



**NRDMS CENTRE
ZILLA PANCHAYATH, CHIKKABALLAPUR**

**Technical Report
December-March 2026**

Submitted By:

**Manjula R Chandugol
Project Associate
Zilla Panchayath
Chikkaballapur-01**

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Submitted to:

**Secretary
KSCST
IISc Campus
Bangalore-12**

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1. Major Activities Carried Out during the period of December-March 2026:

Uses of GIS for Rural water supply & Sanitation Department, Zilla Panchayath.

1. Objective

As per the instructions of Respected Chief Executive Officer, it was directed to identify the Government and Private RO Plants installed within a 1 km radius in Chikkaballapur District and to present their locations and operational coverage through maps at the Gram Panchayath level.

Accordingly, the required information was collected from the concerned department, and GIS maps were prepared using NRDMS by applying GIS technology.

2. Methodology

The details of RO Plants at the Taluk-wise and Gram Panchayat-wise levels were obtained from the Rural Water Supply and Sanitation (RWS) Department.

The collected information was compiled and prepared as geo-spatial data. Using ArcGIS 10.3 software, the data was entered into the database and GIS maps were generated. The prepared maps were then submitted to the Rural Water Supply and Sanitation Department.

3. Data Requirements

The following data were required for preparing the GIS maps:

1. Taluk-wise details of RO Plants
2. Gram Panchayath-wise details of RO Plants
3. Latitude and Longitude coordinates of each RO Plant location

4. Uses of GIS Maps

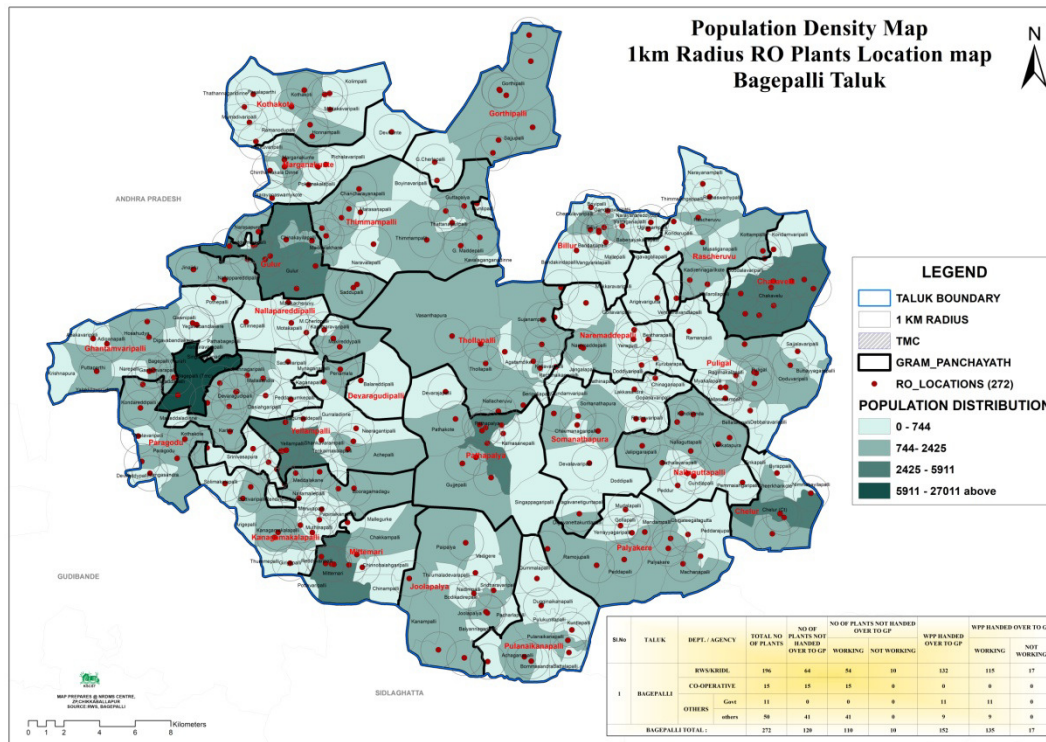
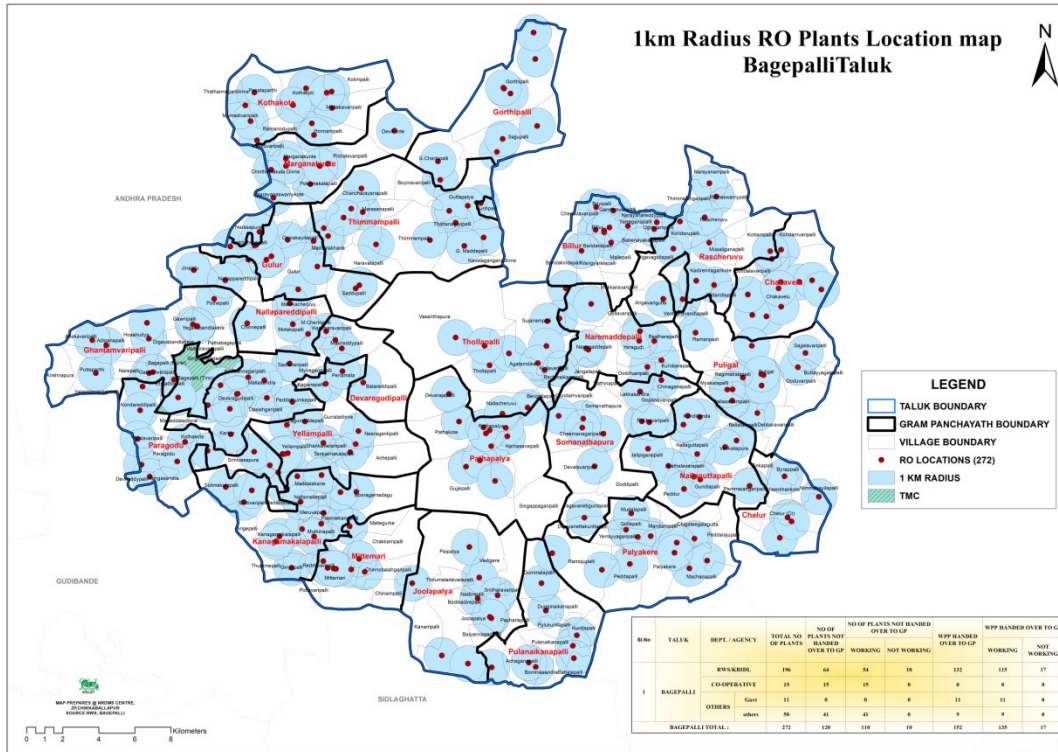
The GIS maps help in clearly identifying the locations of Government and Private RO Plants installed in the district at the Taluk and Gram Panchayath levels.

