

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

State report

Odisha



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

Report prepared by:
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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 Odisha the survey was conducted in 2442 households from 300 villages in 30 districts.

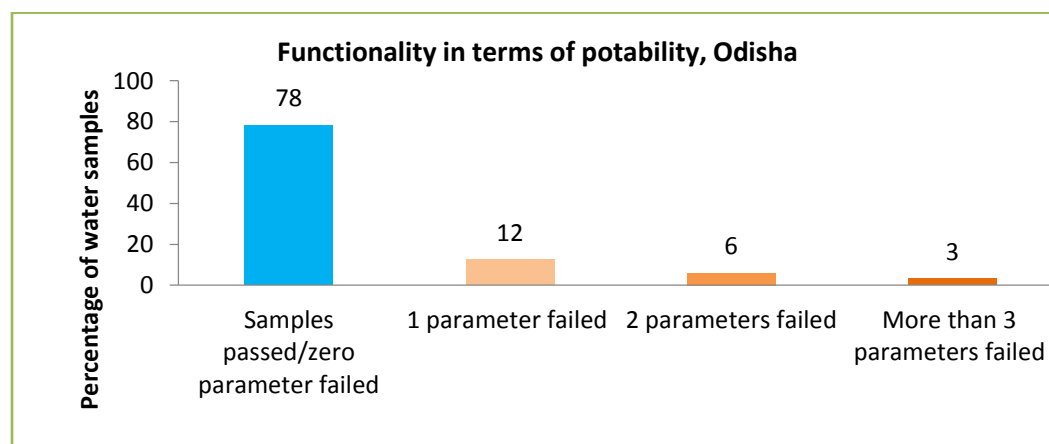
4. Key Findings

SL.	INDICATOR	Odisha	India
Household level			
1	Average household size	5.3	5.6
2	Percent of households using FHTC for drinking purpose	89.0	88.9
3	Percentage of households reported working tap connections (supply at least one day in last 7 days)	93.2	93.6
4	Number of water supply days in a usual week		
4a	1 – 2 days	1.5	7.6
4b	3 – 4 days	2.2	10.4
4c	5 – 6 days	0.7	1.5
4d	7 days	95.6	80.5
5	Number of water supply days in the last week		
5a	0 days	0.6	2.4
5b	1 – 2 days	3.6	9.7
5c	3 – 4 days	3.8	14.8
5d	5 – 6 days	4.4	4.9
5e	7 days	87.6	68.1
6	Percentage of households reporting reliability of water supply days	90.8	86.5
7	Percentage of households reporting tap connections functioning continuously for more than 15 days in a month for last 12 months	88.2	84.6
8	Average number of times water is supplied on the days of supply		
8a	1 time	52.1	56.6
8b	2 times	45.0	28.2
8c	3 times	2.5	6.1
8d	4 times/24 hours	0.4	9.1
9	Percentage of households reporting reliability of supply for different supply timings	89.1	84.3
10	Percentage of households reporting adequate water pressure for different supply timings		
10a	Morning	75.6	80.1
10b	Afternoon	82.7	84.6
10c	Evening	80.1	84.8
11	Percentage of households reported paying water tariff – separately or along with other taxes	28.7	52.8
12	Percentage of households reported receiving 55 lpcd or more	93.2	83.5
13	Percentage of households having potable water *	78.4	61.3
14	Percentage of households reporting regularity of supply	91.3	87.2
15	Percentage of households reporting functional tap connections	65.0	47.8
Village level			
16	Percentage villages having functional water and sanitation committees	14.3	48.5
17	Percentage of functional schemes in the sample villages considering all schemes (supplying water any day in the last 7 days)	87.2	86.0
18	Percentage of in-village schemes having O&M undertaken by village water	90.2	83.1

SL.	INDICATOR	Odisha	India
	and sanitation committee or by Panchayat		
19	Percentage of sample schemes reported having faced challenges in the last one year		
19a	Inadequate infrastructure	35.1	40.2
19b	Poor water availability at the source	16.6	33.0
19c	Poor maintenance	38.0	46.2
19d	Natural calamity	80.5	63.4
20	Percentage of schemes reporting measure to improve source sustainability	73.4	59.9
21	Number of sample villages found with no scheme (defunct/under construction/not handed over/not constructed)	70	751

