

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

State report

Karnataka



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 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 Karnataka the survey was conducted in 4233 households from 300 villages in 30 districts.

4. Key Findings

SL.	INDICATOR	Karnataka	India
	Household level		
1	Average household size	5.3	5.6
2	Percent of households using FHTC for drinking purpose	83.8	88.9
3	Percentage of households reported working tap connections (supply at least one day in last 7 days)	97.7	93.6
4	Number of water supply days in a usual week		
4a	1 – 2 days	8.9	7.6
4b	3 – 4 days	16.9	10.4
4c	5 – 6 days	0.9	1.5
4d	7 days	73.4	80.5
5	Number of water supply days in the last week		
5a	0 days	0.9	2.4
5b	1 – 2 days	10.2	9.7
5c	3 – 4 days	22.5	14.8
5d	5 – 6 days	2.1	4.9
5e	7 days	64.3	68.1
6	Percentage of households reporting reliability of water supply days	94.8	86.5
_	Percentage of households reporting tap connections functioning		
7	continuously for more than 15 days in a month for last 12 months	94.1	84.6
8	Average number of times water is supplied on the days of supply		
8a	1 time	97.0	56.6
8b	2 times	2.9	28.2
8c	3 times	0.0	6.1
8d	4 times/24 hours	0.1	9.1
9	Percentage of households reporting reliability of supply for different supply timings	93.0	84.3
10	Percentage of households reporting adequate water pressure for different		
100	supply timings	04.6	00.1
10a	Morning	84.6	80.1
10b	Afternoon	61.2	84.6
10c	Evening	82.1	84.8
11	Percentage of households reported paying water tariff – separately or along with other taxes	94.5	52.8
12	Percentage of households reported receiving 55 lpcd or more	85.4	83.5
13	Percentage of households having potable water *	33.3	61.3
14	Percentage of households reporting regularity of supply	89.4	87.2
15	Percentage of households reporting functional tap connections	27.0	47.8
	Village level		
16	Percentage villages having functional water and sanitation committees	23.3	48.5
17	Percentage of functional schemes in the sample villages considering all schemes (supplying water any day in the last 7 days)	95.1	86.0
18	Percentage of in-village schemes having O&M undertaken by village water	92.5	83.1

SL.	INDICATOR	Karnataka	India
	and sanitation committee or by Panchayat		
19	Percentage of sample schemes reported having faced challenges in the last		
19	one year		
19a	Inadequate infrastructure	26.5	40.2
19b	Poor water availability at the source	46.3	33.0
19c	Poor maintenance	31.5	46.2
19d	Natural calamity	64.8	63.4
20	Percentage of schemes reporting measure to improve source sustainability	75.6	59.9
21	Number of sample villages found with no scheme (defunct/under	2	751
21	construction/not handed over/not constructed)	2	/31

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

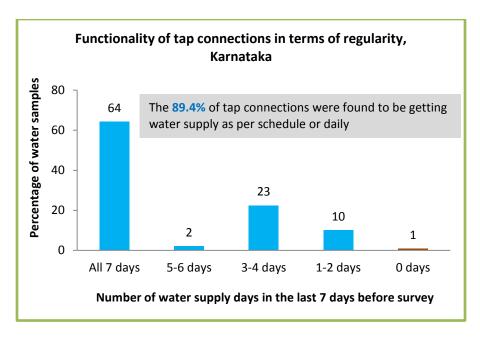
Functionality in terms of potability, Karnataka 60 Percentage of water samples 34 40 33 20 12 11 9 Samples 1 parameter 2 parameters 3 parameters More than 3 passed/zero failed failed failed parameters parameter failed failed

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

Base: Households with water quality testing done, N: 333

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 - Karnataka



Base: All Households, N: 4233

20

Tap

connections

found working water supply

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.

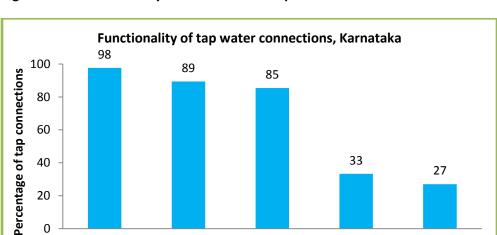


Fig 3: Overall functionality of the household tap connection - Karnataka

In terms of

regularity of

Base: Total count of tap connections considered for functionality assessment, N: 4179

In terms of

quantity ≥ 55

LPCD

A total of 333 water samples were tested as per BIS: 10,500 standards for all 13 parameters. Additionally 1 sample was tested for fluoride in the fluoride affected village, and 2 samples were tested for arsenic in

In terms of all

quality

parameters

27

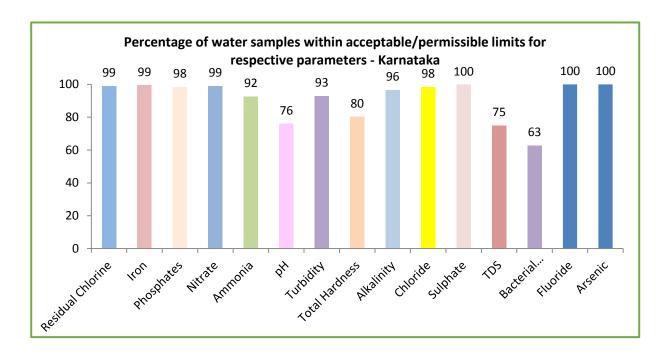
In terms of

quantity,

quality & regularity arsenic affected villages. 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 (96% or more) had Residual Chlorine, Iron, Phosphates, Nitrate, Chloride, Sulphate and Alkalinity within acceptable/permissible limits. Fluoride and Arsenic samples were within acceptable/permissible limits. The key water quality issues were Bacteriological presence (total coliform) in 37 percent of the water samples, TDS and pH in almost a fourth of the samples, and total hardness in a fifth of the samples. Moreover, 7 – 8 percent of the samples were found to have Ammonia and Turbidity beyond acceptable/permissible limits.

