.	Purbi Singhbhum	Chakuli	Chandanpur	Jhariya	Pitajuri RPWSS	MVS	Under construction	Under construction
38.	Purbi Singhbhum	Dumaria	Barakanjiya	Dumaria	Dumaria Solar Mini Water Supply Scheme In PTGS Tola	SVS	Scheme is defunct	Scheme is not functional since last 3 years
39.	Purbi Singhbhum	Patamda	Bangurda	Bandhdih	Bangurda Sansad Adrash Gram Jalapurti Yozna	MVS	Scheme is defunct	Scheme is not functional since last 3 years
40.	Purbi Singhbhum	Patamda	Bangurda	Chhota Gopalpur	Bangurda Sansad Adrash Gram Jalapurti Yozna	MVS	Under construction	Under construction
41.	Purbi Singhbhum	Patamda	Bankuchiya	Bankuchiya	Manjhidi Primary School F/L	SVS	Under construction	Under construction
42.	Ranchi	Ormanjhi	Kute	Khudia	Ormanjhi Rpress	MVS	Scheme is defunct	Scheme is not functional since last 2 years
43.	Sahibganj	Barhait	Fulbhanga	Fulbhanga	Sahibganj Megha Water Supply Scheme	MVS	Under construction	Under construction
44.	Sahibganj	Barhait	Panchkathiya Bazar	Babupur	Sahibganj Megha Water Supply Scheme	MVS	Under construction	Under construction

Functionality Assessment Survey 2020-21- Jharkhand

S. No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
45.	Sahibganj	Rajmahal	Darla	Manik Pur	Parmeshwar Mahto	SVS	Under construction	Under construction
46.	Sahibganj	Rajmahal	East Jamnagar	East Jam Nagar	Sahibganj Megha Water Supply Scheme	MVS	No scheme	No scheme in village
47.	Sahibganj	Rajmahal	West Narayan Pur	West Narayanpur	Sahibganj Megha Water Supply Scheme	MVS	Scheme is defunct	Scheme is not functional since last 2 years
48.	Sahibganj	Udhua	West Udhua	Udhua Part	Manjhi Asthan Mini Pipe Water Supply Scheme	MVS	Scheme is defunct	
49.	Sareikela And Kharsawan	Kharsawan	Dalaikela	Dalai Kela	Mini PWS-Dalaikela	SVS	Scheme is defunct	Scheme is not functional since last 1 year
50.	Simdega	Simdega	Kullukera	Hathi Bari	Ramrekha Dham Rural Piped Water Supply Scheme	MVS	Scheme is defunct	

