

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

State report

Rajasthan



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 Rajasthan the survey was conducted in 4500 households from 326 villages in 33 districts.

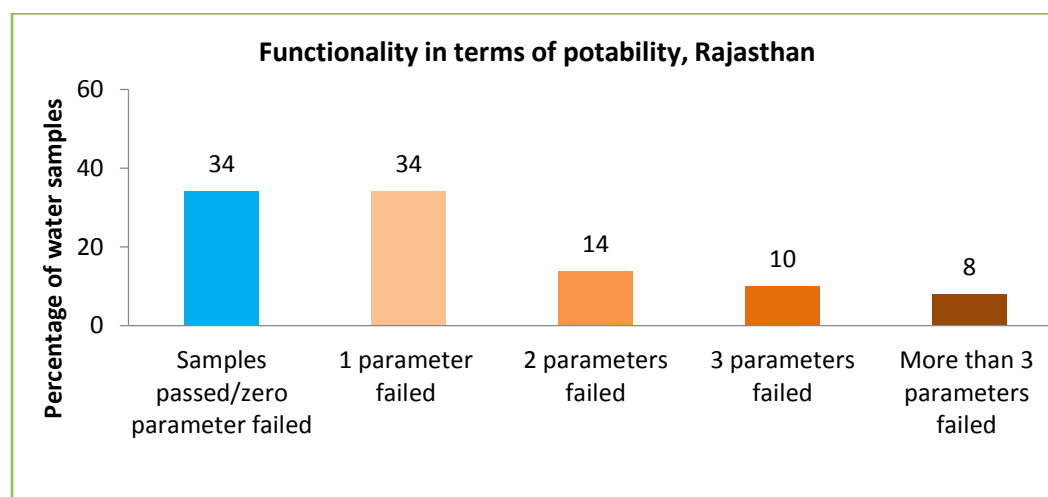
4. Key Findings

SL.	INDICATOR	Rajasthan	India
Household level			
1	Average household size	6.4	5.6
2	Percent of households using tap connection for drinking purpose	91.2	88.9
3	Percentage of households reported working tap connections (supply at least one day in last 7 days)	96.3	93.6
4	Number of water supply days in a usual week		
4a	1 – 2 days	18.9	7.6
4b	3 – 4 days	32.0	10.4
4c	5 – 6 days	2.1	1.5
4d	7 days	47.0	80.5
5	Number of water supply days in the last week		
5a	0 days	0.3	2.4
5b	1 – 2 days	22.8	9.7
5c	3 – 4 days	35.4	14.8
5d	5 – 6 days	3.5	4.9
5e	7 days	38.1	68.1
6	Percentage of households reporting reliability of water supply days	77.8	86.5
7	Percentage of households reporting tap connections functioning continuously for more than 15 days in a month for last 12 months	93.9	84.6
8	Average number of times water is supplied on the days of supply		
8a	1 time	96.4	56.6
8b	2 times	3.4	28.2
8c	3 times	0.0	6.1
8d	4 times/24 hours	0.2	9.1
9	Percentage of households reporting reliability of supply for different supply timings	67.4	84.3
10	Percentage of households reporting adequate water pressure for different supply timings		
10a	Morning	66.3	80.1
10b	Afternoon	64.3	84.6
10c	Evening	51.7	84.8
11	Percentage of households reported paying water tariff – separately or along with other taxes	37.9	52.8
12	Percentage of households reported receiving 55 lpcd or more	42.7	83.5
13	Percentage of households having potable water *	34.1	61.3
14	Percentage of households reporting regularity of supply	86.8	87.2
15	Percentage of households reporting functional tap connections	14.0	47.8
Village level			
16	Percentage villages having functional water and sanitation committees	4.3	48.5
17	Percentage of functional schemes in the sample villages considering all schemes (supplying water any day in the last 7 days)	93.1	86.0

SL.	INDICATOR	Rajasthan	India
18	Percentage of in-village schemes having O&M undertaken by village water and sanitation committee or by Panchayat	100.0	83.1
19	Percentage of sample schemes reported having faced challenges in the last one year		
19a	Inadequate infrastructure	48.8	40.2
19b	Poor water availability at the source	29.7	33.0
19c	Poor maintenance	49.4	46.2
19d	Natural calamity	58.7	63.4
20	Percentage of schemes reporting measure to improve source sustainability	46.8	59.9
21	Number of sample villages found with no scheme (defunct/under construction/not handed over/not constructed)	21	751

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

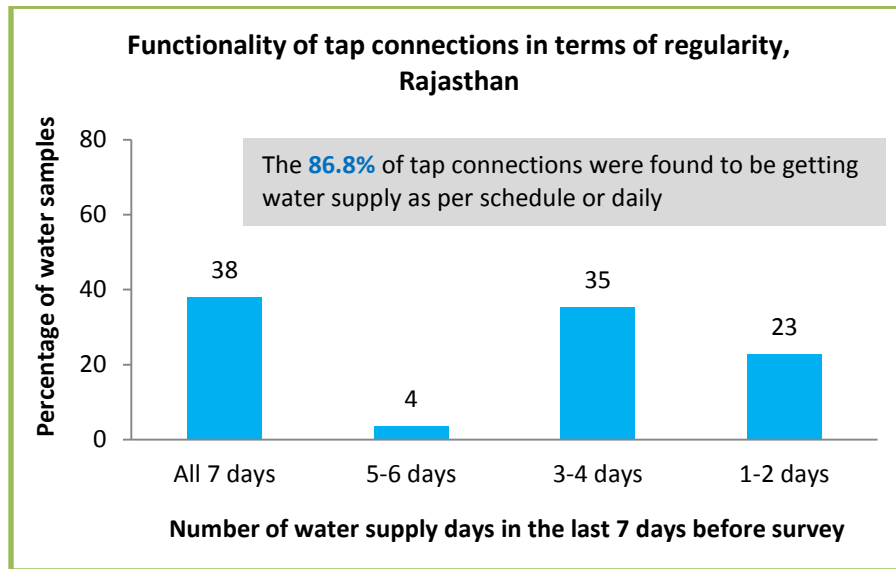
Fig 1: Functionality of the household tap connection in terms of potability - Rajasthan



Base: Households with water quality testing done, N: 302

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.