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



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



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



5. Conclusions

Karnataka has only 27 percent functional tap connections and this is low as compared with the national average. A high proportion (85.4%) of tap connections are estimated to supply more than 55 lpcd or more water and about 89 percent of tap connections were found to be supplying water daily or as per schedule. However, the proportion of taps being provided with potable water supply (33.3%) is low. 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 (28.8% households having adequate quantity and potable water; 30.5% households having potable water received on a regular basis; while 78.1% households had adequate quantity of water supply on a regular basis).

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The proportion of households reporting currently working tap connections is high (97.7%) in Karnataka. On a usual basis, almost three fourths of the households (73.4%) have reported receiving water supply on a daily basis, while the rest mostly have water supply 1–4 days per week. Almost all households (97%) have reported that water is supplied once a day and 93 percent of the households have reported that water supply timings are reliable. However, 95 percent of the households have reported that water supply is reliable as per the scheduled days of supply and 80 percent households reported adequate water pressure.

Almost all households (94.5%) 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 less than a fourth of the villages, but wherever available, almost all have reported taking responsibility for operation and maintenance activities of the PWS schemes. As reported by the communities 'natural calamities, and poor availability of water at the source' were the main challenges faced by the schemes. About 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,

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- List of villages where 15 FHTCs were not found is placed as Annexure 3,
- Indicative proportion of functional tap connections by districts is placed as Annexure 4, and
- List of villages where samples failed for given quality parameter is placed as Annexure 5

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

S.No	District Name	Block Name	Pancha yat Name	Village Name	Name of Largest Scheme In The Village	Type	Status of The Scheme	Remarks
1.	Chikma galur	Mudig ere	Idukani	K.Kela guru	Improvements on MWS scheme at Basthigadde	SVS	Under construction	Under construction
2.	Kolar	Mulba gal	Mothak apalli	Somar asana halli	Revival of MWS	SVS	Scheme is defunct	Somarasanahalli - in this village there are 4 sources. All are not working for past 5 months

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

S.No.	District name	Block name	Panchay at name	Village name	Name of largest scheme in the village	Туре	Remarks
1.	Bengalu ru Urban	Bangalore South	Konappa na Agrahara	Dodda Nagamangal a	Revival of PWS scheme	SVS	No FHTC. Water supply through tap stand only
2.	Chik Ballapur	Chikballapu r	Kondena hally	Kadaseegen ahally	Anganavadi school	SVS	No FHTC. Water supply through tap stand only
3.	Chikma galur	Mudigere	Gonibee du	Kammarago du	MWSS Kalgudde	SVS	14 public tap stands
4.	Dharwa d	Kundgol	Kubhihal	Hanchinal	Providing water supply to HPS in Hanchinal village	SVS	7 public tap stands
5.	Hassan	Arsikere	Puralehal li	Maratagere	Multi village water supply scheme to 530 habitations in Banavara and Gandasi blocks of Arsikere taluk in Hassan district	MVS	18 public tap stands
6.	Haveri	Ranebennu r	Kodiyala	Nalavagala	ST colony PWS revival at Nalavagala villege in Ranebennur taluk	SVS	In this village there no individual tap connection. There are 2 SVS schemes in the village, one is sponsored by Birla which is largely used for drinking purpose and the other scheme is sponsored by government under PWS but not used for drinking water purpose. As per local administration there are only stand posts available under both

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S.No.	District name	Block name	Panchay at name	Village name	Name of largest scheme in the village	Туре	Remarks
							schemes
7.	Kolar	Kolar	Doddaha sala	Dimbacham anahalli	Anganwadi water supply	SVS	2 overhead tanks connected to 250 public tap connections supplying water to in this village. No individual tap connections.
8.	Kolar	Kolar	Vadagur	Kalahastipur a	D F plant	SVS	No FHTC. Water supply through tap stand only
9.	Kolar	Mulbagal	Alangur	Bhatrahalli	MWSS	SVS	2 public tap stands
10.	Kolar	Srinivasapu ra	Arikunte	Neelatur	SC colony drilling of borewell associated with pipeline	SVS	No FHTC. Water supply through tap stand only
11.	Raichur	Sindhnur	Salgunda	Salgunda	O and M of W S S TO Dhadesugur and other 17 villages MVS	MVS	No FHTC. Water supply through tap stand only
12.	Raichur	Sindhnur	Yelekudl agi	Yelekudligi	Preparation of PSR of all habitation in Raichur Taluka Kurkunda and other 45 villages	MVS	There is no individual house tap collection in this village. Water supply goes to the main tank to 6 mini stand posts and also to a separate RO facility for drinking water.
13.	Uttara Kannad a	Mundgod	Naganur u	Chalgeri *	H.P.Schalgeri *	MVS	9 public taps for 8-10 households.

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

S.No.	District name	Block name	Panchay at name	Village name	Name of largest scheme in the village	Туре
1.	Kodagu	Virajpe t	Chembe bellur	Maggula	TFC 260414 public open well to Koppa Muslim colony at Maggula	SVS
2.	Virajpe T. Kodagu t She ri		Shettige	Nemmal e East and West	Providing water supply scheme to T. Shettigeri village	SVS
3.	Raichur	Raichur	Baidodd i	Wadwati	TFC Repairs to Pipe line at Wadawatti Village of Raichur Taluka of Raichur District.	SVS
4.	Tumku r	Sira	Handiku nte	Kallahalli	Providing revival of MWSS to Veeraganahalli Village	SVS
5.	Uttara Kannad a	Joida (Supa)	Shingara gaon	Amshet	ADG240517 Construction of Open well at Amshet village in Shingargoun Panchayat of Joida Taluka	SVS