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

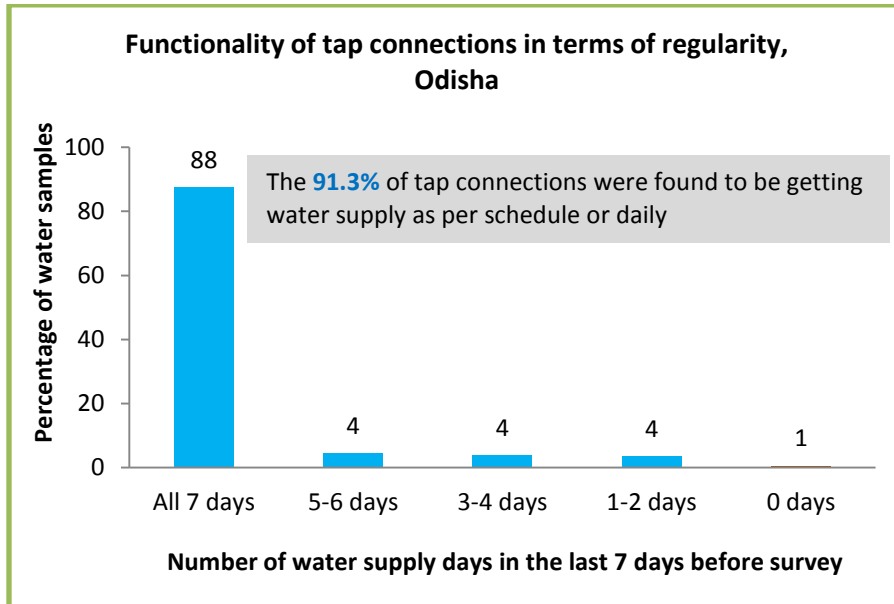
Fig 1: Functionality of the household tap connection in terms of potability - Odisha



Base: Households with water quality testing done, N: 185

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.

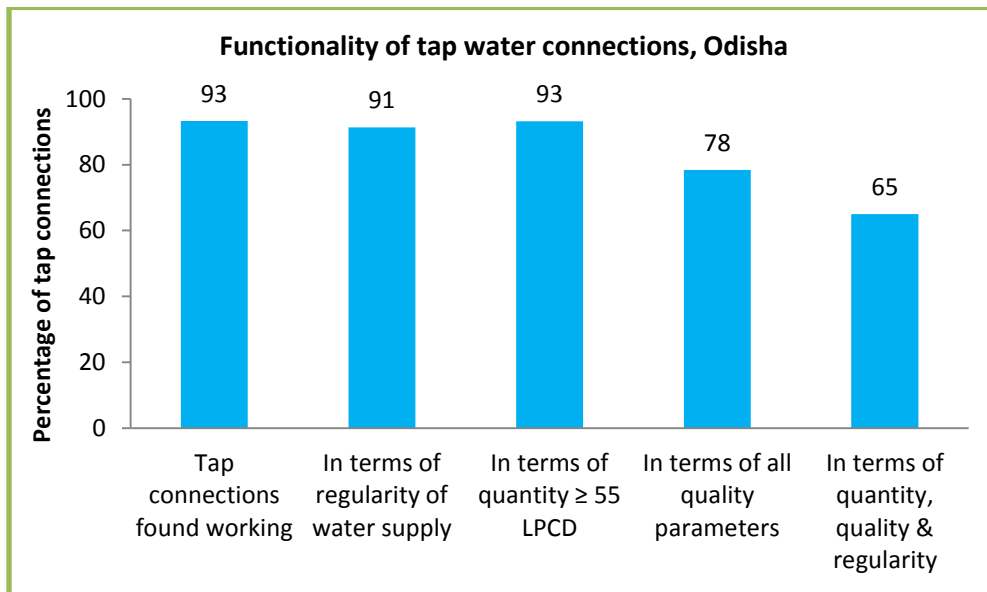
Fig 2: Functionality of the household tap connection in terms of regularity - Odisha



Base: All Households, N: 2442

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 - Odisha

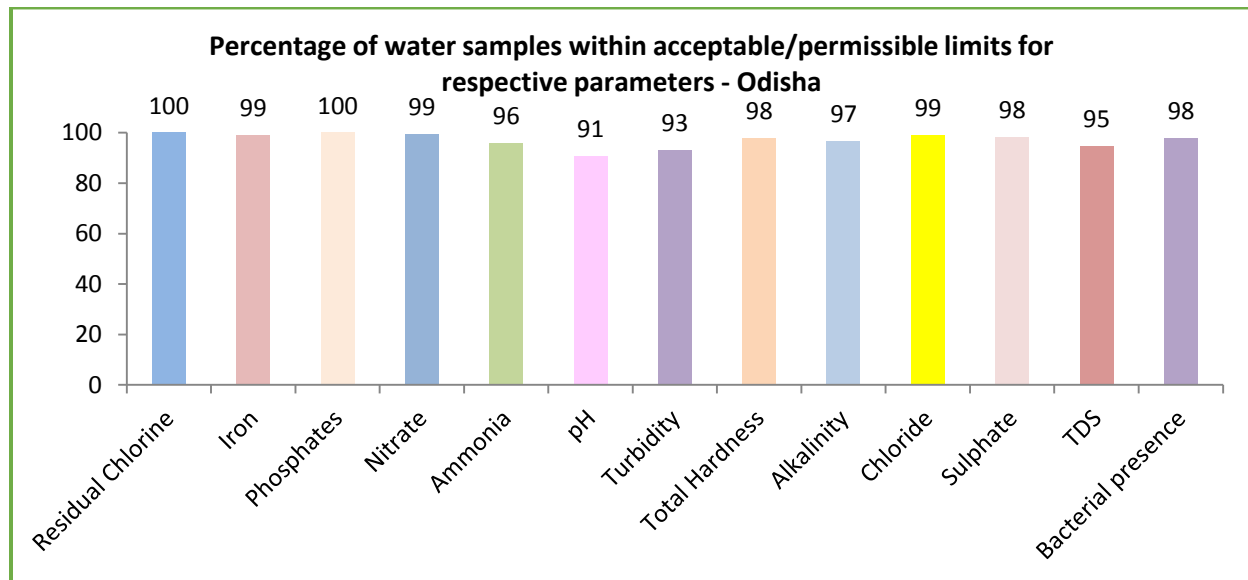


Base: Total count of tap connections considered for functionality assessment, N: 2375