Functionality Assessment Survey 2020-21- Jharkhand

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

S. No.	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
1.	Bokaro	Chandanhiyari	Saharjori	Barkama	Bivah Mandap (MWSS)	SVS	No FHTC. Water supply through tap stand only
2.	Bokaro	Kasmar	Madhukarpur	Chandipur	Mini PWSS (Chandipur)	SVS	No FHTC. Water supply through tap stand only
3.	Chatra	Hunterganj	Nawadih Panari	Nawadih Panari	Nawadih Panari - RPWSS (NCEF)	SVS	No FHTC. Water supply through tap stand only
4.	Chatra	Kanhachatti	Chiridiri	Chiridiri	Mini RPWSS - Chiridiri	SVS	No FHTC. Water supply through tap stand only
5.	Chatra	Lawalona	Mandhani	Hutru	Hutru - RPWSS (Ncef)	SVS	No FHTC. Water supply through tap stand only
6.	Chatra	Mayurhund	Soki	Cheri	Mayurhund Block HQ And Adjoining Village Rural Pipe Water Supply Scheme	MVS	No FHTC. Water supply through tap stand only
7.	Chatra	Pratappur	Chndrigovindpur	Mohanpur	Mohanpur - RPWSS (Ncef)	SVS	No FHTC. Water supply through tap stand only
8.	Chatra	Pratappur	Eghara	Eghra	PWS-(Population 1500-2000)	SVS	No FHTC. Water supply through tap stand only
9.	Chatra	Simaria	Edla	Edla	PWS-Edla / Chhotka Edla	SVS	No FHTC. Water supply through tap stand only
10.	Deoghar	Sarath	Bochbandh	Bochbandh	Bara RPWSS State Plan	MVS	No FHTC. Water supply through tap stand only
11.	Deoghar	Sarath	Jamuasole	Jamuasole	Mini PWS Scheme Jamuasole	SVS	No FHTC. Water supply through tap stand only
12.	Deoghar	Sarath	Kera Bank	Munda	Mathatar RPWSS State Plan	MVS	No water supply in tap stand for two days
13.	Dhanbad	Nirsa	Upchuria	Upchuria	Nirsa Govindpur Multi Villages RPWSS North Zone	MVS	No FHTC. Water supply through tap stand only
14.	Dumka	Jarmundi	Bhalki	Bhalki	R.W/S Scheme Bhalki	SVS	No FHTC. Water supply through tap stand only
15.	Dumka	Ramgarh	Siltha-A	Bara Paghar	Barapaghar PWSS	SVS	No FHTC. Water supply through tap stand only
16.	Garhwa	Garhwa	Nawada	Nawada	Mini RPWSS_Nawada	SVS	No FHTC. Water supply through tap stand only
17.	Garhwa	Garhwa	Obra	Obra	Ptg Obra Khas Tola MWSS	SVS	No FHTC. Water supply through tap stand

Functionality Assessment Survey 2020-21- Jharkhand

S. No.	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
							only
18.	Garhwa	Kandi	Kharoudha	Kharaundha	Mini PWS Kharoundha	SVS	No FHTC. Water supply through tap stand only
19.	Garhwa	Ketar	Ketar	Ketar	Mini PWS Ketar	SVS	No FHTC. Water supply through tap stand only
20.	Garhwa	Meral	Meral West	Meral West	NCEF Mini PWS Adhoura Khas	MVS	No FHTC. Water supply through tap stand only
21.	Garhwa	Ramkanda	Udaypur	Udaipur	SC Udaypur Khas Tola MWSS	MVS	No FHTC. Water supply through tap stand only
22.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd	SC Udaypur Khas Tola MWSS	MVS	No FHTC. Water supply through tap stand only
23.	Godda	Boarigor	Daikaita	Ranidih	PWS Scheme Source Complete	SVS	No FHTC. Water supply through tap stand only
24.	Godda	Godda	Markhan	Markhan	PWS Scheme	SVS	No FHTC. Water supply through tap stand only
25.	Godda	Meherma	Balbadda	Belbadda	Balbadda PWS	SVS	No FHTC. Water supply through tap stand only
26.	Godda	Poreyhat	Ratanpur	Jagarnathpur	M.S Jagarnathpur	SVS	No FHTC. Water supply through tap stand only
27.	Godda	Poreyhat	Salaiya	Sajhia	Praditayan Tola	SVS	No FHTC. Water supply through tap stand only
28.	Godda	Poreyhat	Salaiya	Salaiya	Gajo Tola	SVS	No FHTC. Water supply through tap stand only
29.	Gumla	Chainpur	Kating	Kating	Khorha Toli Water Supply Scheme (PTG)	SVS	No FHTC. Water supply through tap stand only
30.	Gumla	Palkot	Tapkara	Tapkara	Mini Pipe Water Supply Scheme Tapkara	SVS	No FHTC. Water supply through tap stand only
31.	Gumla	Sisai	Kudra	Karkari	Mini Pipe Water Supply Karkari	SVS	No FHTC. Water supply through tap stand only
32.	Hazaribag	Dari	Mishainmodha	Misrainmodha	Rikwa RPWSS	MVS	No FHTC. Water supply through tap stand only
33.	Hazaribag	Katkamsandi	Dato Khurd	Danto Khurd	ST Bela Bandh	SVS	No FHTC. Water supply through tap stand only