Annexure 4: Indicative proportion of functional tap connections by districts

S.No.	Districts	Percentage Functional Taps
1.	Bagalkote	58.7
2.	Ballari	45.3
3.	Bangalore Rural	12.7
4.	Belagavi	12.0
5.	Bengaluru Urban	35.6
6.	Bidar	0.0
7.	Chamarajanagar	19.3
8.	Chik Ballapur	77.8
9.	Chikmagalur	0.0
10.	Chitradurga	0.0
11.	Dakshina Kannada	18.0
12.	Davangere	0.0
13.	Dharwad	33.3
14.	Gadag	5.3
15.	Hassan	53.3
16.	Haveri	80.8
17.	Kalaburagi	21.3
18.	Kodagu	10.1
19.	Kolar	45.3
20.	Koppal	72.0
21.	Mandya	20.0
22.	Mysuru	20.0
23.	Raichur	0.0
24.	Ramanagaram	25.3

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S.No.	Districts	Percentage Functional Taps
25.	Shivamogga	87.3
26.	Tumkur	10.9
27.	Udupi	14.0
28.	Uttara Kannada	7.4
29.	Vijayapura(Bijapur)	10.0
30.	Yadgir	20.0

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

S.No.	District name	where samples failed Block name	Gram panchayat name	
		ples for Turbidity test		.0.
1.	Ballari	Ballari	Rupanagudi	Rupanagudi
2.	Belagavi	Gokak	Dandapur	Ganeshwadi
3.	Bengaluru Urban	Bangalore East	Doddabanahalli	Bidare Agrahara
4.	Bidar	Basavakalyan	Chikkanagaon	Chicknagaon
5.	Bidar	Humnabad	Kankatta	Hunsgera
6.	Chamarajanagar	Chamarajanagar	Sagade	Sagade
7.	Chikmagalur	Chikkamagalur	Malaloor	Malaloor
8.	Chikmagalur	Chikkamagalur	Hiregouja	Chikkagowja
9.	Chikmagalur	Kadur	Singatagere	Singatagere
10.	Chikmagalur	Mudigere	Gonibeedu	Kammaragodu
11.	Chikmagalur	Mudigere	Tripura	Tripura
12.	Chikmagalur	Mudigere	Hesagal	Bilagula
13.	Dakshina Kannada	Mangalore	Belma	Belma
14.	Dakshina Kannada	Mangalore	Shirthady	Mudukonaje
15.	Kalaburagi	Afzalpur	Chowadapur	Chinamgera
16.	Kodagu	Somvarpet	Mullusoge	Mullusoge
17.	Udupi	Udupi	Kurkalu	Kurkalu
18.	Vijayapura(Bijapur)	Indi	Revatagaon	Revatagaon
19.	Vijayapura(Bijapur)	Sindgi	Kerutagi	Kerutagi
20.	Vijayapura(Bijapur)	Sindgi	Yankanchi	Khainur
21.	Vijayapura(Bijapur)	Vijayapur	Jumanal	Jummanal
22.	Yadgir	Yadgir	Thangunda	Vishwaspur
23.	Yadgir	Yadgir	Minaspur	Minaspur
24.	Yadgir	Yadgir	Minaspur	Minaspur
Villages	with failed water san	nples for pH test		
1.	Bagalkote	Badami	Halakurki	Halakurki
2.	Bagalkote	Badami	Adagal	Adagal
3.	Bagalkote	Bilagi	Galagali	Galagali
4.	Bangalore Rural	Devanhalli	Jalige	Hegganahally
5.	Belagavi	Chikodi	Ingali	Ingali
6.	Belagavi	Gokak	Dandapur	Ganeshwadi

S.No.	District name	Block name	Gram panchayat name	Village name
7.	Belagavi	Hukkeri	Madihalli	Madihalli
8.	Belagavi	Raybag	Hidkal	Hidkal
9.	Belagavi	Raybag	Hidkal	Hidkal
10.	Bengaluru Urban	Anekal	Shantipura	Choodasandra
11.	Bengaluru Urban	Bangalore North	Hesaraghatta	Dasenahalli
12.	Bidar	Aurad	Koutha (B)	Koudgaon
13.	Bidar	Aurad	Jambgi	Wallepur
14.	Bidar	Aurad	Sonala	Sonala Wadi
15.	Bidar	Basavakalyan	Chikkanagaon	Chicknagaon
16.	Bidar	Basavakalyan	Morkhandi	Talbhog
17.	Bidar	Basavakalyan	Rajola	Rajola
18.	Bidar	Basavakalyan	Rajola	Rajola
19.	Bidar	Basavakalyan	Nirgudi	Rolla
20.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
21.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
22.	Bidar	Bidar	Rekulgi	Rekulgi
23.	Bidar	Bidar	Rekulgi	Rekulgi
24.	Bidar	Humnabad	Kankatta	Hunsgera
25.	Chamarajanagar	Chamarajanagar	Arakalavadi	Yanagahally
26.	Chamarajanagar	Chamarajanagar	Masanapura	Masanapura
27.	Chamarajanagar	Chamarajanagar	Sagade	Sagade
28.	Chamarajanagar	Chamarajanagar	Bagali	Bagali
29.	Chamarajanagar	Gundlupet	Shindanapura	Dhoddathuppur
30.	Chikmagalur	Mudigere	Gonibeedu	Kammaragodu
31.	Dakshina Kannada	Beltangady	Hosangady	Badakody
32.	Hassan	Holenarsipur	Kattebelagule	Kattebelagule
33.	Kalaburagi	Afzalpur	Chowadapur	Chinamgera
34.	Kalaburagi	Chittapur	Chincholi (H)	Chincholi (H)
35.	Kalaburagi	Chittapur	Kalagi	Kalagi
36.	Kalaburagi	Chittapur	Aloor (B)	Aloor (B)
37.	Kalaburagi	Kalaburgi	Saradagi (B)	Nadisinnur
38.	Kalaburagi	Sedam	Madna	Madna
39.	Kodagu	Somvarpet	Mullusoge	Mullusoge
40.	Kodagu	Somvarpet	Nerugalale	Nerugalale
41.	Kodagu	Virajpet	Kadanoor	Kadanoor
42.	Koppal	Koppal	Kunikera	Lachanakera
43.	Koppal	Kushtagi	Nilogal	Nilogal
44.	Mandya	Maddur	Nagarakere	Nagarakere
45.	Mandya	Malvalli	Hadli	Megalapura
46.	Mandya	Mandya	Shivally	Maradipura
47.	Mysuru	Mysore	Sinduvally	Sinduvally
48.	Mysuru	Mysore	Yadakola	Yadakola