A total of 185 water samples were tested as per BIS: 10,500 standards for all 13 parameters. 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% or more) had Residual Chlorine, Iron, Phosphates, Nitrate, Alkalinity, Chloride, Sulphate and Bacteriological (total coliform) tests were within acceptable/permissible limits. The key water quality issues were pH, Turbidity, TDS and Ammonia in 4 - 9 percent of the samples which were found beyond acceptable/permissible limits. Odisha is one of the few states, where the bacteriological absence was found in almost all samples.

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



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



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



5. Conclusions

Odisha has 65 percent functional tap connections and this is considerably above the national average. About 93 percent of the tap connections are estimated to be supplied with 55 lpcd or more water quantity and 91 percent of tap connections were found to be supplying water daily or as per schedule. Comparatively, the proportion of taps being provided with potable water supply (78.4%) is lower. 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 low proportions of taps being supplied with potable water. If the separate combinations of the functionality attributes are analyzed, it is seen that households having quantity and potability as per the JJM guidelines, as well as potability and regularity combinations are low (69.5% households having adequate quantity and potable water; 69.1% households having potable water received on a regular basis; while 86.8% households had adequate quantity of water supply on a regular basis). This analysis was however based on the number of schemes which were operational and water supplied through taps. In Odisha, almost a tenth of the schemes were not functional at the time of the survey. In another 65 villages, the schemes were supplied only through standposts at community level.

The key water quality issues were pH, Turbidity, TDS and Ammonia in 4 - 9 percent of the samples which were found beyond acceptable/ permissible limits. Odisha is one of the few states, where the bacteriological absence (total coliform) was found in almost all samples.

The proportion of households reporting currently working tap connections is high (95.7%) in Odisha. On an usual basis, almost 87 percent of the households have reported That water is supplied on a daily basis. Compared to the usual situation however, a much lower proportion (61.9%) have reported daily water supply in the last week before the survey date. However, almost all (93.3%) of the households have reported that water supply is reliable as per the scheduled days of supply.

On a usual basis, households have reported that water is supplied once a day (52.1%) or twice a day (45%). About 89 percent of the households have reported that water supply timings are reliable. The water pressure is reported to be adequate for over three fourths of the households during the morning water supply timing – while a higher proportion of households have reported adequacy of water pressure during afternoon and evening water supply timings. About 88 percent households have mentioned that they had received water supply on a continuous basis for 15 days a month for the last 12 months.

A low proportion of households (28.7%) have reported paying water tariff. 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.

Functional water and sanitation committees have been reported in only 14 percent villages, but wherever available, most (87.2%) have reported taking responsibility for operation and maintenance

activities of the PWS schemes. As reported by the communities 'natural calamities, poor maintenance and inadequate infrastructure' were the main challenges faced by the schemes. Almost three fourths of the schemes had taken some 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

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

S.No	Distri ct Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
1.	Angul	Banar pal	Kumanda	Kumanda	Kumanda Solar Base PWS	SVS	Scheme is defunct	No water supply in this village and no scheme work in this village. Village questionnaire not completed because GP sarpanch did not cooperate
2.	Angul	Pallah ara	Allori	Burubur a	PWS To Burbura	SVS	Under constructi on	Under construction
3.	Balan gir	Murib ahal	Chana Bahal	Karlaba hali	RPWS To Kurlubahal	SVS	Under constructi on	Under construction
4.	Balan gir	Titilag arh	Kholan	Gandha rgala	RPWS To Gandhargala	SVS	Scheme is defunct	Scheme is defunct
5.	Balas ore	Bahan aga	Boripada	Baripada	Bishnupur	MVS	No scheme	There is no piped water scheme in this village.
6.	Balas ore	Balas ore	Bardhanp ur	Bardha npur	PWS To Bardhanpur	SVS	Scheme is defunct	Scheme is defunct
7.	Balas ore	Baliap al	Kunduli	Kunduli	Nimapada	MVS	Scheme is defunct	Scheme is defunct
8.	Balas ore	Baliap al	Ratei	Bhanup ur	Suradiha	MVS	Scheme is defunct	Scheme is defunct
9.	Balas ore	Nilgiri	Garadihi	Badaka njama	Bankisahimahal	MVS	Scheme is defunct	Scheme is defunct
10.	Barga rh	Attabi ra	Lahanda	Lahanda	RPWS To Lahanda	SVS	Scheme is defunct	Scheme is defunct
11.	Barga rh	Barga rh	Baraguda	Barahag uda	Rpws To Barahaguda	SVS	Scheme is defunct	Not working for last 10 months due to pump failure
12.	Bhadra k	Bhadra k	Arnapal	Rajualib indha	Rajualibindha	SVS	Scheme is defunct	Scheme is defunct
13.	Bhadra k	Bhadra k	Sahada	Haripur	Haripur (Sahada) (Basudha)	SVS	Scheme is defunct	Scheme is defunct
14.	Bhadra k	Chand abali	Ghatpur	Hengupa ti	Hengupati	SVS	Scheme is defunct	Scheme is defunct

