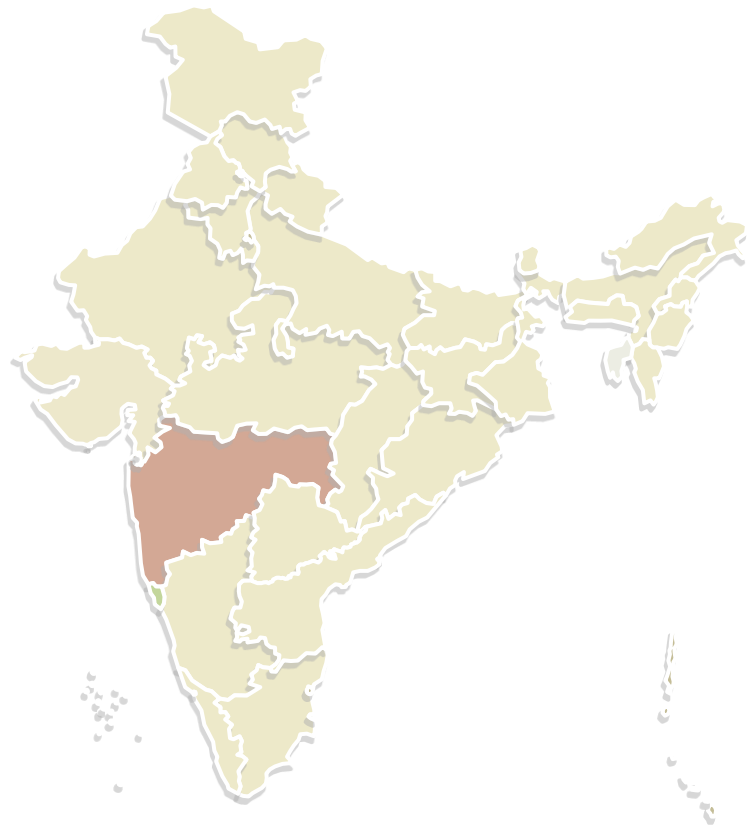


# Assessment of functionality status of household tap connections in rural areas (2020-21)

**State report**

**Maharashtra**



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

**Report prepared by:**  
**NIELSEN (INDIA) PRIVATE LIMITED**

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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 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 Maharashtra the survey was conducted in 4725 households from 340 villages in 34 districts.

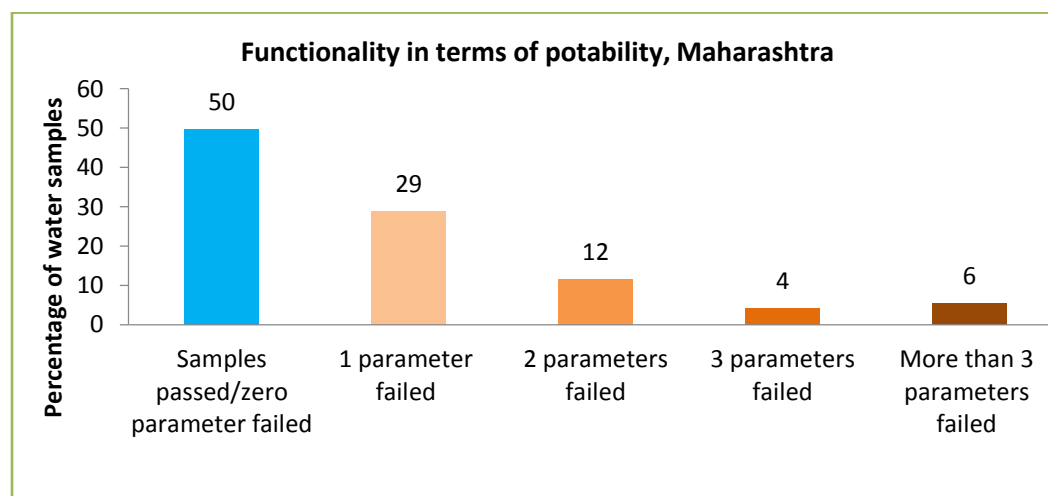
#### 4. Key Findings

SL.	INDICATOR	Maharashtra	India
<b>Household level</b>			
1	Average household size	5.2	5.6
2	Percent of households using FHTC for drinking purpose	81.4	88.9
3	Percentage of households reported working tap connections (supply at least one day in last 7 days)	98.5	93.6
4	Number of water supply days in a usual week		
4a	1 – 2 days	13.9	7.6
4b	3 – 4 days	28.3	10.4
4c	5 – 6 days	2.9	1.5
4d	7 days	54.9	80.5
5	Number of water supply days in the last week		
5a	0 days	2.4	2.4
5b	1 – 2 days	16.6	9.7
5c	3 – 4 days	32.4	14.8
5d	5 – 6 days	10.6	4.9
5e	7 days	37.9	68.1
6	Percentage of households reporting reliability of water supply days	76.3	86.5
7	Percentage of households reporting tap connections functioning continuously for more than 15 days in a month for last 12 months	76.5	84.6
8	Average number of times water is supplied on the days of supply		
8a	1 time	87.7	56.6
8b	2 times	6.1	28.2
8c	3 times	0.0	6.1
8d	4 times/24 hours	6.2	9.1
9	Percentage of households reporting reliability of supply for different supply timings	72.4	84.3
10	Percentage of households reporting adequate water pressure for different supply timings		
10a	Morning	75.8	80.1
10b	Afternoon	78.6	84.6
10c	Evening	81.2	84.8
11	Percentage of households reported paying water tariff – separately or along with other taxes	97.1	52.8
12	Percentage of households reported receiving 55 lpcd or more	71.1	83.5
13	Percentage of households having potable water *	49.7	61.3
14	Percentage of households reporting regularity of supply	78.6	87.2
15	Percentage of households reporting functional tap connections	29.0	47.8
<b>Village level</b>			
16	Percentage villages having functional water and sanitation committees	53.8	48.5
17	Percentage of functional schemes in the sample villages considering all schemes (supplying water any day in the last 7 days)	90.7	86.0
18	Percentage of in-village schemes having O&M undertaken by village water	97.2	83.1