S.No.	District name	Block name	Gram panchayat name	Village name
49.	Mysuru	Nanjangud	Hosakote	Hosakote
50.	Raichur	Raichur	Baidoddi	Wadwati
51.	Raichur	Raichur	Talmari	Talmari
52.	Raichur	Sindhnur	Yelekudlagi	Yelekudligi
53.	Raichur	Sindhnur	Gorebal	Gorebal
54.	Raichur	Sindhnur	Salgunda	Salgunda
55.	Ramanagaram	Ramanagaram	Hunasanahalli	Hebbakodi
56.	Tumkur	Kunigal	Yediyur	Beeraganahalli
57.	Tumkur	Pavagada	Maridasanahally	Thippainadurga
58.	Udupi	Kundapura	Kollur	Kollur
59.	Udupi	Udupi	Yadthadi	Herady
60.	Udupi	Udupi	Kota	Manoor
61.	Uttara Kannada	Karwar	Shirawad	Shirwad
62.	Vijayapura(Bijapur)	Indi	Revatagaon	Revatagaon
63.	Vijayapura(Bijapur)	Muddebihal	Alur	Hadagali
64.	Vijayapura(Bijapur)	Muddebihal	Alur	Hadagali
65.	Vijayapura(Bijapur)	Sindgi	D.Navadagi	Devaranavadagi
66.	Vijayapura(Bijapur)	Sindgi	Kerutagi	Kerutagi
67.	Vijayapura(Bijapur)	Sindgi	Yankanchi	Khainur
68.	Vijayapura(Bijapur)	Vijayapur	Gunadal	Kengalgutti
69.	Vijayapura(Bijapur)	Vijayapur	Jumanal	Jummanal
70.	Vijayapura(Bijapur)	Vijayapur	Nidoni	Tiganibidari
71.	Yadgir	Yadgir	Thangunda	Vishwaspur
72.	Yadgir	Yadgir	Kowlur	Zinkera
73.	Yadgir	Yadgir	Malhar	Malhar
74.	Yadgir	Yadgir	Mundarga	Mundarga
75.	Yadgir	Yadgir	Yargol	Yargol
76.	Yadgir	Yadgir	Minaspur	Minaspur
77.	Yadgir	Yadgir	Minaspur	Minaspur
78.	Yadgir	Yadgir	Mundarga	Belgera
79.	Yadgir	Yadgir	Mundarga	Belgera
80.	Yadgir	Yadgir	Konkal	Konkal
Villages	with failed water san	nples for Total Hardness	test	
1.	Belagavi	Gokak	Dandapur	Ganeshwadi
2.	Belagavi	Gokak	Rajapur	Rajapur
3.	Belagavi	Saundatti	Kadabi	Kadabi
4.	Bengaluru Urban	Anekal	Shantipura	Choodasandra
5.	Bengaluru Urban	Bangalore North	Hesaraghatta	Dasenahalli
6.	Bengaluru Urban	Bangalore South	Channenahalli	C Jattipalya
7.	Bengaluru Urban	Bangalore South	Konappana Agrahara	Dodda Nagamangala
8.	Bidar	Aurad	Koutha (B)	Koudgaon
9.	Bidar	Aurad	Jambgi	Wallepur

S.No.	District name	Block name	Gram panchayat name	Village name
10.	Bidar	Aurad	Sonala	Sonala Wadi
11.	Bidar	Basavakalyan	Chikkanagaon	Chicknagaon
12.	Bidar	Basavakalyan	Morkhandi	Talbhog
13.	Bidar	Basavakalyan	Rajola	Rajola
14.	Bidar	Basavakalyan	Rajola	Rajola
15.	Bidar	Basavakalyan	Nirgudi	Rolla
16.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
17.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
18.	Bidar	Bidar	Rekulgi	Rekulgi
19.	Bidar	Bidar	Rekulgi	Rekulgi
20.	Bidar	Humnabad	Kankatta	Hunsgera
21.	Chamarajanagar	Chamarajanagar	Arakalavadi	Yanagahally
22.	Chamarajanagar	Chamarajanagar	Masanapura	Masanapura
23.	Chamarajanagar	Chamarajanagar	Sagade	Sagade
24.	Chamarajanagar	Chamarajanagar	Bagali	Bagali
25.	Chamarajanagar	Gundlupet	Shindanapura	Dhoddathuppur
26.	Chitradurga	Chitradurga	Ingaladal	Ingaladalu
27.	Chitradurga	Hiriyur	Yalladakere	Yelladakere
28.	Chitradurga	Holalkere	Muthugadur	Kagalagere
29.	Chitradurga	Holalkere	Madderu	T.Yemmiganur
30.	Chitradurga	Holalkere	Shivapura	Abradasikatte
31.	Davangere	Channagiri	Hiremalali	Melanayakanakatte
32.	Davangere	Harihara	Kunibelekere	Kunibelakere
33.	Davangere	Harihara	Kunibelekere	Kunibelakere
34.	Davangere	Harihara	Kunibelekere	Kunibelakere
35.	Davangere	Harihara	Kunibelekere	Kunibelakere
36.	Davangere	Honnali	Guddehalli	Hosakoppa
37.	Mandya	Maddur	Nagarakere	Nagarakere
38.	Mandya	Malvalli	Hadli	Megalapura
39.	Mandya	Mandya	Shivally	Maradipura
40.	Raichur	Manvi	Sadapur	Korvi
41.	Raichur	Manvi	Hirehanagi	Goldinni
42.	Ramanagaram	Kanakapura	Doddamaralavadi	Doddamaralavadi
43.	Ramanagaram	Kanakapura	Sathanur	Chikkalahalli
44.	Ramanagaram	Ramanagaram	Hunasanahalli	Hebbakodi
45.	Tumkur	Tumkur	Swandenahalli	Beeranakallu
46.	Tumkur	Tumkur	Swandenahalli	Beeranakallu
47.	Vijayapura(Bijapur)	Indi	Revatagaon	Revatagaon
48.	Vijayapura(Bijapur)	Muddebihal	Alur	Hadagali
49.	Vijayapura(Bijapur)	Muddebihal	Alur	Hadagali
50.	Vijayapura(Bijapur)	Muddebihal	Tangadagi	Gangur
51.	Vijayapura(Bijapur)	Sindgi	D.Navadagi	Devaranavadagi