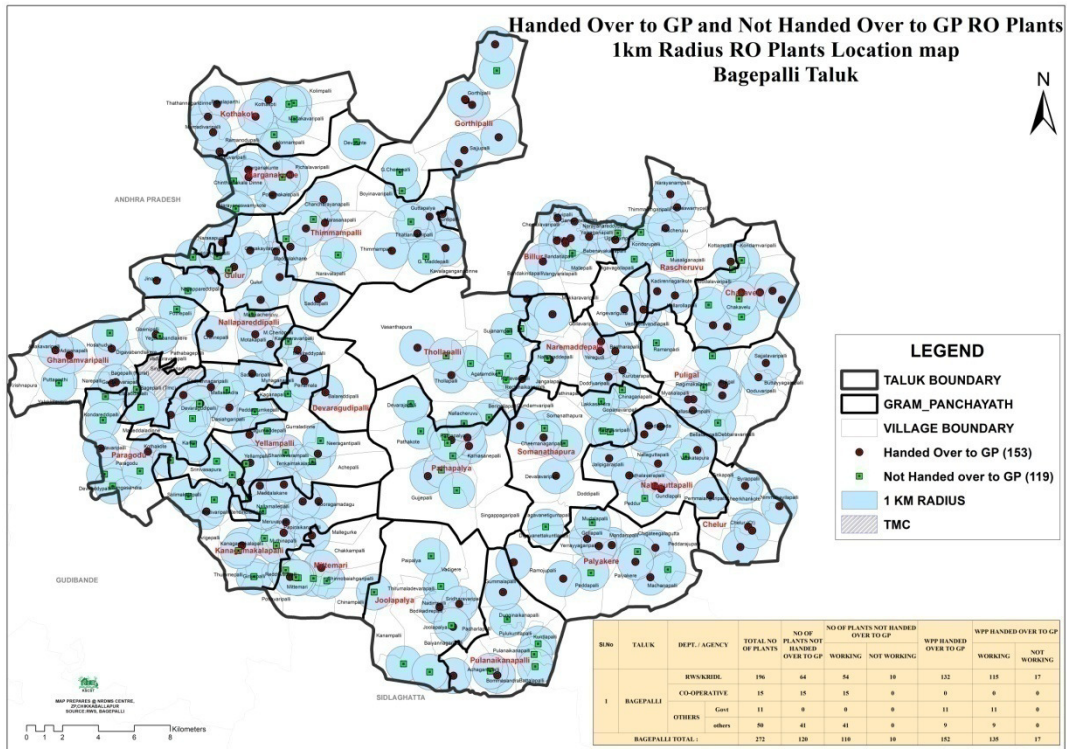
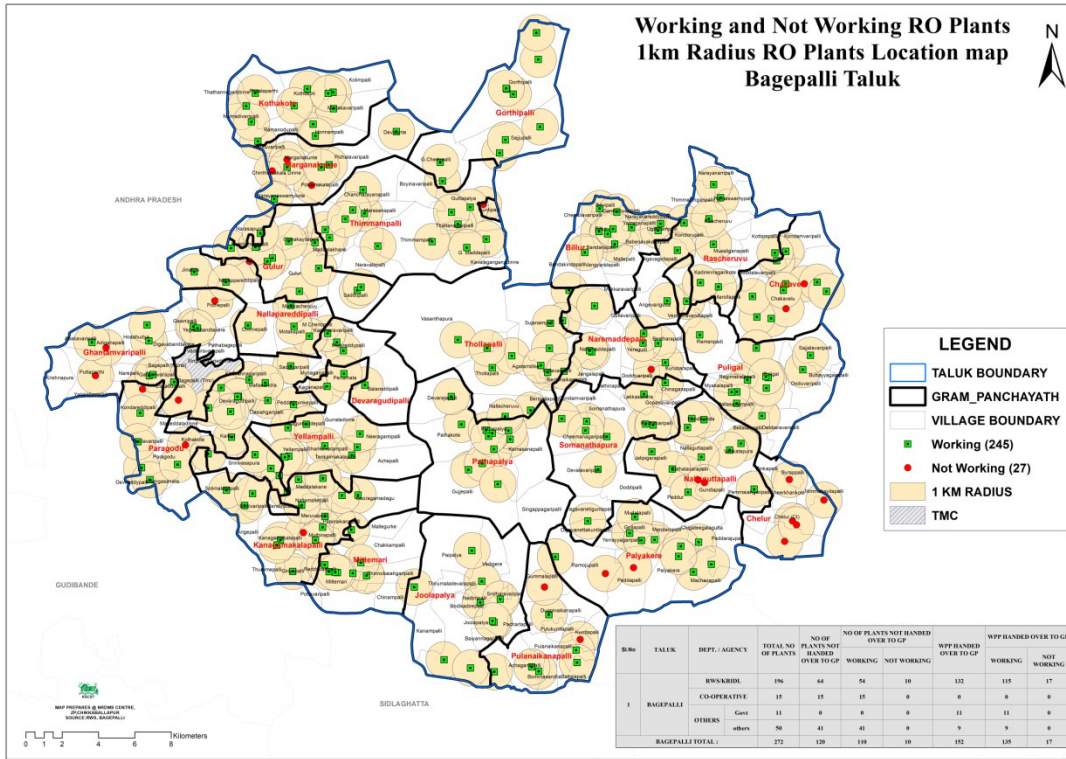
- It helps in identifying whether the RO Plants within the 1 km radius are functioning properly or are non-functional.
- It helps to verify whether the RO Plants have been handed over to the Gram Panchayath by the concerned department.
- It also assists in analyzing the distribution of RO Plants based on population coverage and identifying areas where additional RO Plants are required.

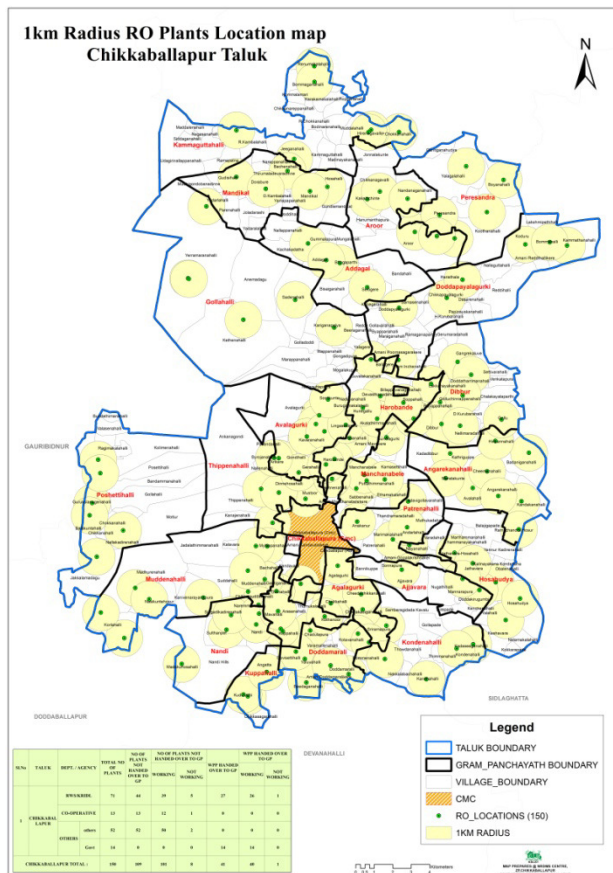
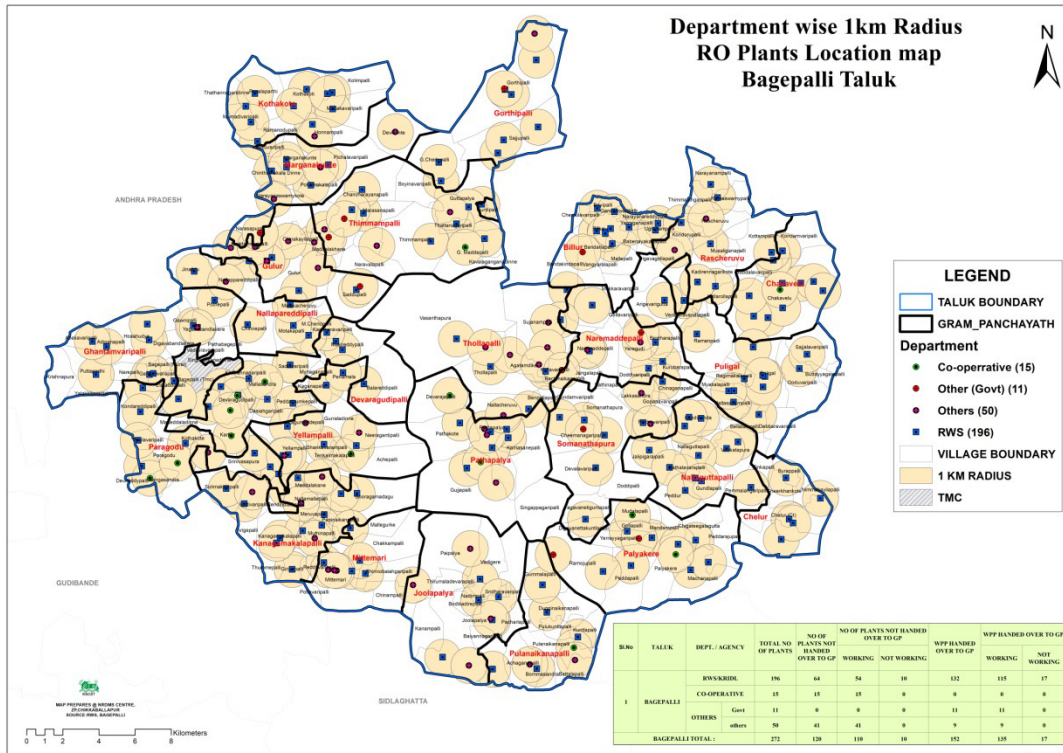
Map provided by Jpg and Pdf format.