Functionality Assessment Survey 2020-21- Jharkhand

S. No.	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
34.	Hazaribag	Tatijhariya	Bharajo	Bharajo	Solar Mahadev Prajapati	SVS	Stand post is there in this village but we were not doing water test that time.
35.	Jamtara	Kundhit	Muraberiya	Muraberiya	PWS	SVS	No FHTC. Water supply through tap stand only
36.	Jamtara	Kundhit	Nagari	Nagari	PWS Fatehpur	MVS	No FHTC. Water supply through tap stand only
37.	Khuti	Karra	Jariya	Jariya	PWS Near T O P	SVS	No FHTC. Water supply through tap stand only
38.	Khuti	Khunti	Birhu	Belwadag	Arjun Ram Mini RWSS SC	SVS	No FHTC. Water supply through tap stand only
39.	Khuti	Murhu	Hethgoa	Sirka	PWS Sarna Sthal	SVS	No FHTC. Water supply through tap stand only
40.	Latehar	Bariatu	Shibla	Shibla	MNRE Bich Basti	SVS	No FHTC. Water supply through tap stand only
41.	Latehar	Barwadih	Barwadih	Baradih	Hat Barwadih	SVS	No FHTC. Water supply through tap stand only
42.	Latehar	Barwadih	Chhecha	Chapri	SC Tola MWSS Chapari Majumari Tola	SVS	No FHTC. Water supply through tap stand only
43.	Latehar	Barwadih	Chhecha	Chhencha	PWS	SVS	No FHTC. Water supply through tap stand only
44.	Latehar	Barwadih	Pokhri Kala	Pokhari Kalan	NCEF (1541) Futharwa	SVS	No FHTC. Water supply through tap stand only
45.	Latehar	Latehar	Parsahi	Hotwag	PWS	SVS	No FHTC. Water supply through tap stand only
46.	Lohardaga	Kisko	Nawadih	Nini	Mini Pipe Water Supply Scheme NINI	SVS	No FHTC. Water supply through tap stand only
47.	Lohardaga	Kuru	Jima	Jima	Solar Based PWS Jima Adivasi Tola Durga Puja Sthal Pass	SVS	No FHTC. Water supply through tap stand only
48.	Lohardaga	Kuru	Jingi	Jonjro	MPWSS Jojro	SVS	No FHTC. Water supply through tap stand only
49.	Lohardaga	Kuru	Pandra	Pandra	Solar Based PWS Pandra Jingi Road Gobra Oraon	SVS	No FHTC. Water supply through tap stand only
50.	Lohardaga	Loharda	Nigni	Ningni	Mini Pipe Water Supply Scheme Ningni	SVS	No FHTC. Water supply through tap stand