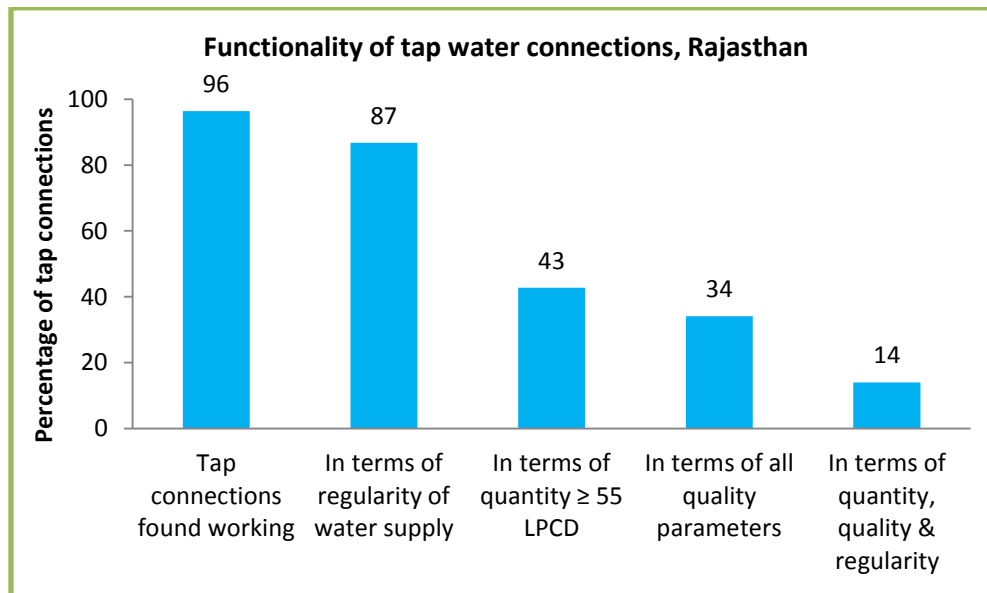
Fig 2: Functionality of the household tap connection in terms of regularity - Rajasthan



Base: All Households, N: 4499

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 - Rajasthan

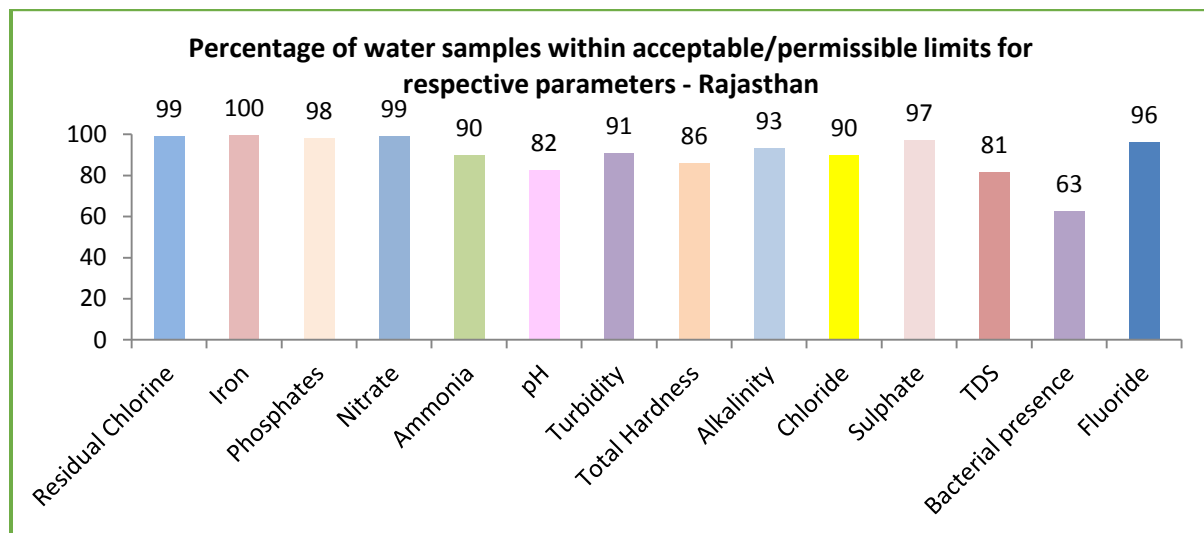


Base: Total count of tap connections considered for functionality assessment, N: 4399

A total of 302 water samples were tested in Rajasthan as per BIS: 10,500 standards for all 13 parameters. Of these samples, 26 samples included testing for fluoride. All the water samples were taken from a randomly selected head end household of selected sample PWS schemes in the sample villages of Rajasthan – one sample for each of separate water sources in the village. The figure below shows the proportion of samples in which different parameters were found within acceptable/permissible limits.

As can be seen, almost all the samples (98% or more) had Residual Chlorine, Iron, Phosphates and Nitrate within acceptable/permissible limits. Moreover, Sulphate and Fluoride (for proportion of villages affected by Fluoride) had more than 96 percent of water samples within permissible limits, and this is important considering that Rajasthan’s efforts to eliminate Fluoride from drinking water supply has been a consistent strategy over many years. The key water quality issues were Bacteriological presence (Total Coliform) in more than a third of the water samples, TDS and pH in almost a fifth of the water samples and Total Hardness in about 14 percent of the samples. Moreover, Ammonia, Turbidity, Chloride and Alkalinity is present beyond the acceptable/permissible limit in 7 – 10 percent of the samples.

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



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



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



5. Conclusions

Rajasthan has only 14 percent functional tap connections and this is very low as compared with the national average. About 87 percent of the households were provided daily or on the scheduled supply days, but the proportion of households estimated to be supplied 55 lpcd or more is low (42.7%) and proportion of households supplied with potable water is also low (34.1%). 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 low proportions of households with potable water and being supplied adequate quantity of 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 (14.7% households having adequate quantity and potable water; 29.9% households having potable water received on a regular basis; and 40 percent households had adequate quantity of water supply on a regular basis).

The key water quality issues were Bacteriological presence (Total Coliform) in more than a third of the water samples, TDS and pH in almost a fifth of the water samples and Total Hardness in about 14 percent of the samples. Moreover, Ammonia, Turbidity, Chloride and Alkalinity is present beyond the acceptable/ permissible limit in 7 – 10 percent of the samples.