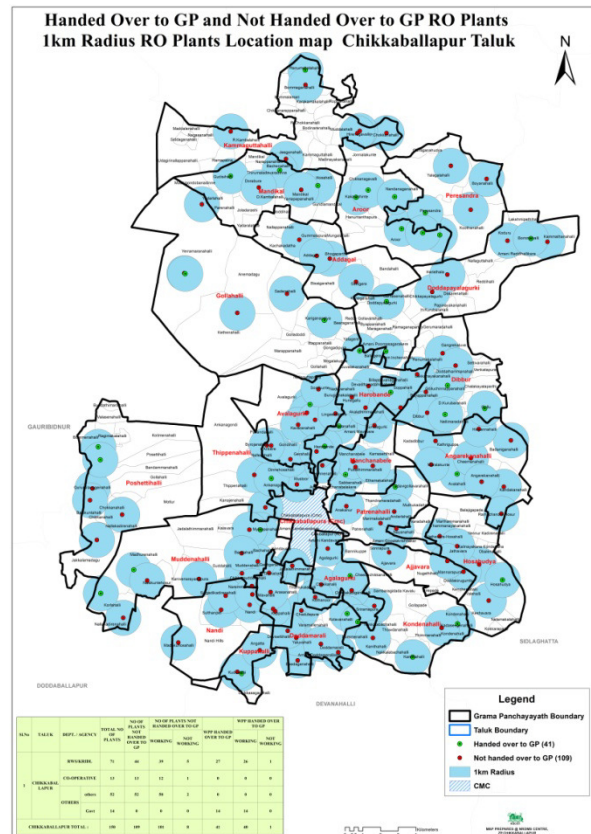
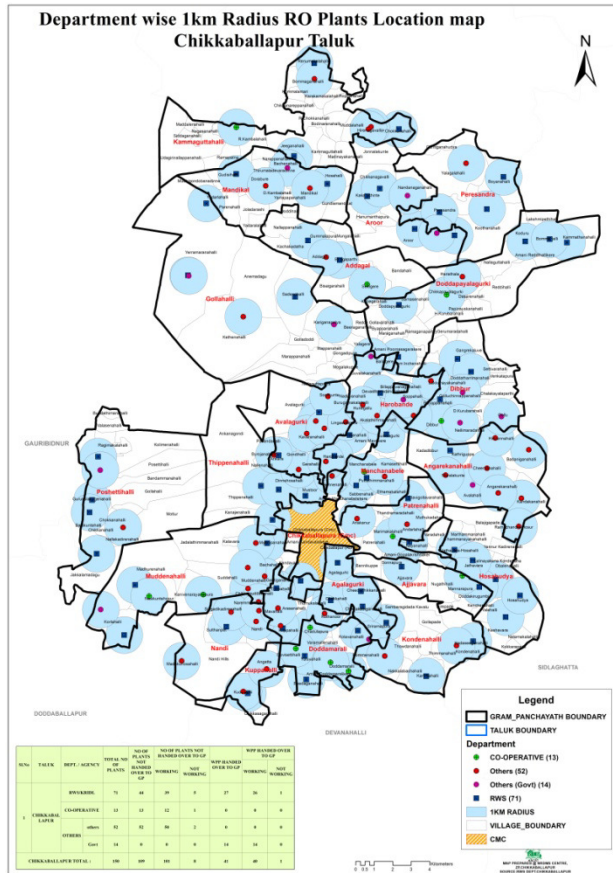
Table: 1

Sl.No	TALUK	DEPT./ AGENCY		TOTAL NO OF PLANTS	NO OF PLANTS NOT HANDED OVER TO GP	NO OF PLANTS NOT HANDED OVER TO GP		WPP HANDED OVER TO GP	WPP HANDED OVER TO GP	
						WORKING	NOT WORKING		WORKING	NOT WORKING
1	2	3	4	5	6	7	8	9	10	11
1	BAGEPALLI	RWS/KRIDL		196	64	54	10	132	115	17
		CO-OPERATIVE		15	15	15	0	0	0	0
		OTHERS	Govt.	11	0	0	0	11	11	0
			Others	50	41	41	0	9	9	0
BAGEPALLI TOTAL :				272	120	110	10	152	135	17









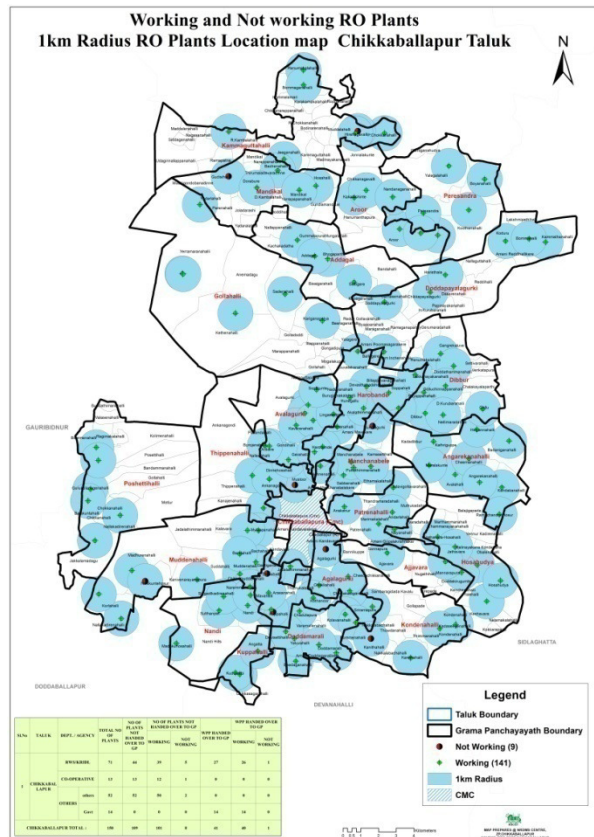
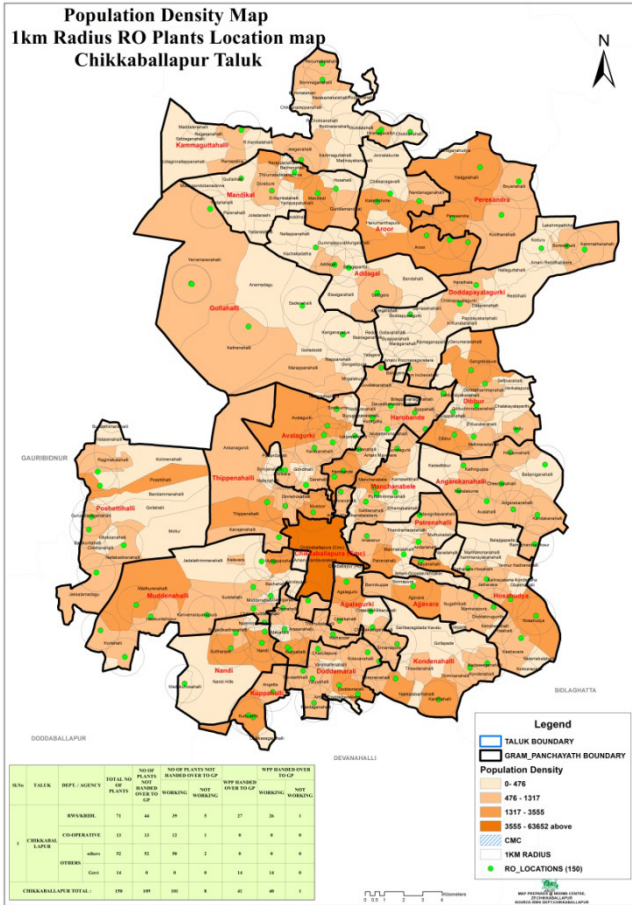