SL.	INDICATOR	Maharashtra	India
	and sanitation committee or by Panchayat		
19	Percentage of sample schemes reported having faced challenges in the last one year		
19a	Inadequate infrastructure	44.5	40.2
19b	Poor water availability at the source	43.2	33.0
19c	Poor maintenance	42.4	46.2
19d	Natural calamity	84.3	63.4
20	Percentage of schemes reporting measure to improve source sustainability	74.1	59.9
21	Number of sample villages found with no scheme (defunct/under construction/not handed over/not constructed)	14	751

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

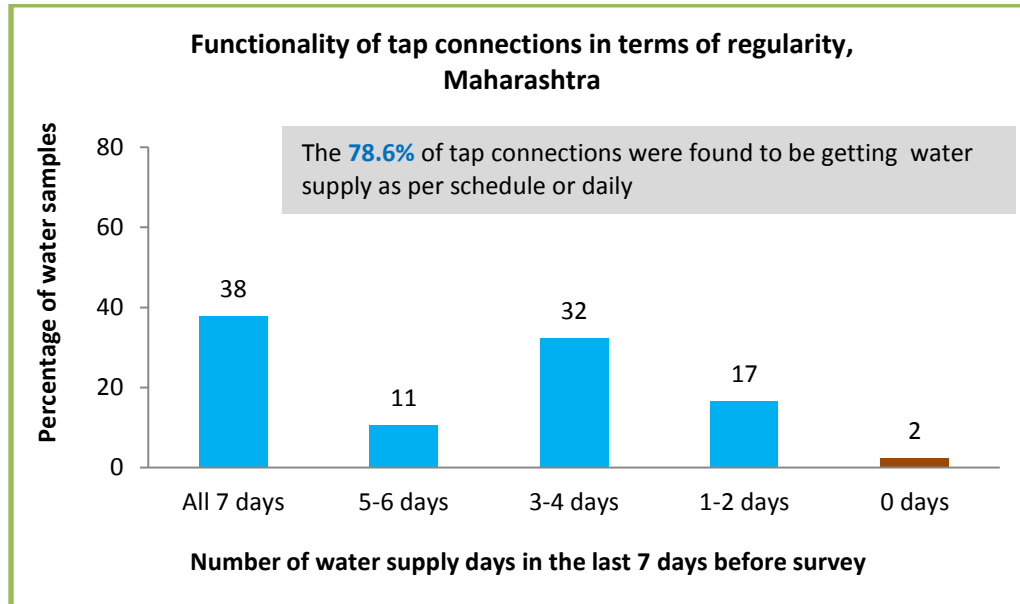
**Fig 1: Functionality of the household tap connection in terms of potability - Maharashtra**



**Base: Households with water quality testing done, N: 380**

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.

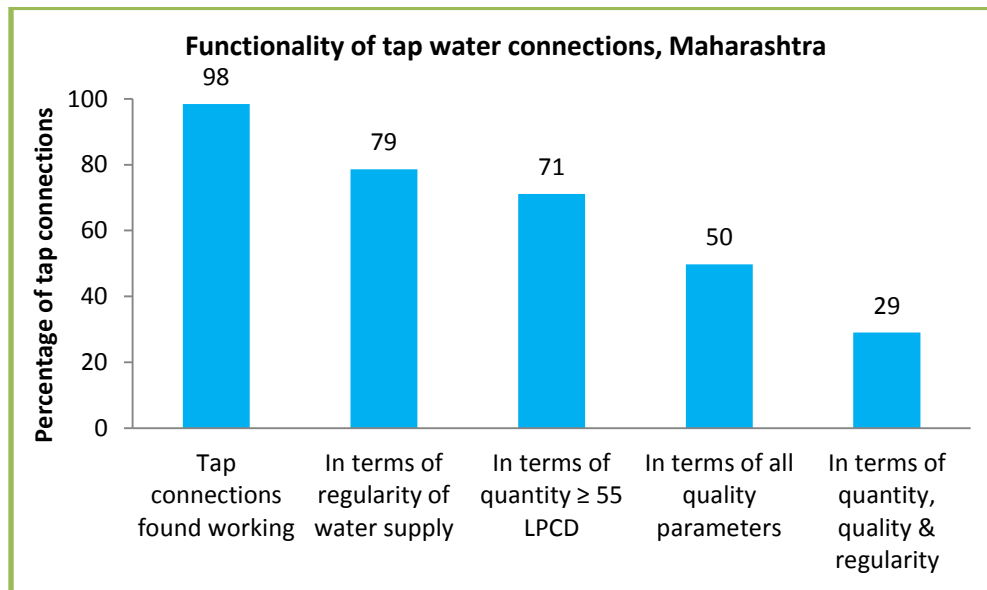
**Fig 2: Functionality of the household tap connection in terms of regularity - Maharashtra**