S.No.	District name	Block name	Gram panchayat name	Village name	
52.	Vijayapura(Bijapur)	Sindgi	Kerutagi	Kerutagi	
53.	Vijayapura(Bijapur)	Sindgi	Yankanchi	Khainur	
54.	Vijayapura(Bijapur)	Vijayapur	Gunadal	Kengalgutti	
55.	Vijayapura(Bijapur)	Vijayapur	Jumanal	Jummanal	
56.	Vijayapura(Bijapur)	Vijayapur	Nidoni	Tiganibidari	
57.	Yadgir	Yadgir	Thangunda	Vishwaspur	
58.	Yadgir	Yadgir	Kowlur	Zinkera	
59.	Yadgir	Yadgir	Malhar	Malhar	
60.	Yadgir	Yadgir	Mundarga	Mundarga	
61.	Yadgir	Yadgir	Yargol	Yargol	
62.	Yadgir	Yadgir	Minaspur	Minaspur	
63.	Yadgir	Yadgir	Minaspur	Minaspur	
64.	Yadgir	Yadgir	Mundarga	Belgera	
65.	Yadgir	Yadgir	Mundarga	Belgera	
66.	Yadgir	Yadgir	Konkal	Konkal	
Villages	with failed water san	ples for Total Alkalinity	test		
1.	Belagavi	Gokak	Dandapur	Ganeshwadi	
2.	Chitradurga	Chitradurga	Ingaladal	Ingaladalu	
3.	Chitradurga	Hiriyur	Yalladakere	Yelladakere	
4.	Chitradurga	Holalkere	Madderu	T.Yemmiganur	
5.	Davangere	Channagiri	Hiremalali	Melanayakanakatte	
6.	Davangere	Harihara	Kunibelekere	Kunibelakere	
7.	Davangere	Harihara	Kunibelekere	Kunibelakere	
8.	Davangere	Harihara	Kunibelekere	Kunibelakere	
9.	Davangere	Honnali	Guddehalli	Hosakoppa	
10.	Kodagu	Somvarpet	Thorenoor	Thorenoor	
11.	Udupi	Karkal	Palli	Ninjoor	
12.	Uttara Kannada	Mundgod	Pala	Pala	
Villages	with failed water san	ples for Chloride test			
1.	Chitradurga	Chitradurga	Ingaladal	Ingaladalu	
2.	Davangere	Harihara	Kunibelekere	Kunibelakere	
3.	Davangere	Harihara	Kunibelekere	Kunibelakere	
4.	Dharwad	Kundgol	Sounshi	Sounshi	
5.	Haveri	Ranebennur	Kodiyala	Nalavagala	
6.	Raichur	Raichur	Talmari	Talmari	
Villages with failed water samples for Ammonia test					
1.	Bangalore Rural	Devanhalli	Bidaluru	Savakanahally	
2.	Bengaluru Urban	Bangalore South	Channenahalli	C Jattipalya	
3.	Chitradurga	Molakalmuru	Rampura	Rampura	
4.	Dakshina Kannada	Puttur	Alankaru	Alankaru	
5.	Dakshina Kannada	Puttur	Savanooru	Palthady	
6.	Dharwad	Kalghatgi	Mukkal	Mukkal	