Table: 2

Sl. No	TALUK	DEPT. / AGENCY		TOTAL NO OF PLANTS	NO OF PLANTS NOT HANDED OVER TO GP	NO OF PLANTS NOT HANDED OVER TO GP		WPP HANDED OVER TO GP	WPP HANDED OVER TO GP	
						WORKING	NOT WORKING		WORKING	NOT WORKING
1	2	3	4	5	6	7	8	9	10	11
1	CHIKKABALLAPUR	RWS/KRIDL		71	44	39	5	27	26	1
		CO-OPERATIVE		13	13	12	1	0	0	0
		OTHERS	Others	52	52	50	2	0	0	0
			Govt.	14	0	0	0	14	14	0
CHIKKABALLAPUR TOTAL :				150	109	101	8	41	40	1

GIS-Based Mapping of Water Contaminants

Fluoride and Nitrite Contamination Analysis

Objective

As per the orders of the Respected Chief Executive Officer, based on information collected from water testing laboratories in Chikkaballapur District, the primary objective is to identify areas contaminated with Fluoride and Nitrite. This data is processed through NRDMS (Natural Resources Data Management System) using GIS (Geographic Information System) technology to provide detailed, Gram Panchayath-wise maps to the department for further action.

Methodology

- **Data Collection:** Latitude and Longitude (GPS coordinates) data were obtained from the Department of Rural Drinking Water and Sanitation.
- **Software Used:** The collected data was integrated into a database using **Arc GIS 10.3** software.
- **Mapping:** Detailed maps identifying locations contaminated with high levels of Fluoride and Nitrite were generated.
- **Submission:** These finalized digital maps were then submitted to the Rural Drinking Water and Sanitation Office.

Data Requirements

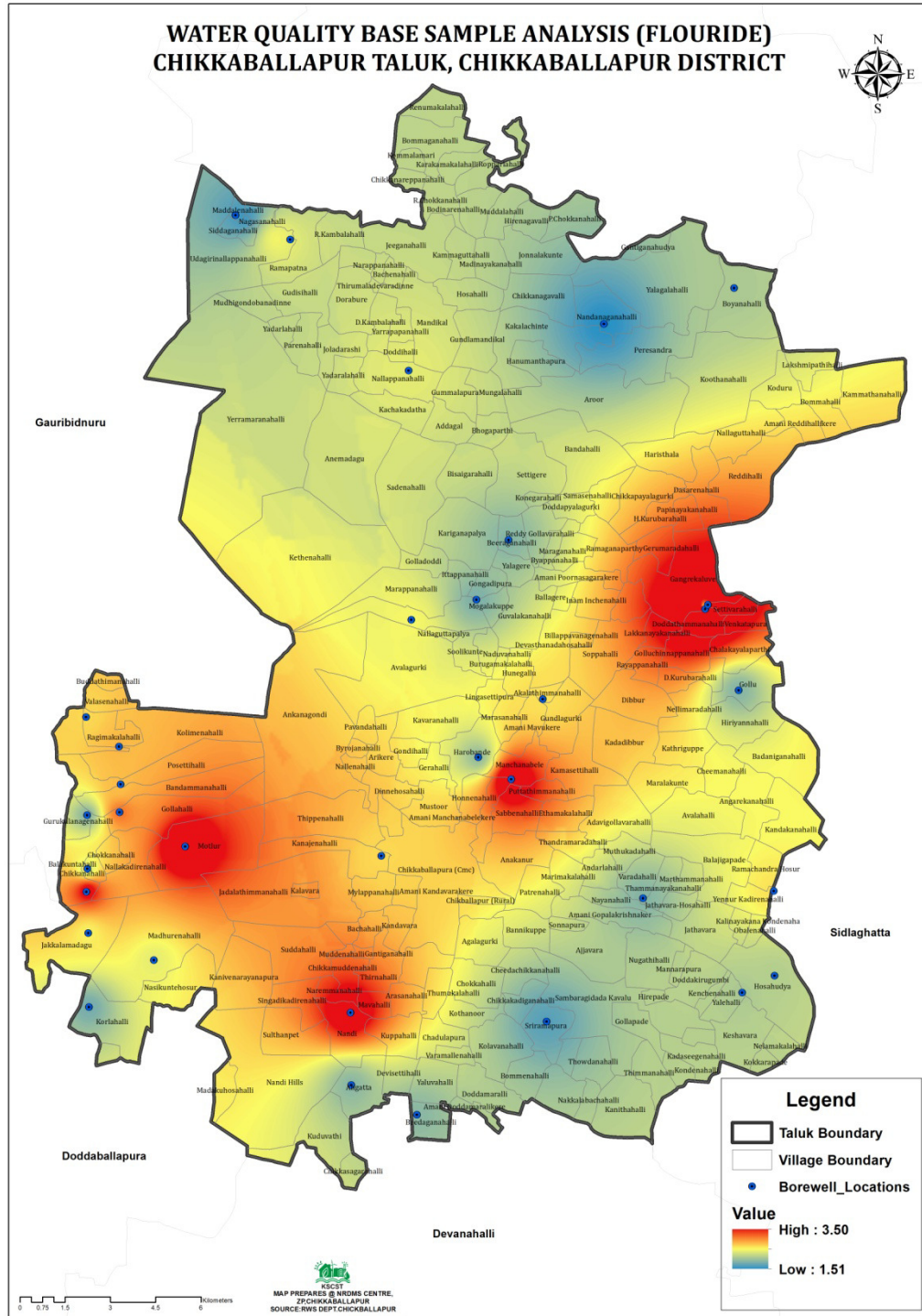
To ensure the accuracy of the mapping, the following data points were essential:

1. **Geospatial Data:** Precise Latitude and Longitude information for each water source.
2. **Chemical Analysis:** Specific concentration levels of **Fluoride** and **Nitrite** found in the water samples.

User Requirements & Benefits

1. **Public Health & Prevention:** High levels of Fluoride and Nitrite have been detected in various parts of the district, leading to the spread of water-borne diseases. These maps act as a crucial tool for officials to take preventive and precautionary measures.
2. **Identification:** The maps provide a visual guide for officials to easily identify specific geographical zones where chemical contamination is most severe.

Map provided by Jpg and Pdf format.