**Base: All Households, N: 4725**

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 - Maharashtra**

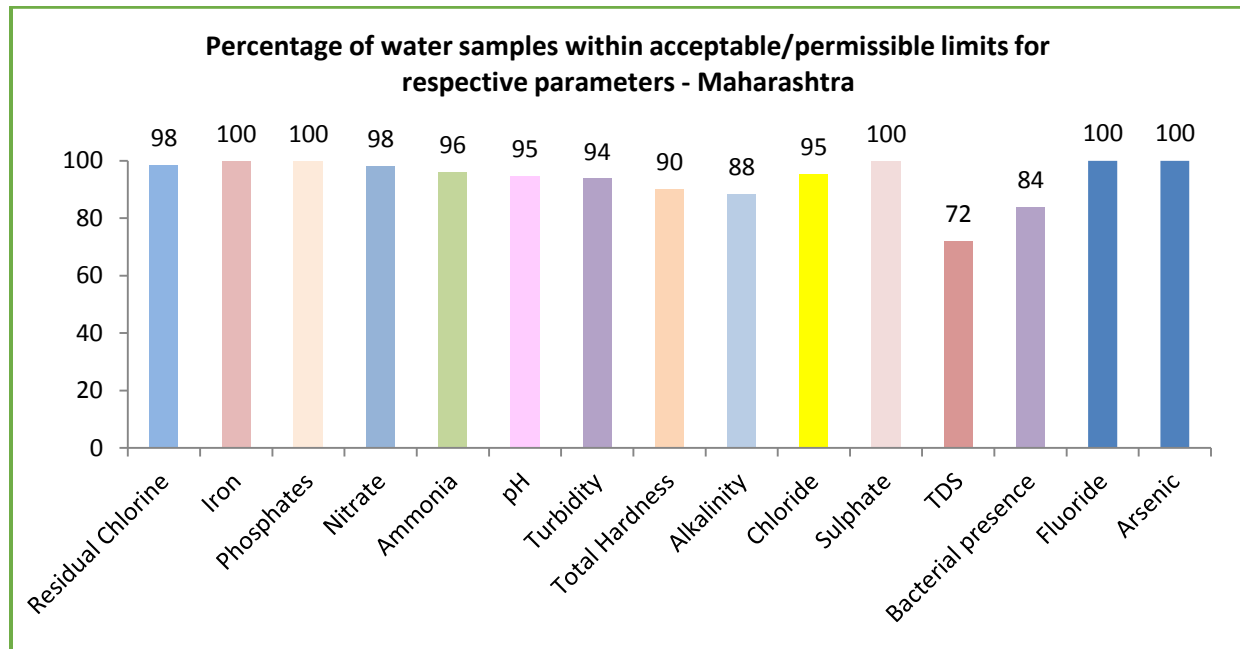


**Base: Total count of tap connections considered for functionality assessment, N: 4470**

A total of 380 water samples were tested as per BIS: 10,500 standards for all 15 parameters. Of these samples, 5 samples included testing for Fluoride and 3 samples for Arsenic. 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. Total hardness, pH, Turbidity, Ammonia, TDS, Bacterial presence (total coliform) and Alkalinity were the key issues. All samples tested for in fluoride affected villages and arsenic affected villages for Fluoride and Arsenic were not found to be within acceptable limits.

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



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



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





## 5. Conclusions

Maharashtra had very less functional tap connections (29.0%) as compared with the national average. A high proportion (71%) of tap connections are estimated to supply more than 55 lpcd or more water and about 79 percent of tap connections were found to be supplying water daily or as per schedule. However, the proportion of households receiving potable water is less - about 50 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 (34.9% households having adequate quantity and potable water; 41.7% households having potable water received on a regular basis; while 57.7% households had adequate quantity of water supply on a regular basis).

The main issues with the samples which were not found potable were Total hardness, pH, Turbidity, Ammonia, TDS, bacteriological (total coliform) presence and Alkalinity being above permissible limits.

The proportion of households reporting currently working tap connections in Maharashtra is high (98.5%). On a usual basis, almost 55 percent of the households have reported receiving water supply on a daily basis. Around 88 percent of the households have reported being supplied water once a day, and the rest, mostly twice a day. A majority of the households have reported a reliability of water supply timings as well as adequate water pressure. Almost all (97.1%) percent households have reported paying water tariff.

A little more than half of the villages have reported having water and sanitation committees – of these villages, in 97 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, inadequate infrastructure, poor water availability at source and poor maintenance' were the main challenges faced by the schemes. About three fourth 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,
- 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.	Akola	Patur	Andhar Sangvi	Andhar Sangvi	Nawegaon Village	MVS	Scheme is defunct	Scheme is defunct since 15 years
2.	Akola	Telhara	Dhonda Akhar	Karhi PR.Rupagad	PWS	SVS	No scheme	No scheme in village
3.	Beed	Beed	Umradjahangir	Umradjahangir	Umradjahangir W.S.S.	SVS	Scheme is defunct	Scheme is not functional since last 2 years
4.	Bhandara	Tumsar	Rongha	Rongha	Gobarwahi R R W S S	MVS	Scheme is defunct	Scheme is not functional since last 10 years
5.	Gadchiroli	Gadchiroli	Maregaon	Maregaon	Maregaon Pipe Water Supply Scheme	SVS	Scheme is defunct	Scheme is not functional since last 4 years
6.	Gondia	Sadak - Arjuni	Mhaswani	Mhaswani	Mhaswani PWS	SVS	Scheme is defunct	Scheme is not functional since last 3 years
7.	Hingoli	Basmath	Palsi	Palsi	Palshi WSS	SVS	Scheme is defunct	Scheme is not available because the groundwater sources have failed. Private borewell supply through atm.
8.	Jalna	Mantaha	Sonunkarwadi	Sonunkarwadi	176 Villages Grid RRWSS TQ Partur Mantha Jalna Dist Jalna	MVS	No scheme	Scheme not available in the village and stand post also not available. Households use only private dug wells and hand pump.
9.	Osmanabad	Washi	Sarola Washi	Sarola Washi	W.S.S. Sarola Washi	SVS	Scheme is defunct	Scheme is not functional since last 3 years
10.	Parbhani	Jintur	Bhosi	Bhosi	PWSS Bhosi	SVS	Scheme is defunct	Scheme is not functional since last 10 years
11.	Parbhani	Selu	Borgaon Jahagir	Borgaon Jahagir	Borgaon Jahagir - WS Scheme	SVS	Scheme is defunct	Scheme is not functional since last 2 years
12.	Thane	Shahapur	Dhamni	Jarandi	Z P School Talekhan	MVS	Scheme is defunct	MVS defunct 1 year ago. One other mini scheme in the village which provides water supply through stand post but this scheme also not functioning for last 6 month.