The proportion of households reporting currently working tap connections is high (96.3%) in Rajasthan. On a usual basis, the PWS schemes of Rajasthan reportedly supplied water to households between 1 – 4 days in a week for a little above half the households, while 47 percent reported that water supply is usually provided on a daily basis. Compared to the usual situation, a much lower proportion (38.1%) have reported daily water supply in the last week before the survey date. However, almost four-fifths of the households have reported that water supply is reliable as per the scheduled days of supply – be it few days of the week or all days.

Almost all (96.4%) households have reported that water is supplied once a day, but only two thirds have mentioned that the water supply timings are reliable. The water pressure is also an issue for a third of the households, as only two thirds have mentioned that the water pressure is adequate during morning and afternoon supplies, and this proportion is lower for evening water supply. Also, around 94 percent households have mentioned that they had received water supply on a continuous basis for 15 days a month for the last 12 months.

The proportion of households who have reported paying water tax is low (37.9%) – lower than the national average. As per the JJM guidelines, the State Government needs to ensure 100 percent fund requirement for operation and maintenance of the schemes are met by the Agency responsible for water supply provision to function as a utility.

Less than 5 percent of the villages have reported having water and sanitation committees, but wherever available, 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, poor maintenance and inadequate infrastructure’ were the main challenges faced by the schemes. Almost half 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

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

S.No	Distri ct Name	Block Name	Panchay at Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
1.	Alwar	Thana gazi	Kankrali Kalan	Ladoow as	Ladoowas	SVS	Scheme is defunct	Scheme is not functional
2.	Baran	Anta	Ratadiya	Bishan Kheri	Nagda Anta Baldevpura water supply project	MVS	No scheme	There is a tanker that everyone uses.
3.	Baran	Atru	Atru	Laxmipu ra	Atru shergarh wsp	MVS	No scheme	There is no piped water scheme in this village.
4.	Baran	Baran	Bamla	Bamli	Bamla-Bamli	SVS	No scheme	There is a tanker that everyone uses.
5.	Bikan er	Kolaya t	Chak Vijaysing hpura	Chak Vijaising hpura	Water supply project based on Gajner lift canal	MVS	No scheme	There is a tanker that everyone uses.
6.	Dausa	Dausa	Kundal	Kundal	PWS Kundal	SVS	Scheme is defunct	There is a tap connection in every house in Kundal, but there is no water coming in the tap of any house for the last 8 months, the tap connection has been closed for 6-8 months, so here we have only the village schedule from the sarpanch. Have got it certified.
7.	Dhaul pur	Bari	Khanpur Meena	Khanpur Maina	WSS Khanpur Meena	SVS	Scheme is defunct	There is no water source in the village. A water tank is built outside the village which is used for drinking water.
8.	Dhaul pur	Bari	Sahedi	Kasoti Khera	WSS Kasoti Khera	SVS	Scheme is defunct	There is no water source in the village. A water tank is built outside the village which is used for drinking water.

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S.No	Distri ct Name	Block Name	Panchay at Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
9.	Dung arpur	Aspur	Movai	Mowai	Reorganisation of problematic and flouride affected	MVS	No scheme	No pipe water shceme in this village.
10.	Gang anagar	Padam pur	34 LNP	36 LNP	Reg. WSS 34-36 INP	MVS	No scheme	No pipe water scheme in this village.
11.	Hanu mang arh	Hanu mang arh	Chak Jawala Singh Wala	42 NGC	Pandt WSS 42 NGC	SVS	No scheme	No pipe water scheme in this village.
12.	Jaipur	Phagi	Kishorpu ra	Mohanp ura Rajawat an	RWSS of 161 vill. Of teh. Phage, under BDP, project	MVS	Scheme is defunct	There is no water source in the village. A water tank is built outside the village which is used for drinking water.
13.	Jaipur	Phagi	Kishorpu ra	Sameliya	RWSS of 161 vill. Of teh. Phage, under BDP, project	MVS	No scheme	There is a tanker that everyone uses.
14.	Jodhp ur	Dhawa	Barla Nagar	Ajeet Nagar	Proposal for water supply for NRV Ajeet Nagar, MD Vishnu KD and Pariharo KD	MVS	No scheme	There is a tanker that everyone uses.
15.	Jodhp ur	Pipar City	Khwasp ura	Khwasp ura	RWSS Manaklao khangta	MVS	No scheme	There is a tanker that everyone uses.
16.	Karau li	Todab him	Jonl	Dorawali	New scheme sub div. Todabhim	MVS	No scheme	There is a tanker that everyone uses.
17.	Naga ur	Parbat sar	Peeplad	Peeplad	RRWS and FMP Nagaur package 04 CDS Parbatsar	MVS	No scheme	There is a tanker that everyone uses.
18.	Pali	Bali	Boya	Boya	Jawai cluster IV	MVS	Scheme is defunct	Scheme is not functional since

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S.No	Distri ct Name	Block Name	Panchay at Name	Village Name	Name of Largest Scheme in the Village	Type	Status of the Scheme	Remarks
					project			last 10 months
19.	Rajsa mand	Amet	Jaitpura	Jetpura	Gramin jal Yojana Jaitpura	SVS	No scheme	There is a tanker that everyone uses.
20.	Udaip ur	Sarada	Udpuriy a Jageer	Udpuriy a (Khalsa)	RWSS from Jaisamand for 30 villages	MVS	No scheme	There is a tanker that everyone uses.
21.	Udaip ur	Vallab hnagar	Mal Ki Toos	Tank	0	0	No scheme	There is a tanker that everyone uses.

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

S.No	District Name	Block Name	Panchayat Name	Village Name	Name of Largest Scheme in the Village	Type	Remarks
1.	Ajmer	Arain	Barol	Keriya Kalan	FCP Nasirabad Phase - (II)	MVS	Boring work has completed out side village and there are two stand post is there. Households are getting water from there. That time we were not testing water of tap stand post.
2.	Jalor	Raniwar a	Kodka	Samrani	RO 18 Div Bhinmal Rit Water	MVS	There is tap stand in this village but that time we were not doing water testing
3.	Tonk	Niwai	Jamdoli	Jamdoli	Bisalpur Tonk Newaii WSS 199 Village	MVS	This village has tap stand out side village boundary but we were not doing water test that time.
4.	Udaipur	Mavli	Rakhiya wal	Rakhyawal	In Village	MVS	There is stand post in this village but water supply is on weekly basis and that time we were not collecting water for test.
5.	Udaipur	Phalasiya	Madri	Madri	Dewas Stage II Uwss Udaipur	MVS	Borewell work has been completed and there is one open tank which is filled up daily and people are getting water from there. There is no HH tap connection in this village till now.