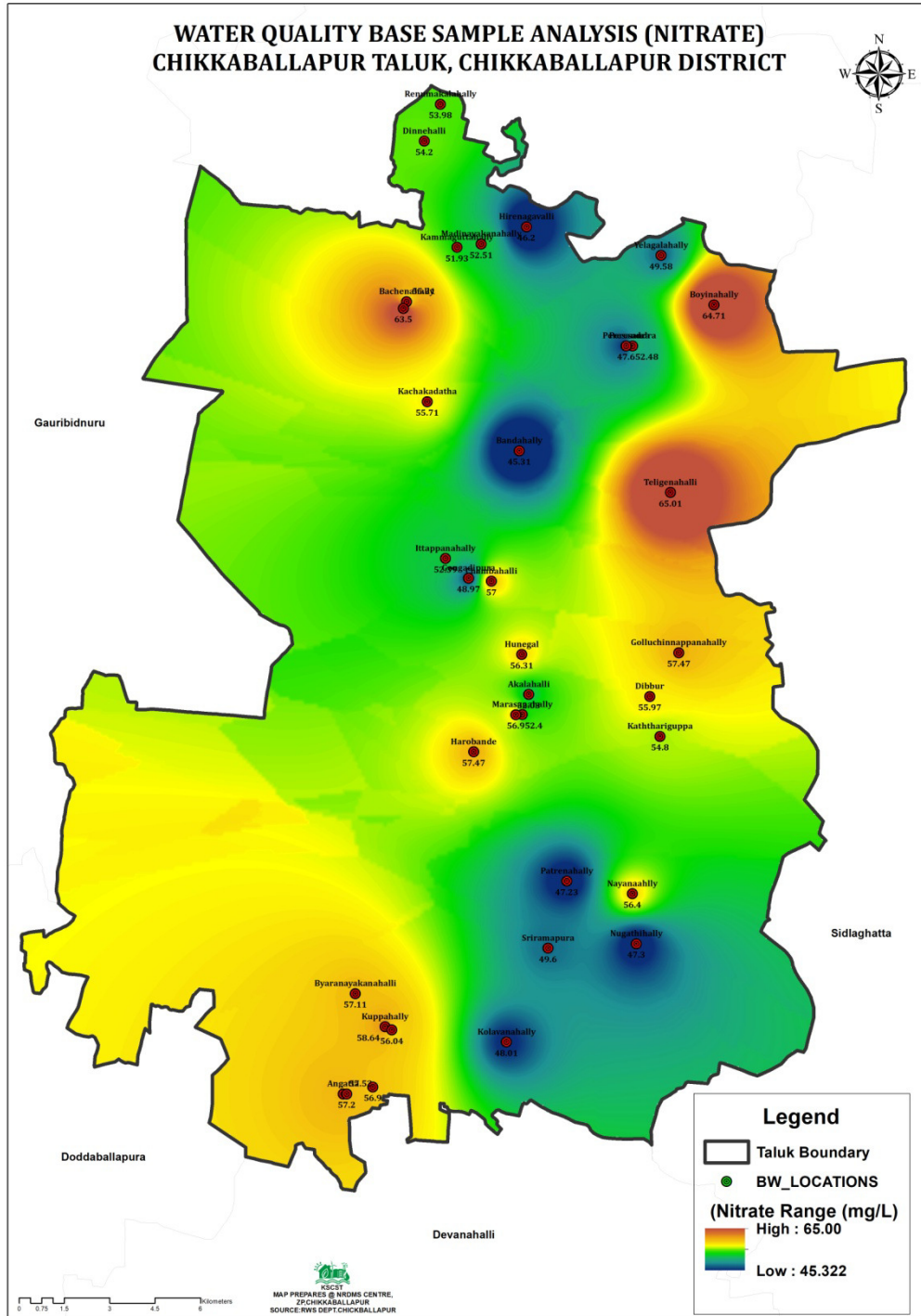


Table: 3

Sl no	Taluk	GP	Village	Source type	LAT	LONG	Contaminated parameter	Result
1	CHICKBALLAPUR	MUDDENAHALLY	KORLAHALLY	BW	13.3914	77.62	Fluoride(F)	1.65
2	CHICKBALLAPUR	MUDDENAHALLY	MADHURENAHALLY	BW	13.4053	77.64	Fluoride(F)	1.95
3	CHICKBALLAPUR	AGALAGURKI	SRIRAMAPURA	BW	13.3856	77.76	Fluoride(F)	1.59
4	CHICKBALLAPUR	THIPPENAHALLY	KANAJENAHALLY	BW	13.4358	77.71	Fluoride(F)	2.08
5	CHICKBALLAPUR	POSETTIHALLY	RAGIMAKALAHALLY	BW	13.4783	77.62	Fluoride(F)	2.08
6	CHICKBALLAPUR	POSETTIHALLY	KOLIMIHALLY	BW	13.4694	77.63	Fluoride(F)	2.156
7	CHICKBALLAPUR	POSETTIHALLY	BANDAMMANAHALLY	BW	13.4572	77.63	Fluoride(F)	2.14
8	CHICKBALLAPUR	POSETTIHALLY	GOLLAHALLY	BW	13.4497	77.63	Fluoride(F)	2.31
9	CHICKBALLAPUR	POSETTIHALLY	MOTLUR	BW	13.4392	77.65	Fluoride(F)	2.81
10	CHICKBALLAPUR	POSETTIHALLY	CHIKKANAHALLY	BW	13.4264	77.62	Fluoride(F)	2.58
11	CHICKBALLAPUR	POSETTIHALLY	JAKKALAMADAGU	BW	13.4325	77.62	Fluoride(F)	1.91
12	CHICKBALLAPUR	POSETTIHALLY	JAKKALAMADAGU	BW	13.4136	77.62	Fluoride(F)	2.02
13	CHICKBALLAPUR	MANCHANABALE	GUNDLAGURKI	BW	13.4822	77.76	Fluoride(F)	2.06
14	CHICKBALLAPUR	MANCHANABALE	MANCHANABALE	BW	13.4583	77.75	Fluoride(F)	2.72
15	CHICKBALLAPUR	MANCHANABALE	MANCHANABALE	BW	13.465	77.74	Fluoride(F)	1.73
16	CHICKBALLAPUR	NANDHI	NANDHI	BW	13.3889	77.7	Fluoride(F)	2.65
17	CHICKBALLAPUR	KUPPAHALLY	ANGATTA	BW	13.3672	77.7	Fluoride(F)	1.7
18	CHICKBALLAPUR	HOSAHUDYA	YELEHALLY	BW	13.3936	77.82	Fluoride(F)	1.79
19	CHICKBALLAPUR	HOSAHUDYA	HOSAHUDYA	BW	13.3986	77.83	Fluoride(F)	1.81
20	CHICKBALLAPUR	HOSAHUDYA	YENNURU KADHIRENAHALLY	BW	13.4239	77.83	Fluoride(F)	2.06
21	CHICKBALLAPUR	HOSAHUDYA	TAMMANAYAKANAHALLI	BW	13.4222	77.79	Fluoride(F)	1.69
22	CHICKBALLAPUR	GOLLAHALLY	NALLAGUTTA PALYA	BW	13.5064	77.72	Fluoride(F)	1.99
23	CHICKBALLAPUR	GOLLAHALLY	BEERAGANAHALLY	BW	13.53	77.75	Fluoride(F)	1.69
24	CHICKBALLAPUR	GOLLAHALLY	GOLLAHALLY	BW	13.5122	77.74	Fluoride(F)	1.67
25	CHICKBALLAPUR	DIBBURU	DHODDATHAMMANAHALLY	BW	13.5086	77.81	Fluoride(F)	3.8
26	CHICKBALLAPUR	DIBBURU	GOLLU	BW	13.4842	77.82	Fluoride(F)	1.69
27	CHICKBALLAPUR	ADDAGALLU	NALLAPPANAHALLY	BW	13.5811	77.72	Fluoride(F)	1.94
28	CHICKBALLAPUR	DHODDAMARALI	YALUVAHALLY	BW	13.37	13.37	Fluoride(F)	1.84
29	CHICKBALLAPUR	DHODDAMARALI	BEEDAGANAHALLY	BW	13.3581	77.72	Fluoride(F)	1.7
30	CHICKBALLAPUR	PERESANDRA	BOYINAHALLY	BW	13.6047	77.82	Fluoride(F)	1.79
31	CHICKBALLAPUR	DIBBURU	SHETTIVARAHALLY	BW	13.5094	77.81	Fluoride(F)	1.78
32	CHICKBALLAPUR	KAMMAGUTTAHALLY	SIDDAGANAHALLY	BW	13.6278	77.67	Fluoride(F)	1.55
33	CHICKBALLAPUR	KAMMAGUTTAHALLY	UDAGIRI NALLAPPANAHALLY	BW	13.6211	77.68	Fluoride(F)	1.98
34	CHICKBALLAPUR	ARURU	ADENNAGARAHALLI	BW	13.5944	77.78	Fluoride(F)	1.51

35	CHICKBALLAPUR	POSETTIHALLY	GURUKULANAGENAHALLI	BW	13.4489	77.62	Fluoride(F)	1.69
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Table: 4