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S.No	Distri ct Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
15.	Bhadra k	Chand abali	Kaithakola	Purnapr asad	Kaithakola	MVS	Scheme is defunct	Scheme is defunct
16.	Boud h	Boud h	Badhigaon	Girasing a	Girasinga And Adj. Villages	MVS	Scheme is defunct	Defunct since June 2020
17.	Cutta ck	Cutta ck Sadar	Khandeita	Arad	PWS To Arada	SVS	Scheme is defunct	Scheme is defunct
18.	Cutta ck	Narasi nghpur	Jodumu	Odasing ha	PWS To Odasinga	MVS	Scheme is defunct	Scheme is defunct
19.	Cutta ck	Narasi nghpur	Regeda	Regeda	PWS To Regeda	SVS	Scheme is defunct	Scheme is defunct
20.	Debag arh	Barko te	Bamparad a	Bampar da	Solar PWS To Village Saruali	SVS	Scheme is defunct	Scheme is defunct
21.	Debag arh	Ream al	Lulang	Chingud ijharana	RPWS To Chingudijharan	SVS	Scheme is defunct	Scheme is defunct
22.	Debag arh	Ream al	Malehipad a	Malehip ada	PWS To Badkankarkhol	MVS	Scheme is defunct	Scheme is defunct
23.	Debag arh	Tileib ani	Sodo	Sodo	RPWS To Sodo	SVS	Scheme is defunct	Scheme is defunct
24.	Debag arh	Tileib ani	Tileibani	Bindapu r	PWS To Village Ramchandrapur	SVS	Scheme is defunct	Scheme is defunct
25.	Dhenk anal	Gondi a	Bega	Bega	Harizan Sahi	SVS	Scheme is defunct	Scheme is defunct
26.	Dhenk anal	Kanka dahad	Ghagaram unda	Gatarei	PWS To Village Gatarei	SVS	Scheme is defunct	Scheme is defunct
27.	Dhenk anal	Parjan g	Kandarsin ga	Kandars ingha	Girigiria Sahi	SVS	Scheme is defunct	Scheme is defunct
28.	Dhenk anal	Sadar	Tarava	Tarava	Tarava	SVS	Scheme is defunct	Scheme is defunct
29.	Gajap ati	Rayag ada	Sanatundi	Kaithap adar	Kaithapadara	SVS	Scheme is defunct	Scheme is defunct

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S.No	Distri ct Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
30.	Ganja m	Chikiti	Kotlingi	Kotilingi	PWS To Kotlingi	SVS	Scheme is defunct	Scheme is defunct
31.	Ganja m	Ganja m	Jharedi Radhagovi ndapur	Bandhat alanuagam	B.T.Nuagam	SVS	Scheme is defunct	Scheme is defunct
32.	Ganja m	Hinjilicut	Sikiri	Sikiri	Soalr Based PWS To Sikiri Hinjilipali Sahi	MVS	Scheme is defunct	Scheme is defunct
33.	Ganja m	Khallikote	Kanchana	Kanchana	PWS To Kanchana	SVS	Scheme is defunct	Scheme is defunct
34.	Ganja m	Patrapur	Samantiapalli	Bhimapur	Bhimapur	SVS	Scheme is defunct	Scheme is not functional since last 2 years
35.	Jagatsinghapur	Tirtol	Samantaraypur	Anupala	Samantaraypur And Pailo	MVS	Scheme is defunct	Scheme is defunct
36.	Jajpur	Dasarathpur	Biruhan	Biruhan	Biruhan (GPHQ Basudha)	SVS	Under construction	Scheme is under construction.
37.	Jajpur	Dhar masala	Sundaria	Sundaria	Sundaria (Solar)	SVS	Under construction	Pipeline work under construction
38.	Jharsuguda	Laikera	Laikera	Laikera	Improvement Of PWS To Village Laikera	SVS	Scheme is defunct	Scheme is defunct
39.	Jharsuguda	Lakhanpur	Panchagon	Bijapali	Beheraguda	SVS	No scheme	There is no piped water scheme in this village.
40.	Jharsuguda	Lakhanpur	Telenpali	Banharpali	RPWS To Banharpali (DMF)	SVS	No scheme	There is no piped water scheme in this village.
41.	Kalahandi	Bhawanipatna	Gurujung	Kholpala	Khalpola	SVS	No scheme	There is no piped water scheme in this village.
42.	Kalahandi	Kesinaga	Tundula	Bandhapada	Kantapada	SVS	Under construction	Under construction
43.	Kalahandi	Th.Rampur	Gopinathpur	Brahmanichanc	Brchancher	MVS	No scheme	There is no piped water scheme in this village.