S.No.	District name	Block name	Gram panchayat name	Village name			
7.	Gadag	Shirahatti	Hullura	Budihal			
8.	Gadag	Shirahatti	Doddur	Doddur			
9.	Hassan	Arsikere	Puralehalli	Maratagere			
10.	Hassan	Hassan	Gorur	Gorur			
11.	Kodagu	Virajpet	Nittur	Kottageri			
12.	Mysuru	Krishnarajanagara	Bherya	Bherya			
13.	Mysuru	Mysore	Sinduvally	Sinduvally			
14.	Mysuru	Tirumakudal-Narsipur	Hegguru	Hegguru			
15.	Raichur	Manvi	Neermanvi	Neermanvi			
16.	Raichur	Manvi	Gorkal	Gorkal			
17.	Ramanagaram	Kanakapura	I.Gollahalli	Kotekoppa			
18.	Udupi	Karkal	Marne	Hermunde			
19.	Udupi	Udupi	Kota	Manoor			
20.	Uttara Kannada	Joida (Supa)	Shingaragaon	Amshet			
21.	Uttara Kannada	Mundgod	Gunjavati	Gunjavati			
22.	Uttara Kannada	Mundgod	Katur	Mudasali			
23.	Uttara Kannada	Mundgod	Naganuru	Chalgeri *			
24.	Uttara Kannada	Mundgod	Pala	Pala			
25.	Uttara Kannada	Yellapur	Idagundi	Arbail			
Villages	with failed water san	nples for Phosphate test					
1.	Chik Ballapur	Chintamani	Kaiwara	Banahally			
2.	Hassan	Arsikere	Puralehalli	Maratagere			
3.	Mysuru	Mysore	Sinduvally	Sinduvally			
4.	Mysuru	Nanjangud	Hedathale	Hedathale			
5.	Mysuru	Nanjangud	Hosakote	Hosakote			
6.	Uttara Kannada	Mundgod	Naganuru	Chalgeri *			
Villages	Villages with failed water samples for Residual Chlorine test						
1.	Belagavi	Raybag	Hidkal	Hidkal			
2.	Belagavi	Raybag	Hidkal	Hidkal			
3.	Kalaburagi	Kalaburgi	Saradagi (B)	Nadisinnur			
4.	Udupi	Karkal	Palli	Ninjoor			
Villages	with failed water san	nples for Iron test					
1.	Belagavi	Raybag	Hidkal	Hidkal			
2.	Dakshina Kannada	Mangalore	Belma	Belma			
Villages	Villages with failed water samples for Nitrate test						
1.	Belagavi	Raybag	Hidkal	Hidkal			
2.	Belagavi	Raybag	Hidkal	Hidkal			
3.	Kalaburagi	Kalaburgi	Khandal	Itaga (K)			
4.	Raichur	Raichur	Talmari	Talmari			
Villages	Villages with failed water samples for Sulphate test						
1.	Dakshina Kannada	Mangalore	Belma	Belma			
Villages	Villages with failed water samples for Total Dissolved Solids test						

S.No.	District name	Block name	Gram panchayat name	Village name
1.	Bagalkote	Mudhol	Halagali	Halagali
2.	Bangalore Rural	Dodballapur	Dargajogihalli	Dargajogihalli
3.	Belagavi	Athani	Kokatanur	Kokatanur
4.	Belagavi	Bailhongal	Kalabhavi	Kadatnal
5.	Belagavi	Chikodi	Ingali	Ingali
6.	Belagavi	Gokak	Dandapur	Ganeshwadi
7.	Belagavi	Gokak	Rajapur	Rajapur
8.	Belagavi	Raybag	Hidkal	Hidkal
9.	Belagavi	Raybag	Hidkal	Hidkal
10.	Belagavi	Saundatti	Kadabi	Kadabi
11.	Bengaluru Urban	Anekal	Shantipura	Choodasandra
12.	Bengaluru Urban	Bangalore North	Hesaraghatta	Dasenahalli
13.	Bengaluru Urban	Bangalore South	Channenahalli	C Jattipalya
14.	Bengaluru Urban	Bangalore South	Konappana Agrahara	Dodda Nagamangala
15.	Bidar	Aurad	Koutha (B)	Koudgaon
16.	Bidar	Aurad	Jambgi	Wallepur
17.	Bidar	Aurad	Sonala	Sonala Wadi
18.	Bidar	Basavakalyan	Chikkanagaon	Chicknagaon
19.	Bidar	Basavakalyan	Morkhandi	Talbhog
20.	Bidar	Basavakalyan	Rajola	Rajola
21.	Bidar	Basavakalyan	Rajola	Rajola
22.	Bidar	Basavakalyan	Nirgudi	Rolla
23.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
24.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
25.	Bidar	Bidar	Rekulgi	Rekulgi
26.	Bidar	Bidar	Rekulgi	Rekulgi
27.	Bidar	Humnabad	Kankatta	Hunsgera
28.	Chamarajanagar	Chamarajanagar	Arakalavadi	Yanagahally
29.	Chamarajanagar	Chamarajanagar	Masanapura	Masanapura
30.	Chamarajanagar	Chamarajanagar	Sagade	Sagade
31.	Chamarajanagar	Chamarajanagar	Bagali	Bagali
32.	Chamarajanagar	Gundlupet	Shindanapura	Dhoddathuppur
33.	Chitradurga	Chitradurga	Ingaladal	Ingaladalu
34.	Chitradurga	Hiriyur	Yalladakere	Yelladakere
35.	Chitradurga	Hiriyur	Eshwaragere	Huvinahole
36.	Chitradurga	Holalkere	Muthugadur	Kagalagere
37.	Chitradurga	Holalkere	Madderu	T.Yemmiganur
38.	Chitradurga	Holalkere	Shivapura	Abradasikatte
39.	Chitradurga	Hosadurga	Doddghatta	Banasihalli
40.	Chitradurga	Molakalmuru	Rampura	Rampura
41.	Chitradurga	Molakalmuru	Rampura	Rampura
42.	Chitradurga	Molakalmuru	Rampura	Rampura