Sl no	Taluk	GP	Village	Source type	LAT	LONG	Contaminated Parameter	Result
1	CHICKBALLAPUR	AJAVARA	NUGATHIHALLY	BW	13.409	77.788	Nitrate(NO3)	47.3
2	CHICKBALLAPUR	AJAVARA	NAYANAHHALLY	BW	13.424	77.787	Nitrate(NO3)	56.4
3	CHICKBALLAPUR	AGALAGURKI	SRIRAMAPURA	BW	13.408	77.761	Nitrate(NO3)	49.6
4	CHICKBALLAPUR	NANDHI	BYARANAYAKANAHALLI	BW	13.395	77.702	Nitrate(NO3)	57.11
5	CHICKBALLAPUR	KUPPAHALLY	KUPPAHALLY	BW	13.384	77.713	Nitrate(NO3)	56.04
6	CHICKBALLAPUR	KUPPAHALLY	KUPPAHALLY	BW	13.385	77.711	Nitrate(NO3)	58.64
7	CHICKBALLAPUR	KUPPAHALLY	ANGATTA	BW	13.365	77.699	Nitrate(NO3)	57.2
8	CHICKBALLAPUR	KUPPAHALLY	ANGATTA	BW	13.367	77.707	Nitrate(NO3)	56.9
9	CHICKBALLAPUR	KUPPAHALLY	ANGATTA	BW	13.365	77.698	Nitrate(NO3)	57.52
10	CHICKBALLAPUR	GOLLAHALLY	ITTAPPANAHALLY	BW	13.525	77.731	Nitrate(NO3)	52.39
11	CHICKBALLAPUR	GOLLAHALLY	GONGADIPURA	BW	13.519	77.738	Nitrate(NO3)	48.97
12	CHICKBALLAPUR	DIBBURU	DIBBUR	BW	13.484	77.875	Nitrate(NO3)	49.72
13	CHICKBALLAPUR	DIBBURU	DIBBUR	BW	13.483	77.793	Nitrate(NO3)	55.97
14	CHICKBALLAPUR	DIBBURU	GOLLUCHINNAPPANAHALLY	BW	13.496	77.802	Nitrate(NO3)	57.47
15	CHICKBALLAPUR	ANGAREKANAHALLY	KATHTHARIGUPPA	BW	13.471	77.796	Nitrate(NO3)	54.8
16	CHICKBALLAPUR	ADDAGALLU	BANDAHALLY	BW	13.557	77.754	Nitrate(NO3)	45.31
17	CHICKBALLAPUR	ADDAGALLU	KACHAKADATHA	BW	13.572	77.726	Nitrate(NO3)	55.71
18	CHICKBALLAPUR	DHODDAMARALI	KOLAVANAHALLY	BW	13.38	77.748	Nitrate(NO3)	48.01
19	CHICKBALLAPUR	PERESANDRA	BOYINAHALLY	BW	13.6	77.814	Nitrate(NO3)	64.71
20	CHICKBALLAPUR	PERESANDRA	PERESANDRA	BW	13.588	77.789	Nitrate(NO3)	52.48
21	CHICKBALLAPUR	PERESANDRA	PERESANDRA	BW	13.588	77.787	Nitrate(NO3)	47.6
22	CHICKBALLAPUR	PERESANDRA	YELAGALAHALLY	BW	13.615	77.798	Nitrate(NO3)	49.58
23	CHICKBALLAPUR	MANDIKAL	BACHENAHALLY	BW	13.602	77.72	Nitrate(NO3)	55.21

24	CHICKBALLAPUR	MANDIKAL	BACHENAHALLY	BW	13.6	77.719	Nitrate(NO3)	63.5
25	CHICKBALLAPUR	KAMMAGUTTAHALLY	RENUMAKALAHALLY	BW	13.661	77.731	Nitrate(NO3)	53.98
26	CHICKBALLAPUR	KAMMAGUTTAHALLY	HIRENAGAVALLI	BW	13.624	77.757	Nitrate(NO3)	46.2
27	CHICKBALLAPUR	KAMMAGUTTAHALLY	KAMMAGUTTAHALLY	BW	13.619	77.743	Nitrate(NO3)	51.93
28	CHICKBALLAPUR	KAMMAGUTTAHALLY	MADINAYAKANAHALLY	BW	13.619	77.743	Nitrate(NO3)	52.51
29	CHICKBALLAPUR	PATRENAHALLY	PATRENAHALLY	BW	13.428	77.767	Nitrate(NO3)	47.23
30	CHICKBALLAPUR	HAROBANDE	HAROBANDE	BW	13.467	77.739	Nitrate(NO3)	57.47
31	CHICKBALLAPUR	HAROBANDE	HUNEGAL	BW	13.496	77.754	Nitrate(NO3)	56.31
32	CHICKBALLAPUR	HAROBANDE	MARASANAHALLY	BW	13.478	77.752	Nitrate(NO3)	56.9
33	CHICKBALLAPUR	HAROBANDE	MARASANAHALLY	BW	13.478	77.754	Nitrate(NO3)	52.4
34	CHICKBALLAPUR	DODDAPYALAGURKI	TELIGENAHALLI	BW	13.544	77.8	Nitrate(NO3)	65.01
35	CHICKBALLAPUR	KAMMAGUTTAHALLY	DINNEHALLI	BW	13.65	77.726	Nitrate(NO3)	54.2
36	CHICKBALLAPUR	HAROBANDE	AKALAHALLI	BW	13.484	77.756	Nitrate(NO3)	52.03
37	CHICKBALLAPUR	HAROBANDE	CHAMBAHALLI	BW	13.518	77.745	Nitrate(NO3)	57