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S.No	Distri ct Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
				hara				
44.	Kandh amal	K.Nua ngan	Adimaha	Situpaju	PWS To Adimaha And Adj Village	MVS	Scheme is defunct	Defunct since last 10 months
45.	Kendu jhar	Sahar apada	Sankhua	Sabaran ibeda	PWS To Sabaranibeda	SVS	Scheme is defunct	Problem with storage tank
46.	Khurd a	Begun ia	Simar	Kantam alim	Kantamalima	MVS	Scheme is defunct	Scheme is not functional since last 4 year
47.	Khurd a	Jatani	Kantia	Budhap ada	Budhapada & Niranjapur	MVS	No scheme	There is no piped water scheme in this village.
48.	Khurd a	Khord ha	Nandapur	Chhatra ma	Chhatrama	SVS	No scheme	There is no piped water scheme in this village.
49.	Korap ut	Dasa mant apur	Dumbagu da	Dumbag uda	Dumbaguda	SVS	Scheme is defunct	Scheme is not functional since last 9 months
50.	Malka ngiri	Chitra konda	Badapada r	Kamara guda	Spring Based Water Supply To Vill:Palasapadar	SVS	Scheme is defunct	Scheme is not functional since last 4 yeas
51.	Malka ngiri	Chitra konda	Chitrakon da	Chitrak onda	RPWS To Village: Lunch Ghat	MVS	Scheme is defunct	There is no water supply since last 2 years
52.	Malka ngiri	Malka ngiri	Goudagud a	Goudag uda	Construction Of 2000 Lt. Capacity Storage Based Stand Posts- 5 Nos	SVS	Scheme is defunct	There is no water supply since last 9 months due to pump being out of order
53.	Mayu rbhan j	Badsa hi	Sialighati	Sakua	PWS To Sakua	SVS	Scheme is defunct	Scheme is defunct
54.	Nuap ada	Baden	Babebir	Babebir	Palsada And Adj. Villages	MVS	Under constructi on	Under construction
55.	Nuap ada	Baden	Pharsar	Ambagu da	Palsada And Adj. Villages	MVS	Under constructi on	Under construction
56.	Nuap ada	Baden	Pharsar	Putupar a	Palsada And Adj. Villages	MVS	Under constructi on	Under construction

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S.No	Distri ct Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
57.	Nuapada	Kharia r	Badi	Badi	PWS To Badi (RIDF)	SVS	Under construction	Under construction
58.	Nuapada	Nuapada	Khutbanv eera	Chipajh ar	Patora And Adj.Villages	MVS	Under construction	Under construction
59.	Nuapada	Nuapada	Khutbanv eera	Karchul	Patora And Adj.Villages	MVS	Under construction	Under construction
60.	Puri	Delan g	Jenapur	Tolapad a	Jenapur (PWS)	MVS	No scheme	There is no piped water scheme in this village.
61.	Puri	Kanas	Bindhan	Harasap ada	Harasapada	MVS	No scheme	There is no piped water scheme in this village.
62.	Rayagada	Kalya nsing hpur	Sikarpai	Sikapai	PWS To Sikarpai	SVS	No scheme	There is no piped water scheme in this village.
63.	Rayagada	Muni guda	Raghubari	Raghub ari	PWS To Raghubari	SVS	Under construction	Under construction
64.	Sambalpur	Jujum ura	Baham	Padiaba hal	RPWS To Padiabahal	SVS	No scheme	There is no piped water scheme in this village.
65.	Sambalpur	Jujum ura	Kesapali	Kesapali	RPWS Keshapali	SVS	Scheme is defunct	There is no water supply since last 4 months due to leakage and disruption in power supply
66.	Sambalpur	Rairak hol	Bansajal	Helei	RPWS To Helei	SVS	No scheme	There is no piped water scheme in this village.
67.	Sambalpur	Renga li	Katarbaga	Katar- Baga	RPWS To Village Katarbaga	SVS	Scheme is defunct	There is no water supply since last 2 years
68.	Subar napur	Binka	Baun Suni	Phabsi	PWS To Village Baun Suni Phabsi Harijan Pada (Solar Dual Pump)	SVS	Under construction	Under construction
69.	Subar napur	Tarva	Kumbhar Munda	Raikeda	PWS To Village Raikeda New Basti (Solar Dual Pump)	SVS	Under construction	Under construction
70.	Sunda	Kuar	Kuarmund	Kuarmu	PWS To Village- Kuarmunda	MVS	Scheme is	Due to leakage in pipeline there was no water supply

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S.No	Distri ct Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
	rgarh	mund a	a	nda			defunct	to households last 2 months