S.No.	District name	Block name	Gram panchayat name	Village name
43.	Chitradurga	Molakalmuru	Rampura	Rampura
44.	Davangere	Channagiri	Hiremalali	Melanayakanakatte
45.	Davangere	Harihara	Kunibelekere	Kunibelakere
46.	Davangere	Harihara	Kunibelekere	Kunibelakere
47.	Davangere	Harihara	Kunibelekere	Kunibelakere
48.	Davangere	Harihara	Kunibelekere	Kunibelakere
49.	Davangere	Honnali	Guddehalli	Hosakoppa
50.	Dharwad	Kundgol	Betadur	Betadur
51.	Dharwad	Kundgol	Sounshi	Sounshi
52.	Haveri	Ranebennur	Kodiyala	Nalavagala
53.	Mandya	Maddur	Chamanahalli	Chamanahalli
54.	Mandya	Malvalli	Hadli	Megalapura
55.	Mandya	Malvalli	Yathambadi	Anthravalli
56.	Mandya	Mandya	Hulivana	Hulivana
57.	Raichur	Manvi	Sadapur	Korvi
58.	Raichur	Manvi	Hirehanagi	Goldinni
59.	Raichur	Raichur	Talmari	Talmari
60.	Raichur	Sindhnur	Salgunda	Salgunda
61.	Ramanagaram	Kanakapura	Doddamaralavadi	Doddamaralavadi
62.	Ramanagaram	Kanakapura	I.Gollahalli	Kotekoppa
63.	Ramanagaram	Kanakapura	Sathanur	Chikkalahalli
64.	Ramanagaram	Ramanagaram	Hunasanahalli	Hebbakodi
65.	Ramanagaram	Ramanagaram	Sugganahalli	Hagalahalli
66.	Tumkur	Pavagada	Nyayadakunte	Kodigehally
67.	Tumkur	Sira	Handikunte	Kallahalli
68.	Vijayapura(Bijapur)	Indi	Revatagaon	Revatagaon
69.	Vijayapura(Bijapur)	Muddebihal	Alur	Hadagali
70.	Vijayapura(Bijapur)	Muddebihal	Alur	Hadagali
71.	Vijayapura(Bijapur)	Muddebihal	Tangadagi	Gangur
72.	Vijayapura(Bijapur)	Sindgi	D.Navadagi	Devaranavadagi
73.	Vijayapura(Bijapur)	Sindgi	Kerutagi	Kerutagi
74.	Vijayapura(Bijapur)	Sindgi	Yankanchi	Khainur
75.	Vijayapura(Bijapur)	Vijayapur	Gunadal	Kengalgutti
76.	Vijayapura(Bijapur)	Vijayapur	Jumanal	Jummanal
77.	Vijayapura(Bijapur)	Vijayapur	Nidoni	Tiganibidari
78.	Yadgir	Yadgir	Thangunda	Vishwaspur
79.	Yadgir	Yadgir	Mundarga	Mundarga
80.	Yadgir	Yadgir	Yargol	Yargol
81.	Yadgir	Yadgir	Minaspur	Minaspur
82.	Yadgir	Yadgir	Minaspur	Minaspur
83.	Yadgir	Yadgir	Mundarga	Belgera
84.	Yadgir	Yadgir	Konkal	Konkal

S.No.	District name	Block name	Gram panchayat name	Village name
Villages	with failed water san	nples for Bacteriological	present/ absence test us	ing H2S vials
1.	Bagalkote	Mudhol	Halagali	Halagali
2.	Ballari	Ballari	B.D.Halli	B.D.Halli
3.	Ballari	Hospet	Suggenahalli	Honnahalli
4.	Ballari	Hospet	P.K.Halli	P.K. Halli
5.	Ballari	Kudligi	Harakbhavi	Harakabhavi
6.	Bangalore Rural	Devanhalli	Bidaluru	Savakanahally
7.	Bangalore Rural	Devanhalli	Koramangala	Koramangala
8.	Bangalore Rural	Devanhalli	Koramangala	Koramangala
9.	Bangalore Rural	Devanhalli	Vishwanathapura	Soluru
10.	Bangalore Rural	Devanhalli	Anneswara	Bychapura
11.	Bangalore Rural	Dodballapur	Doddabelavangala	Doddabelavangala
12.	Bangalore Rural	Hoskote	Samethanahally	Samethanahally
13.	Belagavi	Chikodi	Ingali	Ingali
14.	Belagavi	Gokak	Dandapur	Ganeshwadi
15.	Belagavi	Saundatti	Kadabi	Kadabi
16.	Belagavi	Saundatti	Kadabi	Kadabi
17.	Bengaluru Urban	Bangalore East	Doddabanahalli	Bidare Agrahara
18.	Bengaluru Urban	Bangalore North	Arakere	Kadathanamale
19.	Bengaluru Urban	Bangalore South	Konappana Agrahara	Dodda Nagamangala
20.	Bidar	Aurad	Koutha (B)	Koudgaon
21.	Bidar	Aurad	Sonala	Sonala Wadi
22.	Bidar	Bhalki	Byalheli (K)	Byalhalli (K)
23.	Chamarajanagar	Chamarajanagar	Masanapura	Masanapura
24.	Chamarajanagar	Chamarajanagar	Jyothigowdanapura	Jyothigowdanapura
25.	Chamarajanagar	Chamarajanagar	Bagali	Bagali
26.	Chamarajanagar	Chamarajanagar	Bagali	Bagali
27.	Chamarajanagar	Gundlupet	Agathagowdanahalli	Dhadadhahalli
28.	Chamarajanagar	Kollegala	Singanalluru	Singanalluru
29.	Chik Ballapur	Chikballapur	Kondenahally	Kadaseegenahally
30.	Chik Ballapur	Chintamani	Kotagal	Doddihalli
31.	Chik Ballapur	Chintamani	Kaiwara	Banahally
32.	Chikmagalur	Kadur	Bisalehalli	Laxmipura
33.	Chikmagalur	Mudigere	Halemudigere	Kunnahalli
34.	Chikmagalur	Tarikere	Kenchikoppa	Malikoppa
35.	Chitradurga	Hiriyur	Yalladakere	Yelladakere
36.	Chitradurga	Hiriyur	Eshwaragere	Huvinahole
37.	Chitradurga	Hiriyur	Ikkanur	Ikkanur
38.	Chitradurga	Holalkere	Muthugadur	Kagalagere
39.	Chitradurga	Holalkere	Madderu	T.Yemmiganur
40.	Chitradurga	Holalkere	Shivapura	Abradasikatte
41.	Chitradurga	Hosadurga	Doddghatta	Banasihalli