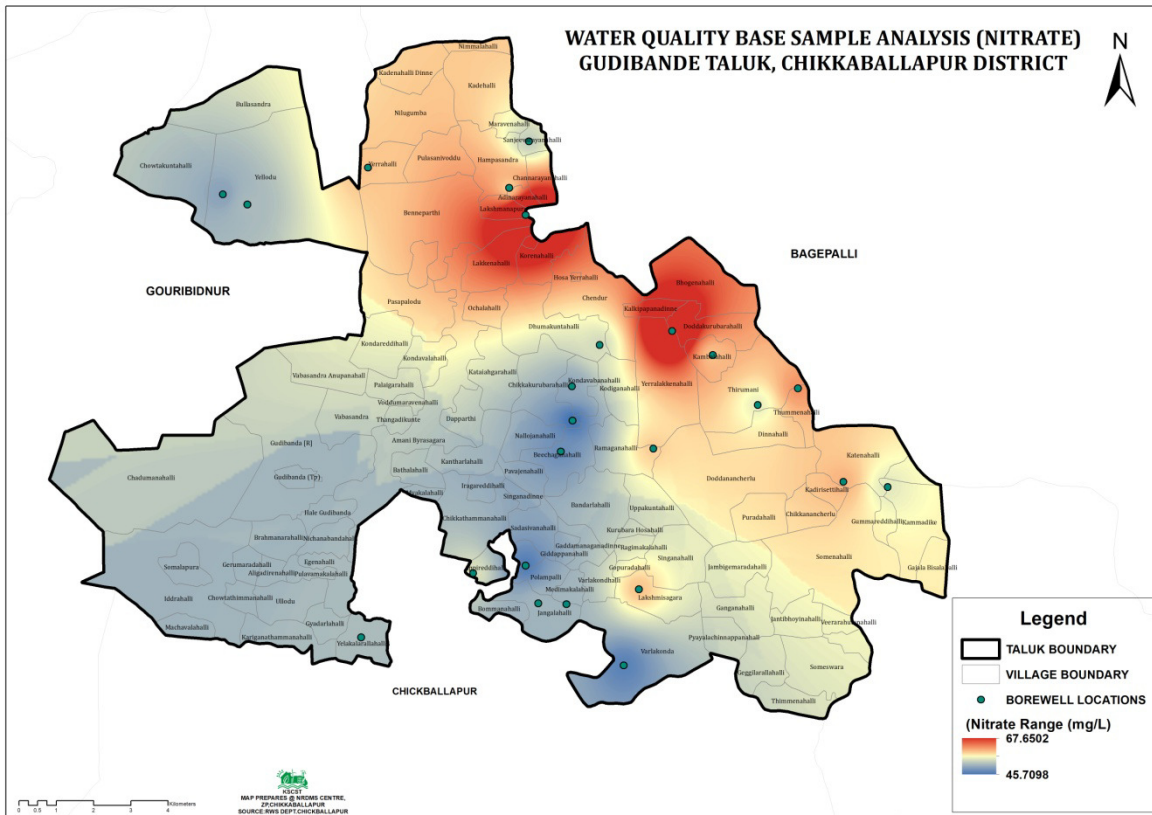
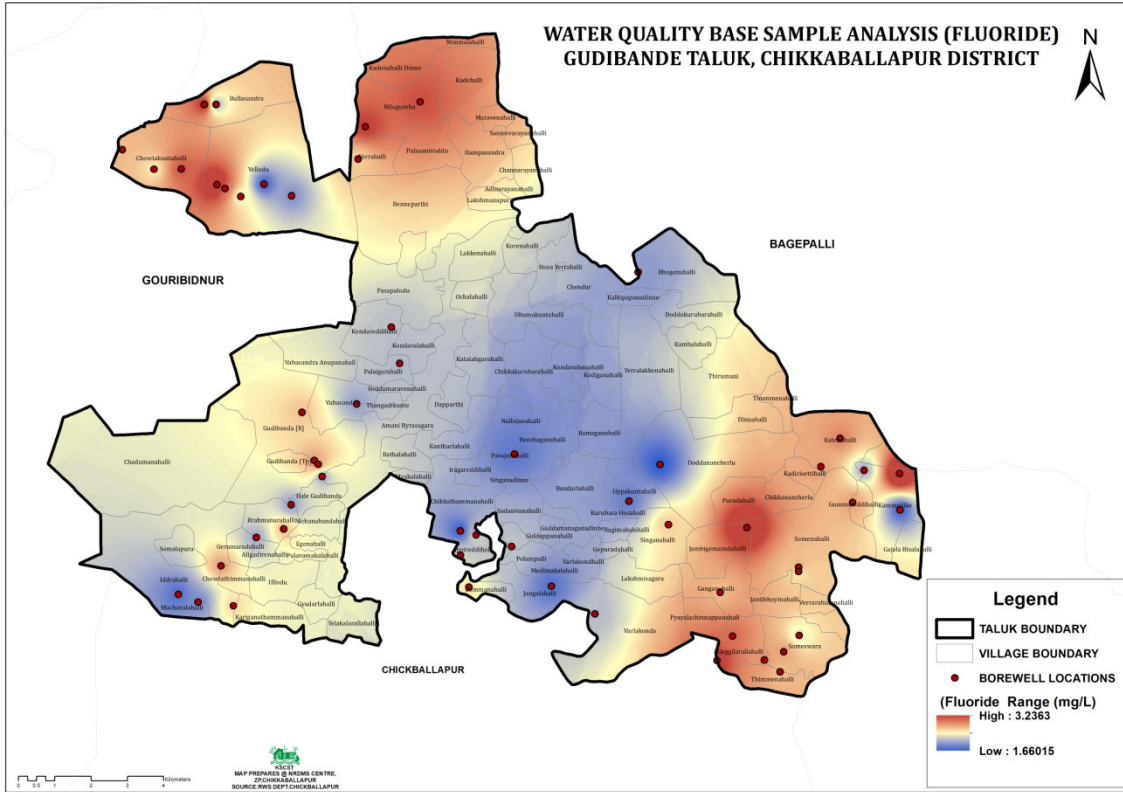
Table: 5

Slno	Taluk	Gram panchayat	Village	source	LAT	LONG	Fluoride Contamination Value
1	Gudibande	Hampasandra	Kondareddyhalli	BW	13.703	77.729	2.04
2	Gudibande	thirumani	Jayanthigrama	BW	13.659	77.789	1.8
3	Gudibande	thirumani	Pemmanahalli	BW	13.668	77.797	1.66
4	Gudibande	thirumani	Minchanahalli	BW	13.716	77.792	1.9
5	Gudibande	somenahalli	Jambigemarahalli	BW	13.653	77.799	2.37
6	Gudibande	somenahalli	Mallenahalli	BW	13.652	77.819	3.09
7	Gudibande	somenahalli	Somenahalli	BW	13.642	77.832	2.49
8	Gudibande	somenahalli	Somenahalli	BW	13.642	77.832	2.53
9	Gudibande	somenahalli	Ganganahalli	BW	13.636	77.812	2.44
10	Gudibande	somenahalli	Katenahalli	BW	13.674	77.843	2.59
11	Gudibande	somenahalli	Kadirishettyhalli	BW	13.667	77.838	2.51
12	Gudibande	somenahalli	Chadurlahalli	BW	13.666	77.849	1.98
13	Gudibande	somenahalli	Ramakrishnapura	BW	13.665	77.858	3.17
14	Gudibande	somenahalli	Gummareddyhalli	BW	13.658	77.846	2.51
15	Gudibande	somenahalli	Kammadike	BW	13.656	77.858	1.7
16	Gudibande	somenahalli	Dinnemelinahalli	BW	13.641	77.832	2.23
17	Gudibande	somenahalli	Someshwara	BW	13.625	77.832	2.17
18	Gudibande	somenahalli	Someshwara	BW	13.621	77.828	2.5
19	Gudibande	somenahalli	Chimmaigarahalli	BW	13.616	77.827	2.42
20	Gudibande	somenahalli	Chinnenahalli	BW	13.619	77.823	2.55
21	Gudibande	somenahalli	Maddareddyhalli	BW	13.619	77.811	2.9
22	Gudibande	somenahalli	Gengirlahalli	BW	13.625	77.815	2.68
23	Gudibande	yellodu	Myalakere	BW	13.736	77.704	1.88
24	Gudibande	yellodu	Yellodu	BW	13.736	77.691	2.22
25	Gudibande	yellodu	Yellodu	BW	13.739	77.697	1.69
26	Gudibande	yellodu	Yellodu	BW	13.738	77.687	2.62
27	Gudibande	yellodu	Yellodu	BW	13.739	77.685	3.25
28	Gudibande	yellodu	Chowtakuntahalli	BW	13.743	77.676	2.74
29	Gudibande	yellodu	Ambapura	BW	13.743	77.669	2.3
30	Gudibande	yellodu	Ambapura	BW	13.748	77.661	2.43
31	Gudibande	yellodu	Bullasandra	BW	13.759	77.682	2.9

32	Gudibande	yellodu	Bullasandra	BW	13.759	77.685	2
33	Gudibande	yellodu	Yarahalli	BW	13.745	77.721	2.38
34	Gudibande	yellodu	Nilugumba	BW	13.753	77.723	2.85
35	Gudibande	yellodu	Gundlahalli	BW	13.759	77.737	2.77
36	Gudibande	dapparthi	Vabasandra	BW	13.682	77.706	2.41
37	Gudibande	dapparthi	Upparahalli	BW	13.684	77.72	1.94
38	Gudibande	dapparthi	Kondavulahalli	BW	13.694	77.731	2.01
39	Gudibande	ullodu	Nichabandanahalli	BW	13.659	77.703	1.94
40	Gudibande	ullodu	Halegudibande	BW	13.659	77.703	2.54
41	Gudibande	ullodu	Halegudibande	BW	13.666	77.711	1.94
42	Gudibande	ullodu	Rural Gudibande	BW	13.67	77.709	2.51
43	Gudibande	ullodu	Rural Gudibande	BW	13.669	77.71	2.54
44	Gudibande	ullodu	Pullumakalahalli	BW	13.653	77.701	2.41
45	Gudibande	ullodu	Alagadharenahalli	BW	13.651	77.694	1.97
46	Gudibande	ullodu	Chowtathimmanahalli	BW	13.644	77.685	2.51
47	Gudibande	ullodu	Kariganthmanahalli	BW	13.634	77.688	2.34
48	Gudibande	ullodu	Machavulahalli	BW	13.637	77.674	1.74
49	Gudibande	ullodu	Idrahalli	BW	13.635	77.679	1.84
50	Gudibande	varalakonda	K Appireddyhalli	BW	13.651	77.75	2.12
51	Gudibande	varalakonda	M Appireddyhalli	BW	13.646	77.746	2.11
52	Gudibande	varalakonda	Bommanahalli	BW	13.638	77.748	2.32
53	Gudibande	varalakonda	Polampalli	BW	13.648	77.759	2.05
54	Gudibande	varalakonda	Medimakalahalli	BW	13.638	77.769	1.75
55	Gudibande	varalakonda	Kerenahalli	BW	13.631	77.78	2.03
56	Gudibande	beechaganahalli	Pavajenahalli	BW	13.671	77.76	1.77
57	Gudibande	beechaganahalli	Naduvanahalli	BW	13.652	77.746	1.67