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S.No.	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
13.	Washim	Manora	Umari Kh.	Vasant Nagar	Solar Dual Pump Vasantnagar	SVS	Scheme is defunct	Scheme is not functional since last 4 years
14.	Washim	Risod	Mothegaon	Mothegaon	Anganwadi Water Supply Scheme Mothegaon 1	SVS	Scheme is defunct	Scheme is not functional since last 20 years

**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.	Akola	Patur	Alegaon	Alegaon	Alegaon Village	MVS	24 public tap stands
2.	Buldana	Buldana	Deulghat	Deulghat	Deulghat and Dhad 6 Villages R.R.W.S.S.	MVS	No FHTC. Water supply through tap stand only
3.	Hingoli	Aundha (Nagnath)	Rajdari	Rajdari	PWS Scheme Rajdari	SVS	No FHTC. Water supply through tap stand only
4.	Jalna	Ghansawangi	Ghonsi Bk	Ghonsi Bk	Ghonsi BK.1	SVS	No FHTC. Water supply through tap stand only
5.	Jalna	Jalna	Bhatepuri	Bhatepuri	Bhatepuri	SVS	No FHTC. Water supply through tap stand only
6.	Nanded	Deglur	Malegaon (M)	Malegaon (M)	15KM Away from Deglur	SVS	No FHTC. Water supply through tap stand only
7.	Nandurbar	Navapur	Malwan	Malvan	Melvan WSS	SVS	No FHTC. Water supply through tap stand only
8.	Osmanabad	Bhum	Warud	Burudwadi (N.V)	Warud W.S.S	MVS	No FHTC. Water supply through tap stand only
9.	Palghar	Dahanu	Osarveera	Osarvira	Badapokharan RPWSS	MVS	No FHTC. Water supply through tap stand only
10.	Palghar	Jawhar	Kortad	Kortad	Deheramedha	MVS	No FHTC. Water supply through tap stand only
11.	Satara	Patan	Rasati	Rasati	Rasati Dastan P W S S	SVS	No FHTC. Water supply through tap stand only

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

No villages are present where 15 FHTCs were not found.

### Annexure 4: Indicative proportion of functional tap connections by districts

S.No.	District	Percentage Functional Taps
1.	Ahmednagar	0.0
2.	Akola	4.0
3.	Amravati	26.4
4.	Aurangabad	42.2
5.	Beed	8.1
6.	Bhandara	22.2
7.	Buldana	51.1
8.	Chandrapur	44.0
9.	Dhule	0.0
10.	Gadchiroli	24.2
11.	Gondia	43.7
12.	Hingoli	17.9
13.	Jalgaon	24.7
14.	Jalna	37.1
15.	Kolhapur	22.7
16.	Latur	3.7
17.	Nagpur	0.0
18.	Nanded	68.1
19.	Nandurbar	0.0
20.	Nashik	32.7
21.	Osmanabad	6.7
22.	Palghar	0.0
23.	Parbhani	37.1
24.	Pune	50.0
25.	Raigad	82.2
26.	Ratnagiri	38.0
27.	Sangli	65.2
28.	Satara	88.1
29.	Sindhudurg	51.3
30.	Solapur	17.6
31.	Thane	24.4
32.	Wardha	16.0
33.	Washim	10.5
34.	Yavatmal	18.0

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

S.No.	District name	Block name	Gram panchayat name	Village name
<b>Villages with failed water samples for Turbidity test</b>				
1.	Akola	Murtijapur	Hirpur	Hirpur
2.	Amravati	Warud	Goregaon	Goregaon
3.	Bhandara	Mohadi	Rohna	Rohna
4.	Chandrapur	Chandrapur	Ghugus	Ghugus
5.	Dhule	Sakri	Dhamandhar	Dhamandhar
6.	Dhule	Sakri	Amali	Amali
7.	Gadchiroli	Armori	Kurandi Mal	Dongar Tamasi
8.	Gondia	Gondia	Khatiya	Khatiya
9.	Kolhapur	Karvir	Sonali	Sonali
10.	Latur	Chakur	Wadwal(Nagnath)	Wadwal(Nagnath)
11.	Latur	Jalkot	Rawankola	Rawankola
12.	Latur	Latur	Khandapur	Khandapur
13.	Latur	Nilanga	Badur	Badur
14.	Nagpur	Hingna	Dhanoli	Nawegaon
15.	Nagpur	Katol	Sonoli	Sonoli
16.	Nagpur	Narkhed	Sawargaon	Sawargaon
17.	Nagpur	Parseoni	Umari	Umari
18.	Solapur	Malshiras	Sangramnagar	Sangramnagar (Ct)
19.	Wardha	Wardha	Barbadi	Barbadi
20.	Washim	Mangrulpir	Wanoja	Wanoja
21.	Yavatmal	Arni	Jawala	Jawala
22.	Yavatmal	Ghatanji	Kopari (Chi)	Kopari (Chi)
23.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
24.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
<b>Villages with failed water samples for pH test</b>				
1.	Dhule	Sakri	Dhamandhar	Dhamandhar
2.	Dhule	Sakri	Amali	Amali
3.	Dhule	Sakri	Amali	Amali
4.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
5.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
6.	Dhule	Sindkhede	Kanchanpur	Kanchanpur
7.	Dhule	Sindkhede	Chimthane	Chimthane
8.	Dhule	Sindkhede	Chimthane	Chimthane
9.	Gondia	Gondia	Sahespur	Sahespur
10.	Nagpur	Umred	Champa	Champa
11.	Nandurbar	Akkalkuwa	Korai	Korai
12.	Nandurbar	Navapur	Malwan	Malvan
13.	Nandurbar	Shahada	Bhongra	Bhongra
14.	Nandurbar	Shahada	Lonkheda	Lonkheda
15.	Nandurbar	Shahada	Lonkheda	Lonkheda