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

No villages were there with less than 15 households surveyed.

Annexure 4: Indicative proportion of functional tap connections by districts

S.No	District	Percentage Functional Taps
1.	Ajmer	5.9
2.	Alwar	0.0
3.	Banswara	3.3
4.	Baran	85.7
5.	Barmer	4.7
6.	Bharatpur	0.0
7.	Bhilwara	0.0
8.	Bikaner	0.0
9.	Bundi	38.0
10.	Chittaurgarh	0.0
11.	Churu	0.0
12.	Dausa	4.4
13.	Dhaulpur	6.7
14.	Dungarpur	3.7
15.	Ganganagar	0.0
16.	Hanumangarh	0.0
17.	Jaipur	0.0
18.	Jaisalmer	13.3
19.	Jalor	5.2
20.	Jhalawar	75.3
21.	Jhunjhunun	0.0
22.	Jodhpur	32.5
23.	Karauli	0.0
24.	Kota	96.3
25.	Nagaur	12.7
26.	Pali	7.4
27.	Pratapgarh	0.0
28.	Rajsamand	20.0
29.	Sawai Madhopur	8.0
30.	Sikar	2.2
31.	Sirohi	23.0
32.	Tonk	14.8
33.	Udaipur	15.6

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.	Bharatpur	Deeg	Janoothar	Jantoothar
2.	Bhilwara	Mandalgarh	Bigod	Bigod
3.	Bikaner	Lunkaransar	Arjunsar Station	Arjunsar Station
4.	Bikaner	Lunkaransar	Nathwana	Nathwana
5.	Chittaurgarh	Nimbahera	Gadola	Gadola
6.	Chittaurgarh	Nimbahera	Badoli Madhosingh	Badoli Madhosingh
7.	Chittaurgarh	Rawatbhata	Bhansrodgarh	Bhainsrorgarh
8.	Dhaulpur	Dhaulpur	Luhari	Luhari
9.	Dhaulpur	Dhaulpur	Maniya	Maniyan
10.	Dhaulpur	Dhaulpur	Luhari	Bahwalpur
11.	Dhaulpur	Saipau	Saipau	Saipau
12.	Dhaulpur	Sarmathura	Barauli	Barauli
13.	Jaipur	Govindgar	Govind Garh	Govindgarh
14.	Jaisalmer	Nachna	Nachna	Nachna
15.	Jhunjhunun	Chirawa	Ojtoo	Ojtu
16.	Jhunjhunun	Nawalgarh	Dhigal	Dhigal
17.	Jhunjhunun	Nawalgarh	Parasrampura	Parasrampura
18.	Jhunjhunun	Udaipurwati	Raghunathpura	Raghunathpura
19.	Jhunjhunun	Udaipurwati	Gudha Gorji	Gudha Gorji
20.	Karauli	Hindaun	Dhindora	Dhindora
21.	Sikar	Dhod	Gothra Bhookran	Gothra Bhookran
22.	Sikar	Fatehpur	Dadunda	Nagardas
23.	Sikar	Khandela	Kanwat	Kanwat
24.	Sikar	Nechhawa	Mangloona	Mangloona
25.	Sikar	Neem Ka Thana	Mawanda Kalan	Jatala
26.	Sikar	Piprali	Beri	Beri
27.	Sirohi	Pindwara	Basantgarh	Basantgarh
28.	Sirohi	Pindwara	Basantgarh	Basantgarh
Villages with failed water samples for pH test				
1.	Alwar	Kathumar	Roneeja Than	Roneeja Than
2.	Banswara	Garhi	Bori	Bori
3.	Banswara	Garhi	Paloda	Paloda
4.	Banswara	Ghatol	Ghatol	Ghatol
5.	Barmer	Chohtan	Chohtan	Chohtan
6.	Barmer	Gudamalani	Gudha Malani	Gudhamalani
7.	Barmer	Gudamalani	Nagar	Nagar
8.	Bhilwara	Hurda	Bhojras	Chainpuriya
9.	Bhilwara	Jahazpur	Luhari Kalan	Luhari Kalan
10.	Bhilwara	Jahazpur	Itunda	Intunda
11.	Bhilwara	Kotri	Gendliya	Gendliya

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S.No.	District name	Block name	Gram panchayat name	Village name
12.	Bhilwara	Mandalgarh	Bigod	Bigod
13.	Bhilwara	Raipur	Palra	Pachataron Ka Khera
14.	Bhilwara	Shahpura	Bachhkhera	Bachh Khera
15.	Bikaner	Bikaner	Bambloo	Bambloo
16.	Chittaurgarh	Bhupalsagar	Jashma	Jashma
17.	Chittaurgarh	Chittaurgarh	Gilund	Gilund
18.	Chittaurgarh	Dungla	Nagawali	Nangawali
19.	Chittaurgarh	Dungla	Idra	Idra
20.	Chittaurgarh	Gangrar	Gangrar	Gangrar
21.	Chittaurgarh	Gangrar	Gangrar	Gangrar
22.	Chittaurgarh	Rawatbhata	Bhansrodgarh	Bhainsrorgarh
23.	Chittaurgarh	Rawatbhata	Borao	Borao
24.	Churu	Taranagar	Lunas	Kharatwas
25.	Churu	Taranagar	Sahwa	Sahwa
26.	Dausa	Lalsot	Didwana	Didwana
27.	Dungarpur	Sabla	Mal	Mal
28.	Dungarpur	Sagwara	Bheeloora	Bheeloora
29.	Dungarpur	Simalwara	Dhambola	Dhambola
30.	Dungarpur	Simalwara	Peeth	Peeth
31.	Ganganagar	Suratgarh	Rajiyasar Sation	Peepasar
32.	Hanumangarh	Bhadra	Ajeet Pura	Ajeetpura
33.	Hanumangarh	Nohar	Parlika (19 Ntr)	19 Ntr
34.	Jaipur	Chaksu	Shivdaspura	Shivdaspura
35.	Jaipur	Chaksu	Thali	Thali
36.	Jaipur	Madhorajpura	Renwal Maji	Renwal Manji
37.	Jaisalmer	Nachna	Nachna	Nachna
38.	Jhunjhunun	Buhana	Buhana	Buhana
39.	Jhunjhunun	Chirawa	Ojtoo	Ojtu
40.	Jhunjhunun	Khetri	Mandri	Kakrai
41.	Jhunjhunun	Nawalgarh	Dhigal	Dhigal
42.	Pratapgarh	Peepalkhoont	Peepalkhoont	Peepal Khoont
43.	Pratapgarh	Pratapgarh	Gandher	Gandher
44.	Rajsamand	Railmagra	Khadbamniya	Khad Bamaniya
45.	Sawai Madhopur	Gangapur	Wazeerpur	Wazeerpur
46.	Sawai Madhopur	Malarna Doongar	Khirni	Khirni
47.	Sikar	Dhod	Gothra Bhookran	Gothra Bhookran
48.	Sikar	Khandela	Kanwat	Kanwat
49.	Sikar	Nechhawa	Mangloona	Mangloona
50.	Sikar	Patan	Jeelo	Jeelo
51.	Sikar	Piprali	Beri	Beri
52.	Sikar	Piprali	Singhasan	Singhasan
53.	Sirohi	Pindwara	Nadiya	Nandiya