Functionality Assessment Survey 2020-21- Jharkhand

S. No.	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
		ga					only
51.	Palamu	Pandu	Kutmu	Kutmu	Kutmu Kewal Tola PWS	SVS	No FHTC. Water supply through tap stand only
52.	Paschim Singhbhum	Chakrad harpur	Kera	Kera	Solar Mwss Kera Mandir	SVS	No FHTC. Water supply through tap stand only
53.	Paschim Singhbhum	Chakrad harpur	Nalita	Burunalita	Mini Rural PWS Scheme Burunalita	SVS	No FHTC. Water supply through tap stand only
54.	Paschim Singhbhum	Chakrad harpur	Simidiri	Simidiri	Mini Rural PWS Scheme Simidiri	SVS	No FHTC. Water supply through tap stand only
55.	Paschim Singhbhum	Jaganna thpur	Jagnathpur	Jagnathpur	Mongra Rural Pipe Water Supply Scheme	MVS	No FHTC. Water supply through tap stand only
56.	Paschim Singhbhum	Jaganna thpur	Patajaint	Pathajaint	Saraswatipur Rural Pipe Water Supply Scheme	MVS	Stand post is there in this village.
57.	Paschim Singhbhum	Manjhgaon	Parsa	Parsa	Majhgaon And Adjoining Village Rural Pipe Water Supply Scheme (DMFT)	MVS	No FHTC. Water supply through tap stand only
58.	Ramgarh	Dulmi	Potamdaga	Potamdaga	Potamdaga RWSS	MVS	Stand post is there in this village but water supply was not there on day of visit.
59.	Ranchi	Bundu	Taimara	Taimara	Taimara Rural Water Supply Scheme	SVS	No FHTC. Water supply through tap stand only
60.	Ranchi	Burmu	Ginjothakurgaon	Thakurgaon	Burmu Head Quarter And Adjoining Village RPWSS	MVS	No FHTC. Water supply through tap stand only
61.	Ranchi	Rahe	Lowahatu	Lowahatu	Pws Lowahatu	SVS	No FHTC. Water supply through tap stand only
62.	Sahibganj	Rajmahal	Pran Pur	Alampur	RPWSS East Tola Bazar Tola Udhawa	MVS	No FHTC. Water supply through tap stand only
63.	Sahibganj	Udhua	South Sarfarajganj	Sarfarajganj Part	Sahibganj Megha Water Supply Scheme	MVS	No FHTC. Water supply through tap stand only
64.	Sareikela And Kharsawan	Ichagarh	Leptatanr	Lepatanr	NCEF Adiwasi Tola	SVS	No FHTC. Water supply through tap stand only
65.	Sareikela And Kharsawan	Kuchai	Maranghatu	Jowajanji	Kuchai Block And Nearest Water Supply Scheme	MVS	No FHTC. Water supply through tap stand only
66.	Sareikela And	Kukdu	Pargama	Pargama	Mini PWS-Pargama	SVS	No FHTC. Water supply through tap stand

Functionality Assessment Survey 2020-21- Jharkhand

S. No.	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
	Kharsawan						only
67.	Sareikela And Kharsawan	Kukdu	Sirum	Berasi Sirum	Mini PWS-Sirum	SVS	No FHTC. Water supply through tap stand only
68.	Sareikela And Kharsawan	Nimdih	Chingra Panrkidih	Chatarma	NCEF Majh Kuli	SVS	No FHTC. Water supply through tap stand only
69.	Simdega	Bano	Simhatu	Katika	Mini Pws Scheme In St Tola Katika,Bakhala	SVS	No FHTC. Water supply through tap stand only
70.	Simdega	Pakartanr	Pakardanr	Kobang	MPWS Pakardanr Kobang	SVS	No FHTC. Water supply through tap stand only
71.	Simdega	Simdega	Bangru	Khunti Toli	MPWS Khunti Toli	SVS	No FHTC. Water supply through tap stand only

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	Type
1.	Dumka	Dumka	Darbarpur	Jhajahpara	Parsimla Rural Water Supply Scheme	MVS
2.	Hazaribag	Ichak	Prashi	Chhaoni	Prashi RPWSS	MVS
3.	Jamtara	Karmatanr	Karmatand	Karmatand	PWS Karmatanr	MVS
4.	Latehar	Barwadih	Chhipadohar	Chhipadohar	Rpws Aadim Janjati State Plan	MVS
5.	Pakur	Amrapara	Padarkola	Shaharghati	Solar Based RWSS Saharghati Paharia Tola (PTG)	SVS
6.	Ranchi	Khelari	Churi (South)	Churi	Khalari MVRPWSS	MVS

Annexure 4: Indicative proportion of functional tap connections by districts

S.No.	District	Percentage Functional Taps
1.	Bokaro	45.9
2.	Chatra*	26.7
3.	Deoghar	50.8
4.	Dhanbad	40.0
5.	Dumka*	9.8
6.	Garhwa*	0.0
7.	Giridih*	11.1
8.	Godda*	6.7
9.	Gumla	45.3
10.	Hazaribag*	73.2
11.	Jamtara	27.8
12.	Khuti	45.3
13.	Koderma	25.9
14.	Latehar*	28.9
15.	Lohardaga	16.1
16.	Pakur*	20.0
17.	Palamu	46.7
18.	Paschim Singhbhum*	56.7
19.	Purbi Singhbhum*	46.7
20.	Ramgarh	41.8
21.	Ranchi	12.6
22.	Sahibganj*	0.0
23.	Sareikela And Kharsawan	61.7
24.	Simdega	49.3