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

S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
1.	Angul	Angul	Susuda	Ankula (Part)	PWS To Ankula	SVS	No FHTC. Water supply through tap stand only
2.	Angul	Banarpal	Talamul	Talambala Patana	PWS To Talamulpatna	SVS	No FHTC. Water supply through tap stand only
3.	Balangir	Deogaron	Salepali	Salepali	RPWS To Salepali	SVS	No FHTC water supply
4.	Bargarh	Attabira	Tope	Tope	RPWS To Bhursipali	SVS	No FHTC. Water supply through tap stand only
5.	Bargarh	Bargarh	Bardol	Dang	RPWS To Dang	SVS	No FHTC. Water supply through tap stand only
6.	Bargarh	Bhatli	Tejagola	Baulsingha	RPWS To Baulsingha	SVS	No FHTC. Water supply through tap stand only
7.	Bargarh	Bijepur	Bhatigaron	Badipali (Jo)	RPWS To Badimal	SVS	No FHTC. Water supply through tap stand only
8.	Bargarh	Bijepur	Talpadar	Talpadar	RPWS To Talpadar	SVS	No FHTC. Water supply through tap stand only
9.	Bhadrak	Basudebpur	Aruha	Tulamtula	Tulamtula	SVS	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.
10.	Bhadrak	Basudebpur	Gobindapur	Brajanandapur	Gobindpur	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.	Boudh	Kantamal	Rundi Mahal	Rundimahul	Rundimahul	SVS	No FHTC. Water supply through tap stand only
12.	Cuttack	Banki Damapara	Gobindapur	Gobindpur	PWS To Dulanpur	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.	Debagarh	Barkote	Kandhal	Bisibaliposi	RPWS To Bisibaliposi	SVS	Scheme is supplying water through tap stand. No tap connection to any households till now.
14.	Gajapati	Gosani	Machharama	Rajapur	Machamara Rajpur And Kantragada	MVS	No FHTC. Water supply through tap stand only
15.	Jagatsinghapur	Balikudra	Ichhapur	Mallikapur	Narilo-Naranpur	MVS	Tap stand available
16.	Jagatsinghapur	Biridi	Arana	Arana	Aug. PWS To Arana	SVS	Scheme is supplying water through tap stand. No tap connection to any households till now. We were not

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S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
							doing water quality test from stand post at that time.
17.	Jagatsinghpur	Jagatsinghpur	Taradapada	Patenigaon	Chandura	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.	Jagatsinghpur	Naugaoan	Galadhari	Galadari	Galadhari	SVS	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.	Jagatsinghpur	Raghatpur	Sadeipur	Sadeipur	Aug. PWS To Sadeipur	SVS	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.
20.	Jajpur	Bari	Balia	Balia	Balia	SVS	This village has stand post but we were not doing water test that time
21.	Jajpur	Bari	Mahakalpada	Mahakal Pada	Mahakalpada	SVS	This village has stand post but we were not doing water test that time
22.	Jajpur	Binjharpur	Jari	Jari	Jari	SVS	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.
23.	Jajpur	Rasulpur	Jabara	Sukadeipur	Sukadeipur (Harijan Sahi)	SVS	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.
24.	Jajpur	Rasulpur	Laxminagara	Krushnnagar	Krushnagar	SVS	This village has stand post but we were not doing water test that time
25.	Jajpur	Sukinda	Atta	Atta	Near G.P. Office	SVS	This village has stand post but we were not doing water test that time
26.	Jharsuguda	Lakhanpur	Attabira	Attabira	Dumerdhipa	SVS	This village has stand post but we were not doing water test that time
27.	Kalahandi	Bhawanipatna	Kamthana	Kamthana	Uditnarayanpur	SVS	No FHTC. Water supply through tap stand only
28.	Kalahandi	Kesinga	Balsi	Masanibandha	Balsi	MVS	No FHTC. Water supply through tap stand only
29.	Kandhamal	Khajuripada	Dutipada	Dutipara	PWS To Dutipada	SVS	No FHTC. Water supply through tap stand only
30.	Kandhamal	Phulban	Alami	Lengarasahi	Lengerisahi	MVS	No FHTC. Water supply through tap stand only

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S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
	mal	i					
31.	Kandhamal	Phulbani	Bisipada	Bisipara	Augmentation Of PWS To Bisipada	MVS	No FHTC. Water supply through tap stand only
32.	Kandhamal	Phulbani	Keredi	Dangulu	PWS To Dangulu And Nediguda	MVS	No FHTC. Water supply through tap stand only
33.	Kendrapara	Derabisi	Hariankana	Dakhinakhandabhol	RPWS To Dakhina Khandabhol	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.
34.	Kendrapara	Mashaghai	Garjanga	Badapal	RPWS To Badpal	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.
35.	Kendrapara	Pattamundai	Bilikana	Terohi	RPWS To Bilikana	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.
36.	Kendujhar	Joda	Bhuiamroida	Kolharaida	PWS To Kolharoida	SVS	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.
37.	Kendujhar	Patna	Murusan	Murusuan	PWS To Murusuan	SVS	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.
38.	Khurda	Bhubaneswar	Lingipur	Raghunathpur	Sisupalgarh	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.	Khurda	Bolgarh	Manibandha	Maniabandha	Manibandha	SVS	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.	Khurda	Khordha	Garhaladia	Basanta	Basanta - I	SVS	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.
41.	Khurda	Tangi	Kuhudi	Nizgarhkuhudi	Kuhudi	SVS	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.
42.	Koraput	Koraput	Umuri	Machhara-I	Machhara Dhepa Sahi (Stand Alone)	SVS	No FHTC. Water supply through tap stand only