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S.No.	District name	Block name	Gram panchayat name	Village name
16.	Nandurbar	Shahada	Vadali	Vadali
17.	Nandurbar	Shahada	Torkheda	Torkheda
18.	Nandurbar	Shahada	Torkheda	Torkheda
19.	Palghar	Palghar	Mahim	Haranwadi
20.	Satara	Patan	Rasati	Rasati
<b>Villages with failed water samples for Total Hardness test</b>				
1.	Akola	Akola	Katyar	Katyar
2.	Akola	Akot	Jalgaon Nahate	Jalgaon Nahate
3.	Akola	Balapur	Vyalla	Vyalla
4.	Akola	Balapur	Vyalla	Vyalla
5.	Akola	Balapur	Vyalla	Vyalla
6.	Akola	Balapur	Vyalla	Vyalla
7.	Akola	Balapur	Barlinga	Barlinga
8.	Amravati	Morshi	Patur	Patur
9.	Amravati	Teosa	Dehani	Dehani
10.	Bhandara	Lakhandur	Chicholi	Antargaon (Kha)
11.	Bhandara	Lakhandur	Bothali	Bothali
12.	Buldana	Khamgaon	Shirasgaon Deshmukh	Shirasgaon Deshmukh
13.	Gondia	Gondia	Gangazari	Gangazari
14.	Gondia	Gondia	Sahespur	Sahespur
15.	Nagpur	Katol	Sonoli	Sonoli
16.	Nagpur	Katol	Sonoli	Sonoli
17.	Nagpur	Narkhed	Banor (Chandra)	Banor
18.	Nagpur	Savner	Gadmi	Pendhari
19.	Nagpur	Savner	Borujwada	Borujwada
20.	Nanded	Bhokar	Borgaon	Borgaon
21.	Nandurbar	Shahada	Bhongra	Bhongra
22.	Nandurbar	Shahada	Lonkheda	Lonkheda
23.	Nandurbar	Shahada	Lonkheda	Lonkheda
24.	Nandurbar	Shahada	Vadali	Vadali
25.	Nandurbar	Shahada	Vadali	Vadali
26.	Nandurbar	Shahada	Torkheda	Torkheda
27.	Nandurbar	Shahada	Torkheda	Torkheda
28.	Nashik	Baglan	Morane Sandas	Morane Sandas
29.	Nashik	Dindori	Pimpalgaon Ketki	Pimpalgaon Ketaki
30.	Palghar	Palghar	Mahim	Haranwadi
31.	Palghar	Palghar	Mathane	Mathane
32.	Wardha	Wardha	Barbadi	Barbadi
33.	Washim	Karanja	Inza	Inza
34.	Washim	Mangrulpir	Wanoja	Wanoja
35.	Yavatmal	Arni	Jawala	Jawala
36.	Yavatmal	Ghatanji	Kopari (Chi)	Kopari (Chi)

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S.No.	District name	Block name	Gram panchayat name	Village name
37.	Yavatmal	Maregaon	Hatwanjri	Hatwanjri
38.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
<b>Villages with failed water samples for Total Alkalinity test</b>				
1.	Ahmednagar	Jamkhed	Kharda	Kharda
2.	Ahmednagar	Kopargaon	Mahegaon Deshmukh	Mahegaon Deshmukh
3.	Ahmednagar	Rahuri	Vambori	Vambori
4.	Ahmednagar	Rahuri	Vambori	Vambori
5.	Ahmednagar	Shevgaon	Shahartakli	Shahar Takali
6.	Akola	Akola	Katyar	Katyar
7.	Akola	Balapur	Vyalla	Vyalla
8.	Akola	Barshitakli	Punoti Bk.	Punoti Bk.
9.	Amravati	Morshi	Patur	Patur
10.	Chandrapur	Chandrapur	Ghugus	Ghugus
11.	Dhule	Dhule	Ner	Nurnagar
12.	Dhule	Sakri	Dhamandhar	Dhamandhar
13.	Dhule	Sakri	Amali	Amali
14.	Dhule	Sakri	Tamaswadi	Tamaswadi
15.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
16.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
17.	Dhule	Sindkhede	Kanchanpur	Kanchanpur
18.	Gondia	Tirora	Gangla	Gangla
19.	Latur	Udgir	Kaulkhed	Kaulkhed
20.	Nagpur	Savner	Gadmi	Pendhari
21.	Nandurbar	Akkalkuwa	Korai	Korai
22.	Nandurbar	Shahada	Bhongra	Bhongra
23.	Nandurbar	Shahada	Sarangkheda	Sarangkheda
24.	Nandurbar	Shahada	Sarangkheda	Sarangkheda
25.	Nandurbar	Shahada	Sarangkheda	Sarangkheda
26.	Nandurbar	Shahada	Prakasha	Prakasha
27.	Nandurbar	Shahada	Prakasha	Prakasha
28.	Nandurbar	Shahada	Prakasha	Prakasha
29.	Nandurbar	Shahada	Prakasha	Prakasha
30.	Nandurbar	Shahada	Kavalith	Kawlith
31.	Nandurbar	Shahada	Lonkheda	Lonkheda
32.	Nandurbar	Shahada	Vadali	Vadali
33.	Nandurbar	Shahada	Torkheda	Torkheda
34.	Nandurbar	Shahada	Torkheda	Torkheda
35.	Osmanabad	Lohara	Kanegaon	Kanegaon
36.	Osmanabad	Tuljapur	Borgaon	Borgaon
37.	Palghar	Palghar	Dhuktan	Dhuktan
38.	Palghar	Palghar	Mahim	Haranwadi
39.	Palghar	Palghar	Khairapada	Khaira