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S.No.	District name	Block name	Gram panchayat name	Village name
Villages with failed water samples for Total Hardness test				
1.	Alwar	Kathumar	Roneeja Than	Roneeja Than
2.	Alwar	Kathumar	Bhanokhar	Bhanokhar
3.	Alwar	Kishangarh	Ismail Pur	Ismalpur
4.	Alwar	Rajgarh	Khoh	Khoh
5.	Alwar	Reni	Dera	Dera
6.	Alwar	Thanagazi	Narayan Pur	Narayanpur
7.	Bharatpur	Bhusawar	Nithar	Nithar
8.	Bharatpur	Deeg	Bahaj	Bahaj
9.	Bharatpur	Deeg	Janoothar	Jantoothar
10.	Bharatpur	Kumher	Lakhan	Lakhan
11.	Bharatpur	Nagar	Sikri	Seekri Chak No. 2
12.	Bharatpur	Pahari	Pahari	Pahari
13.	Bharatpur	Sewar	Chicksana	Chiksana
14.	Bharatpur	Uchhain	Uchchain	Uchchain
15.	Bharatpur	Weir	Halena	Halena
16.	Bhilwara	Kareda	Bemali	Bemali
17.	Dausa	Lalsot	Didwana	Didwana
18.	Dausa	Nangal Rajawatan	Alouda	Alooda
19.	Dausa	Nangal Rajawatan	Nangal Rajawatan	Nangal Rajawatan
20.	Dausa	Nangal Rajawatan	Khawarao Ji	Khawa Raoji
21.	Dausa	Ramgarh Pachwara	Ramgarh Pachawara	Ramgarh Pachwara
22.	Dhaulpur	Dhaulpur	Luhari	Bahwalpur
23.	Dhaulpur	Saipau	Taseemo	Taseemo
24.	Dhaulpur	Saipau	Saipau	Saipau
25.	Dhaulpur	Sarmathura	Barauli	Barauli
26.	Jhunjhun	Nawalgarh	Dhigal	Dhigal
27.	Karauli	Hindaun	Dhindora	Dhindora
28.	Karauli	Hindaun	Mahoo Khas	Mahoo Khas
29.	Karauli	Nadoti	Gurha Chandraji	Gurha Chandraji
30.	Karauli	Sapotra	Inayati	Inayati
31.	Karauli	Sapotra	Sapotra	Sapotra
32.	Karauli	Shree Mahaveer Ji	Khera	Khera
33.	Karauli	Todabhim	Mahswa	Mahswa
34.	Karauli	Todabhim	Jahannagar Morda	Jahannagar Morda
35.	Sawai Madhopur	Bamanwas	Liwali	Liwali
36.	Sawai Madhopur	Bamanwas	Piplai	Piplai
37.	Sawai Madhopur	Bonli	Peepalwara	Peepalwara
38.	Sawai Madhopur	Gangapur	Wazeerpur	Wazeerpur
39.	Sawai Madhopur	Khandar	Baharawanda Khurd	Bahrawnda Khurd
40.	Sikar	Dhod	Gothra Bhookran	Gothra Bhookran
41.	Sikar	Khandela	Kanwat	Kanwat

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S.No.	District name	Block name	Gram panchayat name	Village name
42.	Tonk	Tonk	Mandwas	Mehandwas
Villages with failed water samples for Total Alkalinity test				
1.	Alwar	Kathumar	Roneeja Than	Roneeja Than
2.	Alwar	Malakhera	Barkhera	Barkhera
3.	Alwar	Rajgarh	Khoh	Khoh
4.	Alwar	Umrain	Bhoogar	Bhoogar
5.	Bharatpur	Deeg	Bahaj	Bahaj
6.	Bharatpur	Deeg	Janoothar	Jantoothar
7.	Bharatpur	Kumher	Lakhan	Lakhan
8.	Bharatpur	Pahari	Pahari	Pahari
9.	Bharatpur	Weir	Halena	Halena
10.	Dausa	Lalsot	Didwana	Didwana
11.	Dausa	Nangal Rajawatan	Nangal Rajawatan	Nangal Rajawatan
12.	Dausa	Nangal Rajawatan	Khawarao Ji	Khawa Raoji
13.	Dausa	Ramgarh Pachwara	Ramgarh Pachawara	Ramgarh Pachwara
14.	Dhaulpur	Dhaulpur	Luhari	Luhari
15.	Dhaulpur	Sarmathura	Sarmathura	Sarmathura
16.	Sawai Madhopur	Bamanwas	Liwali	Liwali
17.	Sawai Madhopur	Bonli	Peepalwara	Peepalwara
18.	Sawai Madhopur	Gangapur	Khandeep	Khandeep
19.	Sikar	Khandela	Kanwat	Kanwat
20.	Sikar	Piprali	Beri	Beri
Villages with failed water samples for Chloride test				
1.	Alwar	Kathumar	Roneeja Than	Roneeja Than
2.	Alwar	Malakhera	Barkhera	Barkhera
3.	Barmer	Siwana	Siwana	Siwana
4.	Bharatpur	Deeg	Bahaj	Bahaj
5.	Bharatpur	Nagar	Sikri	Seekri Chak No. 2
6.	Bharatpur	Pahari	Pahari	Pahari
7.	Bikaner	Bikaner	Bambloo	Bambloo
8.	Bikaner	Bikaner	Ridmalsar Purohitan	Ridmalsar Purohitan
9.	Bikaner	Dungargarh	Dhaneru	Dhaneru
10.	Bikaner	Dungargarh	Barjangsar	Barjangsar
11.	Bikaner	Lunkaransar	Arjunsar Station	Arjunsar Station
12.	Bikaner	Lunkaransar	Nathwana	Nathwana
13.	Bikaner	Nokha	Berasar	Berasar
14.	Churu	Churu	Jasasar	Dheerasar Beekan
15.	Churu	Sujargarh	Jogliya	Jogliya
16.	Dausa	Dausa	Bhandarej	Bhandarej
17.	Hanumangarh	Bhadra	Ajeet Pura	Ajeetpura
18.	Jaipur	Chaksu	Shivdaspura	Shivdaspura
19.	Jaisalmer	Bhaniyana	Bhekhora Jooni	Bhekhora Jooni