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S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
43.	Malkangiri	Kalimela	Kangurukonda	Salmarikonda	RPWS To Village: Mpv-34	SVS	No FHTC. Water supply through tap stand only
44.	Mayurbhanj	Baripada	Rajabasa	Salbani	PWS To Rajabasa	MVS	No FHTC. Water supply through tap stand only
45.	Mayurbhanj	Betnoti	S.S. Nahandasole	S.S. Nahandasole	PWS To S.S. Nahandasole	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.
46.	Mayurbhanj	Betnoti	Sathilo	Sathilo	Sathilo (Mathasahi)	SVS	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.	Nayagarh	Bhapur	Baigunia	Baigunia	Baigunia	SVS	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.	Nayagarh	Daspalla	Madhyakhanda	Madhykhanda	Madhyakhanda	SVS	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.
49.	Nayagarh	Nayagarh	Biruda	Biruda	Biruda	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.
50.	Nayagarh	Nayagarh	Itamati	Itamati	Itamati	SVS	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.	Nayagarh	Nayagarh	Sinduria	Sundaria	Sundaria (Solar)	SVS	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.	Nayagarh	Odagaoan	Rabigadua	Kurumbankata	Kurumbankatara (Aug)	SVS	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.
53.	Puri	Gop	Gop	Kusupur	PWS To Kusupur	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.	Puri	Kakatpura	Kantapada	Kantapada	Kantapada (PWS)	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.

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S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
55.	Puri	Kanas	Sahupada	Bedhatandula	Sahupada	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.	Puri	Krushna prasad	Siandi	Anua	Titipa	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.
57.	Puri	Pipili	Rupadeipur	Rupdeipur	Rupadeipur	SVS	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.
58.	Rayagada	Kolanara	Therubali	Elengalpadu	PWS To Elegalpadu	SVS	No FHTC. Water supply through tap stand only
59.	Rayagada	Padmapur	Indupur	Indupur	PWS To Indupur	SVS	No FHTC. Water supply through tap stand only
60.	Rayagada	Padmapur	Tembaguda	Milkapanga	Dakarama	SVS	No FHTC. Water supply through tap stand only
61.	Sambalpur	Bamara	Gobindpur	Govindpur	Gobindpur Mainapada (NCEF)	SVS	This village has stand post only but due to pump breakdown, no water supply to stand post last 2 days
62.	Sambalpur	Jamankira	Jamankira	Jamankira	RPWS To Village Jamankira	SVS	This village has stand post only but due to power supply problem there was no water supply since last 7 days
63.	Subarnapur	Binka	Seledi	Tundupali	PWS To Vill- Tulundupali	SVS	Scheme is supplying water through tap stand. No tap connection to any households till now.
64.	Sundargarh	Boneigarh	Ruguda	Ruguda	PWS To Village - Ruguda (Vwsc)	SVS	This village has stand post only but due to pump breakdown, no water supply to stand post last 2 days
65.	Sundargarh	Hemgir	Duduka	Duduka	Duduka	SVS	This village has stand post only but due to power supply problem there was no water supply since last 3 days

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.	Boudh	Boudh	Brahamanpalli	Brahmanipali	Brahmanipali	SVS
2.	Jagatsinghapur	Ersama	Nuagaon	Nuagan	Gadakujanga	MVS
3.	Jagatsinghapur	Tirtol	Katara	Begunia	Begunia	MVS

Annexure 4: Indicative proportion of functional tap connections by districts

S.No	District	Percentage Functional Taps
1.	Angul	13.3
2.	Balangir	73.3
3.	Balasore	62.7
4.	Bargarh*	95.6
5.	Bhadrak	73.3
6.	Boudh	61.0
7.	Cuttack	68.9
8.	Debagarh*	33.3
9.	Dhenkanal	38.9
10.	Gajapati	77.5
11.	Ganjam	86.7
12.	Jagatsinghapur*	54.1
13.	Jajpur*	100.0
14.	Jharsuguda	65.6
15.	Kalahandi	60.0
16.	Kandhamal	81.3
17.	Kendrapara	54.3
18.	Kendujhar	58.1
19.	Khurda*	100.0
20.	Koraput	67.5
21.	Malkangiri	93.3
22.	Mayurbhanj	32.6
23.	Nabarangapur	85.3
24.	Nayagarh	81.7
25.	Nuapada	85.0
26.	Puri*	91.1
27.	Rayagada	71.7
28.	Sambalpur	23.3

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S.No	District	Percentage Functional Taps
29.	Subarnapur	62.2
30.	Sundargarh	42.9