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S.No.	District name	Block name	Gram panchayat name	Village name
40.	Palghar	Palghar	Mathane	Mathane
41.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
42.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
43.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
44.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
<b>Villages with failed water samples for Chloride test</b>				
1.	Akola	Akola	Katyar	Katyar
2.	Dhule	Dhule	Ner	Nurnagar
3.	Dhule	Sakri	Amali	Amali
4.	Dhule	Sakri	Amali	Amali
5.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
6.	Dhule	Sindkhede	Chimthane	Chimthane
7.	Jalgaon	Chopda	Vadhode	Vadhode
8.	Nandurbar	Shahada	Bhongra	Bhongra
9.	Nandurbar	Shahada	Torkheda	Torkheda
10.	Nandurbar	Shahada	Torkheda	Torkheda
11.	Palghar	Palghar	Mahim	Haranwadi
12.	Palghar	Palghar	Mathane	Mathane
13.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
14.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
15.	Pune	Haveli	Wagholi	Wagholi
16.	Wardha	Deoli	Bhidi	Bhidi
17.	Wardha	Hinganghat	Wela	Wela
18.	Wardha	Wardha	Barbadi	Barbadi
<b>Villages with failed water samples for Ammonia test</b>				
1.	Amravati	Achalpur	Nimdari	Nimdari
2.	Amravati	Chikhaldara	Makhala	Makhala
3.	Amravati	Teosa	Dehani	Dehani
4.	Dhule	Sakri	Dhamandhar	Dhamandhar
5.	Dhule	Sakri	Amali	Amali
6.	Dhule	Sakri	Amali	Amali
7.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
8.	Dhule	Sindkhede	Kanchanpur	Kanchanpur
9.	Gadchiroli	Armorli	Kurandi Mal	Dongar Tamasi
10.	Hingoli	Hingoli	Jamrun Andh	Jamrun Andh
11.	Hingoli	Kalamnuri	Jatalwadi	Jatalwadi
12.	Hingoli	Kalamnuri	Akhada Balapur	Akhada Balapur
13.	Nagpur	Savner	Gadmi	Pendhari
14.	Nandurbar	Navapur	Malwan	Malvan
15.	Washim	Mangrulpir	Wanoja	Wanoja
<b>Villages with failed water samples for Phosphate test</b>				
1.	Amravati	Morshi	Patur	Patur



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S.No.	District name	Block name	Gram panchayat name	Village name
<b>Villages with failed water samples for Residual Chlorine test</b>				
1.	Chandrapur	Chandrapur	Ghugus	Ghugus
2.	Gadchiroli	Armori	Wairagad	Wairagad
3.	Hingoli	Sengaon	Pankanhergaon	Pankanhergaon
4.	Latur	Chakur	Wadwal(Nagnath)	Wadwal(Nagnath)
5.	Nashik	Dindori	Pimpalgaon Ketki	Pimpalgaon Ketaki
6.	Wardha	Seloo	Ridhora	Tamaswada
<b>Villages with failed water samples for Iron test</b>				
1.	Washim	Manora	Singdoh	Singdoh
<b>Villages with failed water samples for Nitrate test</b>				
1.	Akola	Akola	Katyar	Katyar
2.	Akola	Balapur	Barlinga	Barlinga
3.	Dhule	Sakri	Dhamandhar	Dhamandhar
4.	Nandurbar	Shahada	Vadali	Vadali
5.	Nashik	Dindori	Pimpalgaon Ketki	Pimpalgaon Ketaki
6.	Nashik	Nandgaon	Satane	Satane
7.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
<b>Villages with failed water samples for Sulphate test</b>				
1.	Akola	Akola	Katyar	Katyar
<b>Villages with failed water samples for Total Dissolved Solids test</b>				
1.	Ahmednagar	Jamkhed	Kharda	Kharda
2.	Ahmednagar	Kopargaon	Mahegaon Deshmukh	Mahegaon Deshmukh
3.	Ahmednagar	Nagar	Nav Nagapur	Nav Nagapur
4.	Ahmednagar	Nevasa	Kukana	Kukana
5.	Ahmednagar	Parner	Takali Dhokeshwar	Takali Dhokeshwar
6.	Ahmednagar	Parner	Takali Dhokeshwar	Takali Dhokeshwar
7.	Ahmednagar	Parner	Takali Dhokeshwar	Takali Dhokeshwar
8.	Ahmednagar	Rahata	Pimpalwadi	Pimpalwadi
9.	Ahmednagar	Rahuri	Vambori	Vambori
10.	Ahmednagar	Rahuri	Vambori	Vambori
11.	Ahmednagar	Sangamner	Mandve Bk	Mandave Bk.
12.	Ahmednagar	Shevgaon	Shahartakli	Shahar Takali
13.	Ahmednagar	Shrirampur	Khirdi	Khirdi
14.	Akola	Akola	Katyar	Katyar
15.	Akola	Balapur	Vyalla	Vyalla
16.	Akola	Balapur	Vyalla	Vyalla
17.	Akola	Balapur	Vyalla	Vyalla
18.	Akola	Balapur	Vyalla	Vyalla
19.	Akola	Balapur	Barlinga	Barlinga
20.	Beed	Patoda	Muggaon	Muggaon
21.	Bhandara	Lakhandur	Chicholi	Antargaon (Kha)
22.	Bhandara	Lakhandur	Bothali	Bothali