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S.No.	District name	Block name	Gram panchayat name	Village name
20.	Jaisalmer	Nachna	Nachna	Nachna
21.	Jhunjhunun	Nawalgarh	Dhigal	Dhigal
22.	Jhunjhunun	Udaipurwati	Raghunathpura	Raghunathpura
23.	Jodhpur	Luni	Khejarli Kallan	Khejarli Kalan
24.	Karauli	Hindaun	Mahoo Khas	Mahoo Khas
25.	Karauli	Shree Mahaveer Ji	Khera	Khera
26.	Karauli	Todabhim	Jahannagar Morda	Jahannagar Morda
27.	Pali	Sumerpur	Gogara	Heengola
28.	Pali	Sumerpur	Balana	Balana
29.	Pali	Sumerpur	Anoppura	Beethura
30.	Tonk	Tonk	Mandwas	Mehandwas
Villages with failed water samples for Ammonia test				
1.	Ajmer	Kekri	Kadera	Kadera
2.	Ajmer	Sarwar	Jotayan	Jotayan
3.	Bharatpur	Nagar	Sikri	Seekri Chak No. 2
4.	Bharatpur	Weir	Halena	Halena
5.	Bhilwara	Hurda	Bhojras	Chainpuriya
6.	Chittaurgarh	Bhadesar	Bhadsoda	Bhadsora
7.	Chittaurgarh	Dungla	Nagawali	Nangawali
8.	Chittaurgarh	Rawatbhata	Borao	Borao
9.	Churu	Ratangarh	Gogasar	Gogasar
10.	Churu	Taranagar	Sahwa	Sahwa
11.	Dausa	Lalsot	Mandawari	Mandawari
12.	Dausa	Sikrai	Geejgarh	Geejgarh
13.	Dhaulpur	Saipau	Taseemo	Taseemo
14.	Jaipur	Chaksu	Shivdaspura	Shivdaspura
15.	Jaipur	Jalsu	Mundota	Mundota
16.	Jhunjhunun	Buhana	Buhana	Buhana
17.	Jhunjhunun	Khetri	Mandri	Kakrai
18.	Jhunjhunun	Nawalgarh	Dhigal	Dhigal
19.	Pali	Bali	Chamunderi	Chamunderi Ranawatan
20.	Pali	Bali	Falnagaon	Falna Gaon
21.	Pali	Sumerpur	Balana	Balana
22.	Pratapgarh	Dhariawad	Parsola	Parsola
23.	Pratapgarh	Dhariawad	Dhariyawad	Dhariyawad
24.	Sikar	Khandela	Kanwat	Kanwat
25.	Sikar	Nechhawa	Mangloona	Mangloona
26.	Sikar	Piprali	Beri	Beri
27.	Sikar	Piprali	Singhasan	Singhasan
28.	Sirohi	Pindwara	Basantgarh	Basantgarh
29.	Sirohi	Pindwara	Basantgarh	Basantgarh
30.	Sirohi	Sheoganj	Badgaon	Bar Gaon

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S.No.	District name	Block name	Gram panchayat name	Village name
31.	Sirohi	Sirohi	Kalandri	Kalandri
Villages with failed water samples for Phosphate test				
1.	Barmer	Samadri	Rakhi	Rakhi
2.	Bikaner	Dungargarh	Dhaneru	Dhaneru
3.	Dausa	Ramgarh Pachwara	Ramgarh Pachawara	Ramgarh Pachwara
4.	Jaisalmer	Nachna	Nachna	Nachna
5.	Jhunjhunun	Buhana	Buhana	Buhana
6.	Jhunjhunun	Khetri	Mandri	Kakrai
Villages with failed water samples for Residual Chlorine test				
1.	Hanumangarh	Nohar	Ramasara (26 Ntr)	26 Ntr
2.	Sirohi	Reodar	Mandar	Mandar
Villages with failed water samples for Iron test				
1.	Karauli	Todabhim	Jahannagar Morda	Jahannagar Morda
Villages with failed water samples for Nitrate test				
1.	Alwar	Reni	Dera	Dera
2.	Bharatpur	Deeg	Janoothar	Jantoothar
3.	Dhaulpur	Dhaulpur	Luhari	Luhari
Villages with failed water samples for Sulphate test				
1.	Alwar	Kathumar	Roneeja Than	Roneeja Than
2.	Alwar	Malakhera	Barkhera	Barkhera
3.	Bharatpur	Deeg	Bahaj	Bahaj
4.	Bharatpur	Pahari	Pahari	Pahari
5.	Dhaulpur	Dhaulpur	Luhari	Bahwalpur
6.	Karauli	Shree Mahaveer Ji	Khera	Khera
7.	Karauli	Todabhim	Jahannagar Morda	Jahannagar Morda
8.	Pali	Sumerpur	Anoppura	Beethura
Villages with failed water samples for Total Dissolved Solids test				
1.	Alwar	Kathumar	Roneeja Than	Roneeja Than
2.	Alwar	Kathumar	Bhanokhar	Bhanokhar
3.	Alwar	Kishangarh	Ismail Pur	Ismalpur
4.	Alwar	Malakhera	Barkhera	Barkhera
5.	Bharatpur	Deeg	Bahaj	Bahaj
6.	Bharatpur	Deeg	Janoothar	Jantoothar
7.	Bharatpur	Nagar	Sikri	Seekri Chak No. 2
8.	Bharatpur	Pahari	Pahari	Pahari
9.	Bharatpur	Uchhain	Uchchain	Uchchain
10.	Bharatpur	Weir	Halena	Halena
11.	Bikaner	Bikaner	Bambloo	Bambloo
12.	Bikaner	Bikaner	Ridmalsar Purohitan	Ridmalsar Purohitan
13.	Bikaner	Dungargarh	Dhaneru	Dhaneru
14.	Bikaner	Dungargarh	Barjangsar	Barjangsar
15.	Bikaner	Lunkaransar	Arjunsar Station	Arjunsar Station