* 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.	Angul	Chhendipada	Kamasala	Kampasala
2.	Debagarh	Tileibani	Kansar	Kansar
3.	Jharsuguda	Jharsuguda	Talpatia	Talpatia
4.	Jharsuguda	Kolabira	Parman Pur	Parmanpur
5.	Kendrapara	Mahakalapada	Mahakalapada	Maha Kala Para
6.	Kendrapara	Rajnagar	Balisahi Patana	Bardia
7.	Kendujhar	Champua	Rimuli	Taduabahal
8.	Mayurbhanj	Bahalda	Soso	Soso
9.	Mayurbhanj	Raruan	Budamara	Badamara
10.	Rayagada	Rayagada	Kothapeta	Kothapeta
11.	Sambalpur	Jujumura	Kukuda Pali	Kusanpuri
12.	Sambalpur	Rengali	Jhankarpali	Jhankarpali
13.	Sundargarh	Tangarpali	Jogimal	Jogimal
Villages with failed water samples for pH test				
1.	Angul	Pallahara	Nijagada	Subarnpali
2.	Angul	Pallahara	Khemla	Barokatia
3.	Balangir	Titilagarh	Naren	Sanpatrapali
4.	Boudh	Boudh	Talasarada	Talasarada
5.	Boudh	Kantamal	Kulata Jor	Fased
6.	Cuttack	Baramba	Muga Gahira	Mugagahir
7.	Debagarh	Reamal	Utunia	Utunia
8.	Debagarh	Tileibani	Kansar	Kansar
9.	Dhenkanal	Odapada	Kandabindha	Kandabindha
10.	Jharsuguda	Jharsuguda	Talpatia	Talpatia
11.	Kendrapara	Rajkanika	Barunadiha	Barunadia
12.	Kendujhar	Harichandanpur	Jiranga	Kundalpani
13.	Sambalpur	Jujumura	Kukuda Pali	Kusanpuri
14.	Sambalpur	Maneswar	Dhama	Dhama
15.	Sundargarh	Bisra	Santoshpur	Santoshpur
16.	Sundargarh	Boneigarh	Bonaigarh	Deogaon
17.	Sundargarh	Tangarpali	Jogimal	Jogimal
Villages with failed water samples for Total Hardness test				
1.	Angul	Pallahara	Khemla	Barokatia

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S.No.	District name	Block name	Gram panchayat name	Village name
2.	Kendrapara	Mahakalapada	Mahakalapada	Maha Kala Para
3.	Kendrapara	Rajnagar	Balisahi Patana	Bardia
4.	Mayurbhanj	Bahalda	Soso	Soso
Villages with failed water samples for Total Alkalinity test				
1.	Angul	Athamallik	Basudevpur	Basudevpur
2.	Angul	Kaniha	Burukuna	Gangadharpur
3.	Angul	Pallahara	Khemla	Barokatia
4.	Dhenkanal	Parjang	Sanda	Sanda
5.	Kendrapara	Rajnagar	Balisahi Patana	Bardia
6.	Mayurbhanj	Bisoi	Bisoi	Katas
Villages with failed water samples for Chloride test				
1.	Kendrapara	Mahakalapada	Mahakalapada	Maha Kala Para
2.	Sundargarh	Boneigarh	Bonaigarh	Bonaigarh
Villages with failed water samples for Ammonia test				
1.	Balasore	Baliapal	Dagara	Dagara
2.	Bhadrak	Basudebpur	Adhuan	Adhuan
3.	Dhenkanal	Kamakhyanagar	Kanapura	Jantaribola
4.	Kalahandi	Narla	Ghantamal	Ghantmal
5.	Kendujhar	Champua	Rimuli	Taduabahal
6.	Mayurbhanj	Bahalda	Soso	Soso
7.	Mayurbhanj	Raruan	Budamara	Badamara
8.	Subarnapur	Binka	Babu Pali	Babupali
Villages with failed water samples for Iron test				
1.	Sundargarh	Bisra	Santoshpur	Santoshpur
2.	Sundargarh	Tangarpali	Jogimal	Jogimal
Villages with failed water samples for Nitrate test				
1.	Sundargarh	Boneigarh	Bonaigarh	Bonaigarh
Villages with failed water samples for Sulphate test				
1.	Subarnapur	Binka	Charada	Charada
2.	Sundargarh	Boneigarh	Bonaigarh	Bonaigarh
3.	Sundargarh	Tangarpali	Jogimal	Jogimal
Villages with failed water samples for Total Dissolved Solids test				
1.	Angul	Athamallik	Basudevpur	Basudevpur
2.	Angul	Kaniha	Burukuna	Gangadharpur
3.	Angul	Pallahara	Khemla	Barokatia
4.	Boudh	Kantamal	Rundi Mahal	Rundimahul
5.	Dhenkanal	Parjang	Sanda	Sanda
6.	Kalahandi	Dharmagarh	Chhilpa	Chhilpa
7.	Kendrapara	Mahakalapada	Mahakalapada	Maha Kala Para
8.	Kendrapara	Rajnagar	Balisahi Patana	Bardia
9.	Mayurbhanj	Bahalda	Soso	Soso
10.	Sundargarh	Boneigarh	Bonaigarh	Bonaigarh

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S.No.	District name	Block name	Gram panchayat name	Village name
Villages with failed water samples for Bacteriological present/ absence test using H2S vials				
1.	Dhenkanal	Kamakhyanagar	Kanapura	Jantaribola
2.	Jagatsinghapur	Ersama	Balituhta.	Balituhta
3.	Mayurbhanj	Bahalda	Soso	Soso
4.	Mayurbhanj	Bisoi	Bisoi	Katas