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S.No.	District name	Block name	Gram panchayat name	Village name
23.	Bhandara	Tumsar	Lobhi	Lobhi
24.	Dhule	Dhule	Ner	Nurnagar
25.	Dhule	Sakri	Dhamandhar	Dhamandhar
26.	Dhule	Sakri	Amali	Amali
27.	Dhule	Sakri	Amali	Amali
28.	Dhule	Sakri	Tamaswadi	Tamaswadi
29.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
30.	Dhule	Sindkhede	Chimthane	Dalwade P.S.
31.	Dhule	Sindkhede	Kanchanpur	Kanchanpur
32.	Dhule	Sindkhede	Chimthane	Chimthane
33.	Dhule	Sindkhede	Chimthane	Chimthane
34.	Gondia	Gondia	Gangazari	Gangazari
35.	Gondia	Gondia	Sahespur	Sahespur
36.	Jalgaon	Chopda	Vadhode	Vadhode
37.	Nanded	Bhokar	Borgaon	Borgaon
38.	Nandurbar	Akkalkuwa	Korai	Korai
39.	Nandurbar	Navapur	Malwan	Malwan
40.	Nandurbar	Shahada	Bhongra	Bhongra
41.	Nandurbar	Shahada	Bhagapur	Bhagapur
42.	Nandurbar	Shahada	Sarangkheda	Sarangkheda
43.	Nandurbar	Shahada	Sarangkheda	Sarangkheda
44.	Nandurbar	Shahada	Sarangkheda	Sarangkheda
45.	Nandurbar	Shahada	Prakasha	Prakasha
46.	Nandurbar	Shahada	Prakasha	Prakasha
47.	Nandurbar	Shahada	Prakasha	Prakasha
48.	Nandurbar	Shahada	Prakasha	Prakasha
49.	Nandurbar	Shahada	Kavalith	Kawlith
50.	Nandurbar	Shahada	Lonkheda	Lonkheda
51.	Nandurbar	Shahada	Lonkheda	Lonkheda
52.	Nandurbar	Shahada	Vadali	Vadali
53.	Nandurbar	Shahada	Vadali	Vadali
54.	Nandurbar	Shahada	Torkheda	Torkheda
55.	Nandurbar	Shahada	Torkheda	Torkheda
56.	Nashik	Baglan	Morane Sandas	Morane Sandas
57.	Nashik	Dindori	Pimpalgaon Ketki	Pimpalgaon Ketaki
58.	Osmanabad	Lohara	Kanegaon	Kanegaon
59.	Osmanabad	Tuljapur	Borgaon	Borgaon
60.	Osmanabad	Tuljapur	Nandgaon	Nandgaon
61.	Osmanabad	Tuljapur	Nandgaon	Nandgaon
62.	Osmanabad	Umarga	Jakekurwadi	Jakekurwadi
63.	Palghar	Dahanu	Osarveera	Osarvira
64.	Palghar	Dahanu	Kolavali Dedale	Dedale

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S.No.	District name	Block name	Gram panchayat name	Village name
65.	Palghar	Dahanu	Kolavali Dedale	Dedale
66.	Palghar	Dahanu	Chinchani	Chinchani
67.	Palghar	Dahanu	Chinchani	Chinchani
68.	Palghar	Jawhar	Kortad	Kortad
69.	Palghar	Palghar	Dhuktan	Dhuktan
70.	Palghar	Palghar	Dhuktan	Dhuktan
71.	Palghar	Palghar	Dhuktan	Dhuktan
72.	Palghar	Palghar	Dhuktan	Dhuktan
73.	Palghar	Palghar	Mahim	Haranwadi
74.	Palghar	Palghar	Khairapada	Khaira
75.	Palghar	Palghar	Boisar	Boisar
76.	Palghar	Palghar	Boisar	Boisar
77.	Palghar	Palghar	Boisar	Boisar
78.	Palghar	Palghar	Boisar	Boisar
79.	Palghar	Palghar	Mathane	Mathane
80.	Palghar	Wada	Kudus	Kudus
81.	Palghar	Wada	Kudus	Kudus
82.	Pune	Daund	Boripardhi	Boripardhi
83.	Pune	Daund	Boripardhi	Boripardhi
84.	Pune	Daund	Boripardhi	Boripardhi
85.	Pune	Daund	Boripardhi	Boripardhi
86.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
87.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
88.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
89.	Pune	Haveli	Kadamwakwasti	Kadamwak Wasti
90.	Pune	Haveli	Wagholi	Wagholi
91.	Pune	Haveli	Wagholi	Wagholi
92.	Pune	Velha	Nigade Mose	Nigade Mose
93.	Thane	Bhiwandi	Bapgaon	Devrung
94.	Thane	Bhiwandi	Dapode	Dapode
95.	Thane	Bhiwandi	Khoni	Khoni
96.	Thane	Murbad	Pawale	Pawale
97.	Thane	Shahapur	Shirol	Shirol
98.	Thane	Shahapur	Shirol	Shirol
99.	Thane	Shahapur	Kasara Kh	Kasara Bk
100.	Wardha	Deoli	Bhidi	Bhidi
101.	Wardha	Hinganghat	Wela	Wela
102.	Wardha	Wardha	Barbadi	Barbadi
103.	Washim	Mangrulpir	Wanoja	Wanoja
104.	Yavatmal	Kelapur	Khairgaon Bk	Muchi
105.	Yavatmal	Kelapur	Mohadari	Mohadari
106.	Yavatmal	Maregaon	Hatwanjri	Hatwanjri