S.No.	District name	Block name	Gram panchayat name	Village name
42.	Chitradurga	Molakalmuru	Jahajir Buddanahally	Nallareddikondapura
43.	Chitradurga	Molakalmuru	Rampura	Rampura
44.	Chitradurga	Molakalmuru	Rampura	Rampura
45.	Chitradurga	Molakalmuru	Rampura	Rampura
46.	Chitradurga	Molakalmuru	Rampura	Rampura
47.	Chitradurga	Molakalmuru	Rampura	Rampura
48.	Dakshina Kannada	Bantwal	Kavalapaduru	Kadabettu
49.	Dakshina Kannada	Mangalore	Konaje	Konaje
50.	Dakshina Kannada	Mangalore	Shirthady	Mudukonaje
51.	Dakshina Kannada	Puttur	Savanooru	Palthady
52.	Davangere	Channagiri	Maravanji	Beedugondana Halli
53.	Davangere	Channagiri	Kanivebilachi	Kengapura
54.	Davangere	Channagiri	Joladalu	K.Ganada Katte
55.	Davangere	Channagiri	Hiremalali	Melanayakanakatte
56.	Davangere	Channagiri	Kempanahalli	Kempanahalli
57.	Davangere	Channagiri	Tanigere	Maradi
58.	Davangere	Davanagere	Anaberu	Shankaranahalli
59.	Davangere	Harihara	Kunibelekere	Kunibelakere
60.	Davangere	Harihara	Kunibelekere	Kunibelakere
61.	Davangere	Harihara	Kunibelekere	Kunibelakere
62.	Davangere	Harihara	Kunibelekere	Kunibelakere
63.	Davangere	Harihara	Kunibelekere	Kunibelakere
64.	Davangere	Harihara	Kunibelekere	Kunibelakere
65.	Davangere	Harihara	Vasana	Vasana
66.	Davangere	Harihara	Vasana	Vasana
67.	Davangere	Harihara	Vasana	Vasana
68.	Davangere	Honnali	Guddehalli	Hosakoppa
69.	Dharwad	Kalghatgi	Galgi	Hulakoppa
70.	Gadag	Gadag	Beladhadi	Bramhanandapur
71.	Gadag	Gadag	Asundi	Asundi
72.	Gadag	Mundaragi	Bidanala	Beednal Tanda
73.	Gadag	Mundaragi	Bagewadi	Jyalawadagi
74.	Gadag	Mundaragi	Korlahalli	Korlahalli
75.	Gadag	Ron	Mushigeri	Nellur
76.	Gadag	Ron	Mallapur	Sandigawad
77.	Gadag	Shirahatti	Hullura	Budihal
78.	Gadag	Shirahatti	Doddur	Doddur
79.	Haveri	Ranebennur	Kodiyala	Nalavagala
80.	Kalaburagi	Chittapur	Chincholi (H)	Chincholi (H)
81.	Kalaburagi	Kalaburgi	Saradagi (B)	Nadisinnur
82.	Kodagu	Somvarpet	Thorenoor	Thorenoor
83.	Kodagu	Somvarpet	Thorenoor	Thorenoor

S.No.	District name	Block name	Gram panchayat name	Village name
84.	Kodagu	Virajpet	Balele	Devanur
85.	Kolar	Bangarapet	Chinnakote	Chinnakote
86.	Kolar	Kolar	Doddahasala	Dimbachamanahalli
87.	Kolar	Kolar	Holur	Holur
88.	Kolar	Srinivasapura	Arikunte	Neelatur
89.	Mandya	Krishnarajpet	Maduvinakodi	Maddikyathanahalli
90.	Mandya	Pandavapura	Halebeedu	Halebeedu
91.	Mysuru	Hunsur	Singaramarenhalli	Singaramaranahalli
92.	Mysuru	Hunsur	Uyigondanahalli	Kuddineerumuddanahalli
93.	Raichur	Manvi	Sadapur	Korvi
94.	Raichur	Manvi	Neermanvi	Neermanvi
95.	Raichur	Manvi	Gorkal	Gorkal
96.	Raichur	Manvi	Janekal	Aldal
97.	Raichur	Raichur	Baidoddi	Wadwati
98.	Raichur	Raichur	Talmari	Talmari
99.	Ramanagaram	Channapatna	Rampura	Appagere
100.	Ramanagaram	Kanakapura	Doddamaralavadi	Doddamaralavadi
101.	Ramanagaram	Kanakapura	I.Gollahalli	Kotekoppa
102.	Ramanagaram	Kanakapura	I.Gollahalli	Kotekoppa
103.	Ramanagaram	Magadi	Bittasandra	Bittasandra
104.	Tumkur	Kunigal	Yediyur	Beeraganahalli
105.	Tumkur	Pavagada	Nyayadakunte	Kodigehally
106.	Tumkur	Pavagada	Maridasanahally	Thippainadurga
107.	Tumkur	Pavagada	Kotagudda	Kotagudda
108.	Tumkur	Pavagada	Nyayadakunte	Gollanakunte
109.	Tumkur	Sira	Handikunte	Kallahalli
110.	Tumkur	Tiptur	Nagaraghatta	Hedagarahalli
111.	Tumkur	Tumkur	Bugadanahalli	Bugadanahalli
112.	Udupi	Karkal	Hirgana	Hirgana
113.	Udupi	Karkal	Palli	Ninjoor
114.	Udupi	Udupi	Shirva	Shirva
115.	Uttara Kannada	Mundgod	Gunjavati	Gunjavati
116.	Uttara Kannada	Mundgod	Pala	Pala
117.	Vijayapura(Bijapur)	Sindgi	Kerutagi	Kerutagi
118.	Vijayapura(Bijapur)	Sindgi	Yankanchi	Khainur
119.	Vijayapura(Bijapur)	Vijayapur	Jumanal	Jummanal
120.	Yadgir	Yadgir	Thangunda	Vishwaspur
121.	Yadgir	Yadgir	Yargol	Yargol
122.	Yadgir	Yadgir	Minaspur	Minaspur
123.	Yadgir	Yadgir	Minaspur	Minaspur
124.	Yadgir	Yadgir	Konkal	Konkal