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S.No.	District name	Block name	Gram panchayat name	Village name
16.	Bikaner	Lunkaransar	Nathwana	Nathwana
17.	Churu	Churu	Jasasar	Dheerasar Beekan
18.	Churu	Sujangarh	Jogliya	Jogliya
19.	Dausa	Dausa	Bhandarej	Bhandarej
20.	Dausa	Lalsot	Didwana	Didwana
21.	Dausa	Nangal Rajawatan	Alouda	Alooda
22.	Dausa	Nangal Rajawatan	Nangal Rajawatan	Nangal Rajawatan
23.	Dausa	Nangal Rajawatan	Khawarao Ji	Khawa Raoji
24.	Dausa	Ramgarh Pachwara	Ramgarh Pachawara	Ramgarh Pachwara
25.	Dhaulpur	Dhaulpur	Luhari	Bahwalpur
26.	Dhaulpur	Saipau	Taseemo	Taseemo
27.	Dhaulpur	Sarmathura	Barauli	Barauli
28.	Hanumangarh	Bhadra	Ajeet Pura	Ajeetpura
29.	Jaipur	Chaksu	Shivdaspura	Shivdaspura
30.	Jaisalmer	Bhaniyana	Bhekhora Jooni	Bhekhora Jooni
31.	Jaisalmer	Nachna	Nachna	Nachna
32.	Jalor	Ahore	Valadara	Valdara
33.	Jalor	Jalor	Siyana	Siyana
34.	Jalor	Jaswantpura	Seekwara	Seekwara
35.	Jhunjhunun	Buhana	Buhana	Buhana
36.	Jhunjhunun	Khetri	Mandri	Kakrai
37.	Jhunjhunun	Nawalgarh	Dhigal	Dhigal
38.	Jhunjhunun	Udaipurwati	Raghunathpura	Raghunathpura
39.	Jodhpur	Luni	Khejarli Kallan	Khejarli Kalan
40.	Karauli	Hindaun	Dhindora	Dhindora
41.	Karauli	Hindaun	Mahoo Khas	Mahoo Khas
42.	Karauli	Nadoti	Gurha Chandraji	Gurha Chandraji
43.	Karauli	Sapotra	Inayati	Inayati
44.	Karauli	Sapotra	Sapotra	Sapotra
45.	Karauli	Shree Mahaveer Ji	Khera	Khera
46.	Karauli	Todabhim	Mahswa	Mahswa
47.	Karauli	Todabhim	Jahannagar Morda	Jahannagar Morda
48.	Pali	Sumerpur	Gogara	Heengola
49.	Pali	Sumerpur	Balana	Balana
50.	Pali	Sumerpur	Anoppura	Beethura
51.	Sawai Madhopur	Bamanwas	Liwali	Liwali
52.	Sawai Madhopur	Bamanwas	Piplai	Piplai
53.	Sawai Madhopur	Bonli	Peepalwara	Peepalwara
54.	Sawai Madhopur	Gangapur	Wazeerpur	Wazeerpur
55.	Sikar	Khandela	Kanwat	Kanwat
56.	Tonk	Tonk	Mandwas	Mehandwas

Villages with failed water samples for Bacteriological present/ absence test using H2S vials

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S.No.	District name	Block name	Gram panchayat name	Village name
1.	Ajmer	Ajmer Rural	Hathi Khera	Hathi Khera
2.	Ajmer	Silora	Roopangarh	Roopangarh
3.	Alwar	Kathumar	Roneeja Than	Roneeja Than
4.	Alwar	Malakhera	Barkhera	Barkhera
5.	Alwar	Rajgarh	Khoh	Khoh
6.	Banswara	Anandpuri	Anand Puri	Anandpuri
7.	Banswara	Bagidora	Barodiya	Barodiya
8.	Banswara	Banswara	Theekariya	Theekariya
9.	Banswara	Garhi	Saredi Badi	Sareri Bari
10.	Banswara	Garhi	Metwala	Metwala
11.	Barmer	Baitu	Baitu Bhopji	Baitu Bhopji
12.	Barmer	Balotra	Jasol	Jasol
13.	Bharatpur	Kumher	Lakhan	Lakhan
14.	Bharatpur	Nadbai	Kawai	Kawai
15.	Bhilwara	Hurda	Bhojras	Chainpuriya
16.	Bhilwara	Kareda	Bemali	Bemali
17.	Bhilwara	Raipur	Khakhar Mala	Asuna
18.	Bhilwara	Shahpura	Bachhkhera	Bachh Khera
19.	Bhilwara	Suwana	Suwana	Suwana
20.	Bikaner	Bikaner	Moondsar	Moondsar
21.	Bikaner	Bikaner	Ridmalsar Purohitan	Ridmalsar Purohitan
22.	Bikaner	Nokha	Berasar	Berasar
23.	Chittaurgarh	Bhadesar	Bhadsoda	Bhadsora
24.	Chittaurgarh	Bhupalsagar	Jashma	Jashma
25.	Chittaurgarh	Chittaurgarh	Gilund	Gilund
26.	Chittaurgarh	Dungla	Nagawali	Nangawali
27.	Chittaurgarh	Dungla	Idra	Idra
28.	Chittaurgarh	Gangrar	Gangrar	Gangrar
29.	Chittaurgarh	Nimbahera	Gadola	Gadola
30.	Chittaurgarh	Nimbahera	Badoli Madhosingh	Badoli Madhosingh
31.	Chittaurgarh	Rawatbhata	Bhansrodgarh	Bhainsrorgarh
32.	Chittaurgarh	Rawatbhata	Borao	Borao
33.	Churu	Churu	Jasasar	Dheerasar Beekan
34.	Churu	Rajgarh	Shankhu	Sankhoo
35.	Churu	Rajgarh	Chandgothi	Chand Gothi
36.	Churu	Ratangarh	Gogasar	Gogasar
37.	Churu	Sardarshahar	Mehrasar Chachera	Barlajsar
38.	Churu	Sujargarh	Kanoota	Kanoota
39.	Churu	Sujargarh	Salasar	Salasar
40.	Churu	Taranagar	Sahwa	Sahwa
41.	Dausa	Dausa	Bhandarej	Bhandarej
42.	Dausa	Ramgarh Pachwara	Ramgarh Pachawara	Ramgarh Pachwara