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S.No.	District name	Block name	Gram panchayat name	Village name
107.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
<b>Villages with failed water samples for Bacteriological present/ absence test using H2S vials</b>				
1.	Akola	Barshitakli	Punoti Bk.	Punoti Bk.
2.	Akola	Murtijapur	Hirpur	Hirpur
3.	Akola	Patur	Alegaon	Alegaon
4.	Amravati	Chikhaldara	Somthana Kh.	Somthana Kh.
5.	Amravati	Morshi	Dabheri	Dabheri
6.	Amravati	Morshi	Patur	Patur
7.	Beed	Manjlegaon	Nitrud	Anadwadi (N.V.)
8.	Bhandara	Lakhandur	Chicholi	Antargaon (Kha)
9.	Bhandara	Lakhandur	Bothali	Bothali
10.	Bhandara	Lakhandur	Dambeviri	Dambeviri
11.	Bhandara	Mohadi	Rohna	Rohna
12.	Bhandara	Pauni	Tirri	Tirri
13.	Bhandara	Tumsar	Asalpani	Asalpani
14.	Bhandara	Tumsar	Lobhi	Lobhi
15.	Buldana	Mehkar	Sonargavhan	Panchala
16.	Chandrapur	Mul	Naleshwar	Naleshwar
17.	Dhule	Dhule	Ranmala	Ranmala
18.	Dhule	Sindkhede	Chimthane	Chimthane
19.	Dhule	Sindkhede	Chimthane	Chimthane
20.	Gadchiroli	Chamorshi	Maler Mal	Maler Mal
21.	Gadchiroli	Chamorshi	Bhendala	Bhendala
22.	Gadchiroli	Chamorshi	Maroda	Maroda
23.	Gadchiroli	Gadchiroli	Ambeshivani	Ambeshivani
24.	Gondia	Tirora	Gangla	Gangla
25.	Jalgaon	Bhusawal	Sunasgaon	Gombhi
26.	Jalgaon	Bhusawal	Sunasgaon	Gombhi
27.	Jalgaon	Bhusawal	Susari	Susari
28.	Jalgaon	Bhusawal	Susari	Susari
29.	Jalgaon	Erandol	Galapur	Mukhpat
30.	Jalgaon	Jalgaon	Dhamangaon	Dhamangaon
31.	Jalgaon	Jamner	Kasali	Rahere Tarf Wakadi
32.	Jalgaon	Jamner	Nagan Kh.	Shankarpura
33.	Kolhapur	Bhudargad	Antiwade	Antiwade
34.	Kolhapur	Hatkanangale	Pargaon	Pargaon
35.	Kolhapur	Kagal	Galagale	Galgale
36.	Kolhapur	Shirol	Kavathegulang	Kavathegulang
37.	Nagpur	Katol	Sonoli	Sonoli
38.	Nagpur	Katol	Sonkhamb	Sonkhamb
39.	Nagpur	Narkhed	Sawargaon	Sawargaon
40.	Nagpur	Parseoni	Umari	Umari

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S.No.	District name	Block name	Gram panchayat name	Village name
41.	Nagpur	Savner	Gadmi	Pendhari
42.	Nagpur	Savner	Walani	Walani
43.	Nagpur	Savner	Borujwada	Borujwada
44.	Nagpur	Umred	Champa	Champa
45.	Osmanabad	Paranda	Chinchpur Bk.	Chinchpur Bk.
46.	Ratnagiri	Khed	Bhadgaon	Bhadgaon
47.	Sangli	Atpadi	Chinchale	Chinchale
48.	Sindhudurg	Kankavali	Nandgaon	Nandgaon
49.	Sindhudurg	Vengurla	Kochare	Kochare
50.	Solapur	Barshi	Vairag	Vairag
51.	Solapur	Madha	Bembale	Bembale
52.	Wardha	Ashti	Thar	Thar
53.	Wardha	Samudrapur	Khapri	Khapri
54.	Wardha	Wardha	Barbadi	Barbadi
55.	Wardha	Wardha	Pavnar	Pavnar
56.	Washim	Mangrulpir	Motsawanga	Ramgaon
57.	Washim	Mangrulpir	Wanoja	Wanoja
58.	Yavatmal	Arni	Jawala	Jawala
59.	Yavatmal	Maregaon	Hatwanjri	Hatwanjri
60.	Yavatmal	Maregaon	Hatwanjri	Hatwanjri
61.	Yavatmal	Wani	Shivani (Jh)	Shivani (Jh)
62.	Yavatmal	Yavatmal	Wai (Rui)	Wai (Rui)