* 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 with failed water samples for Turbidity test				
1.	Dhanbad	Gobindpur	Ratanpur	Jiramuri
2.	Lohardaga	Kuru	Pandra	Pandra
3.	Paschim Singhbhum	Jagannathpur	Jagnathpur	Jagnathpur
4.	Ranchi	Rahe	Lowahatu	Lowahatu
5.	Sareikela And Kharsawan	Kukdu	Pargama	Pargama
Villages with failed water samples for pH test				
1.	Chatra	Hunterganj	Nawadih Panari	Nawadih Panari
2.	Chatra	Mayurhund	Soki	Cheri

Functionality Assessment Survey 2020-21- Jharkhand

S.No	District name	Block name	Gram panchayat name	Village name
3.	Dumka	Sikaripara	Maluti	Maluti
4.	Garhwa	Dhurki	Ambakhoreya	Paras Pani Kalan (Libra)
5.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd
6.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd
7.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd
8.	Jamtara	Narayanpur	Champa Pur	Sona Bad
9.	Latehar	Barwadih	Chhecha	Chhencha
10.	Lohardaga	Bhandra	Bhandra	Bhandra
11.	Pakur	Amrapara	Padarkola	Shaharghati
12.	Ranchi	Kanke	Chandwe	Dubliya Alias Dugliya
13.	Ranchi	Silli	Muri (East)	Muri
14.	Sareikela And Kharsawan	Gamharia	Rapcha	Musari Kudar
15.	Sareikela And Kharsawan	Kuchai	Maranghatu	Jowajanjir
Villages with failed water samples for Total Hardness test				
1.	Dumka	Dumka	Lakhikundi	Chorkata
Villages with failed water samples for Ammonia test				
1.	Chatra	Hunterganj	Nawadih Panari	Nawadih Panari
2.	Dumka	Dumka	Lakhikundi	Chorkata
3.	Garhwa	Ramkanda	Udaypur	Udaipur
4.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd
5.	Latehar	Bariatu	Shibla	Shibla
6.	Latehar	Chandwa	Sasang	Sanang
7.	Lohardaga	Kuru	Jima	Jima
8.	Lohardaga	Lohardaga	Harmu	Nadia
9.	Lohardaga	Senha	Senha	Senha
Villages with failed water samples for Phosphate test				
1.	Bokaro	Kasmar	Madhukarpur	Chandipur
2.	Dumka	Dumka	Lakhikundi	Chorkata
3.	Godda	Poreyahat	Ratanpur	Jagarnathpur
4.	Latehar	Chandwa	Chandwa West	Chandwa
5.	Lohardaga	Kuru	Jingi	Jonjro
6.	Ramgarh	Gola	Chokad	Chokad
Villages with failed water samples for Sulphate test				
1.	Garhwa	Dhurki	Ambakhoreya	Paras Pani Kalan (Libra)
Villages with failed water samples for Bacteriological present/ absence test using H2S vials				
1.	Chatra	Mayurhund	Soki	Cheri
2.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd
3.	Garhwa	Ramna	Bahiar Khurd	Bahiar Khurd

Functionality Assessment Survey 2020-21- Jharkhand

S.No	District name	Block name	Gram panchayat name	Village name
4.	Giridih	Birni	Mangheladih	Saranda
5.	Purbi Singhbhum	Golmuri Cum Jugsalai	North East Gadra	Gadra (Part)
6.	Ranchi	Burmu	Ginjothakurgaon	Thakurgaon
7.	Ranchi	Chanho	Beyasi	Beyasi
8.	Ranchi	Khelari	Churi (South)	Churi
9.	Ranchi	Mandar	Tangarbasuli	Tangarbasuli