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S.No.	District name	Block name	Gram panchayat name	Village name
43.	Dungarpur	Chikhli	Kunwa	Kuwan
44.	Dungarpur	Galiykot	Chitri	Cheentri
45.	Dungarpur	Sabla	Bodigama Chota	Borigama Chhota
46.	Dungarpur	Sagwara	Ara	Ara
47.	Ganganagar	Anoopgarh	11:00 Pm	11:00 Pm
48.	Ganganagar	Ganganagar	Dulapurkari	5 D
49.	Ganganagar	Ganganagar	Khat Labana	2 F
50.	Ganganagar	Karanpur	15 O	17 O
51.	Ganganagar	Karanpur	Gulabewala (25 F)	25 F
52.	Ganganagar	Karanpur	Majhiwala (9 F A)	12 Fa
53.	Ganganagar	Raisinghnagar	Satjanda	25 Np
54.	Ganganagar	Sadulshahar	Gadar Khada	25 Ksd-B(Patli)
55.	Ganganagar	Suratgarh	Rajiyasar Sation	Peepasar
56.	Hanumangarh	Bhadra	Ajeet Pura	Ajeetpura
57.	Hanumangarh	Hanumangarh	Pucca Bhadava	15 Jdw
58.	Hanumangarh	Hanumangarh	Kishanpura Dikhnada	19 Ksp (Kishanpura)
59.	Hanumangarh	Nohar	Ramasara (26 Ntr)	26 Ntr
60.	Hanumangarh	Nohar	Parlika (19 Ntr)	19 Ntr
61.	Hanumangarh	Rawatsar	Chaiya (1 Cym)	2 Bpsm
62.	Hanumangarh	Sangria	Inder Pura	17 Mjd(Indrapura)
63.	Hanumangarh	Sangria	Bhagatpura	14 Bgp (Bhagatpura)
64.	Hanumangarh	Tibbi	Surewala	12 Cdr
65.	Jaipur	Chaksu	Shivdaspura	Shivdaspura
66.	Jaipur	Chaksu	Thali	Thali
67.	Jaipur	Govindgar	Govind Garh	Govindgarh
68.	Jaipur	Jalsu	Mundota	Mundota
69.	Jaipur	Jobner	Bassinagan	Bassinaga
70.	Jaipur	Madhorajpura	Renwal Maji	Renwal Manji
71.	Jaipur	Phagi	Mendwas	Mendwas
72.	Jaisalmer	Mohangarh	Mohangarh	Mohangarh
73.	Jalor	Ahore	Bhorda	Bhorda
74.	Jhunjhunun	Buhana	Buhana	Buhana
75.	Jhunjhunun	Chirawa	Ojtoo	Ojtu
76.	Jhunjhunun	Khetri	Babai	Babai
77.	Jhunjhunun	Khetri	Mandri	Kakrai
78.	Jhunjhunun	Khetri	Tyonda	Rampura
79.	Jhunjhunun	Nawalgarh	Dhigal	Dhigal
80.	Jhunjhunun	Nawalgarh	Parasrampura	Parasrampura
81.	Jhunjhunun	Singhana	Ghardana Kalan	Ghardana Kalan
82.	Jhunjhunun	Udaipurwati	Raghunathpura	Raghunathpura
83.	Jhunjhunun	Udaipurwati	Gudha Gorji	Gudha Gorji
84.	Jodhpur	Pipar City	Borunda	Boroonda

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S.No.	District name	Block name	Gram panchayat name	Village name
85.	Karauli	Shree Mahaveer Ji	Khera	Khera
86.	Nagaur	Kuchaman	Sargot	Sargoth With Padampu
87.	Nagaur	Makrana	Itawa Lakha	Itawa Lakha
88.	Nagaur	Makrana	Borawar	Borawar
89.	Nagaur	Merta	Harsolao	Harsolao
90.	Nagaur	Molasar	Pawa	Pawa
91.	Nagaur	Nagaur	Kumari	Kumari
92.	Pali	Desuri	Barod	Sarthur
93.	Pali	Rani	Deoli	Deoli
94.	Pali	Sumerpur	Balana	Balana
95.	Pali	Sumerpur	Anoppura	Beethura
96.	Pratapgarh	Chhoti Sadri	Bambori	Bambori
97.	Pratapgarh	Dhariawad	Khoontha	Khoonta
98.	Pratapgarh	Dhariawad	Khoontha	Khoonta
99.	Pratapgarh	Dhariawad	Dhariyawad	Dhariyawad
100.	Pratapgarh	Pratapgarh	Dabra	Achalpuriya
101.	Pratapgarh	Pratapgarh	Gandher	Gandher
102.	Sikar	Danta Ramgarh	Danta	Danta
103.	Sikar	Fatehpur	Dadunda	Nagardas
104.	Sikar	Khandela	Kanwat	Kanwat
105.	Sikar	Nechhawa	Mangloona	Mangloona
106.	Sikar	Neem Ka Thana	Mawanda Kalan	Jatala
107.	Sikar	Piprali	Singhasan	Singhasan
108.	Sirohi	Pindwara	Basantgarh	Basantgarh
109.	Sirohi	Pindwara	Basantgarh	Basantgarh
110.	Sirohi	Pindwara	Ajari	Ajari
111.	Sirohi	Sirohi	Kalandri	Kalandri
112.	Udaipur	Bhinder	Kheroda	Kherodaa
113.	Udaipur	Kotra	Kotra	Kotra
Villages with failed water samples for Fluoride test				
1.	Bikaner	Dungargarh	Barjangsar	Barjangsar