Table: 6

Sno	Taluk	GP Name	Village Name	Source type	LAT	LONG	Nitrate Contamination Value
1	Gudibande	Hampasandra	Adinarayanahalli	BW	13.7328	77.76	67.69
2	Gudibande	Hampasandra	Adinarayanahalli	BW	13.7394	77.756	53.57
3	Gudibande	Hampasandra	Sanjeevarayanahalli	BW	13.7506	77.761	50.08
4	Gudibande	Thirumani	Doddakurubarahalli	BW	13.7042	77.796	66.6
5	Gudibande	Thirumani	Kambalahalli	BW	13.6983	77.806	53.91
6	Gudibande	Thirumani	Mm Halli	BW	13.6861	77.817	51.45
7	Gudibande	Thirumani	Dinnahalli	BW	13.69	77.827	55.31
8	Gudibande	Thirumani	J P Nagara	BW	13.6758	77.791	53.48
9	Gudibande	Somenahalli	Kadirishettyhalli	BW	13.6672	77.838	54.3
10	Gudibande	Somenahalli	Chadurlahalli	BW	13.6658	77.849	51.2
11	Gudibande	Yellodu	Yellodu	BW	13.7361	77.691	49.2
12	Gudibande	Yellodu	Yellodu	BW	13.7386	77.685	48.1
13	Gudibande	Yellodu	Yarahalli	BW	13.7447	77.721	53.8
14	Gudibande	Ullodu	Yalakaralahalli	BW	13.6308	77.718	49.3
15	Gudibande	Varalakonda	Varalakonda	BW	13.6417	77.787	53.8
16	Gudibande	Varalakonda	M Appireddyhalli	BW	13.6461	77.746	51
17	Gudibande	Varalakonda	Polampalli	BW	13.6478	77.759	46.1
18	Gudibande	Varalakonda	Medimakalahalli	BW	13.6383	77.769	49
19	Gudibande	Varalakonda	Theelakuntahalli	BW	13.6233	77.783	46.4
20	Gudibande	Varalakonda	Jangalahalli	BW	13.6386	77.762	48.9
21	Gudibande	Beechaganahalli	Gagadheerapura	BW	13.7011	77.778	50.7
22	Gudibande	Beechaganahalli	Kondavabanahalli	BW	13.6911	77.771	48.3
23	Gudibande	Beechaganahalli	Chikkakurubarahalli	BW	13.6828	77.771	45.7
24	Gudibande	Beechaganahalli	Beechaganahalli	BW	13.6753	77.768	47.1



Use of GIS for the Department of Health and Family Welfare

1. Background

As per the directions of the Respected Chief Executive Officer, a GIS-based report was prepared to identify the areas within Chikkaballapur district where Communicable and Non-Communicable diseases are spreading more widely. The report was prepared based on Primary Health Centre (PHC)-wise analysis using GIS maps.

2. Objective:

The main objectives of the report are:

- To identify areas where the intensity of diseases is higher.
- To provide accurate information to the concerned authorities to take effective disease control and preventive measures.
- To prepare GIS maps using GIS technology through NRDMS and provide them to the department.

The overall objective of this report is to strengthen the public health monitoring system in the district.

3. Methodology:

1. PHC-wise data on Communicable and Non-Communicable diseases was collected from the Department of Health and Family Welfare.
2. The collected data was entered and processed in a database using ArcGIS 10.3 software.
3. The disease distribution within each PHC jurisdiction was analyzed to identify areas with higher disease prevalence.
4. Based on this analysis, GIS maps were prepared to highlight the disease spread patterns.
5. The prepared maps were submitted to the Department of Health and Family Welfare for further administrative and technical actions.

4. Data Requirements:

1. Detailed PHC-wise data on Communicable and Non-Communicable diseases.

5. User Requirements:

1. To clearly understand the distribution and spread of diseases across different parts of the district.
2. To take timely preventive and control measures against diseases.
3. To support decision-making related to planning, resource allocation, and improvement of public health services.

6. Use of GIS Maps:

The prepared GIS maps are provided to the Department of Health and Family Welfare in both hard copy and soft copy formats through the NRDMS Centre. These maps help strengthen the district health system and assist in implementing effective disease control and public health programs.

Details of the Diseases reported from Jan to Dec 2025(till 30th)

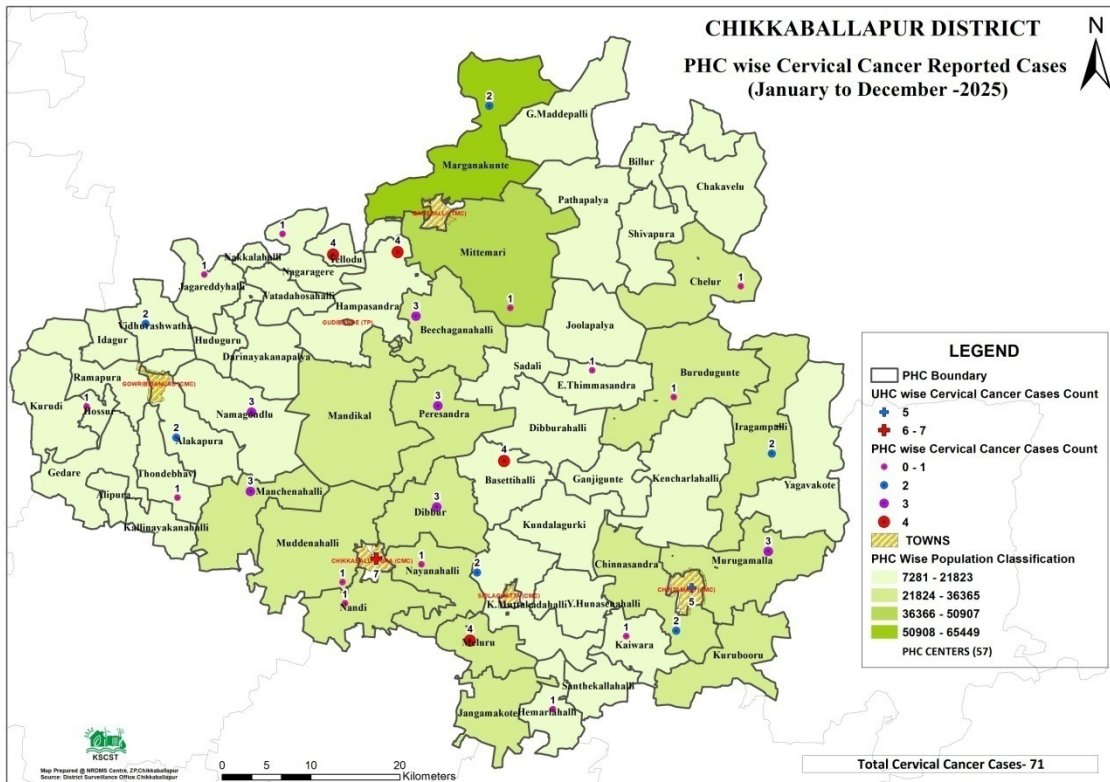
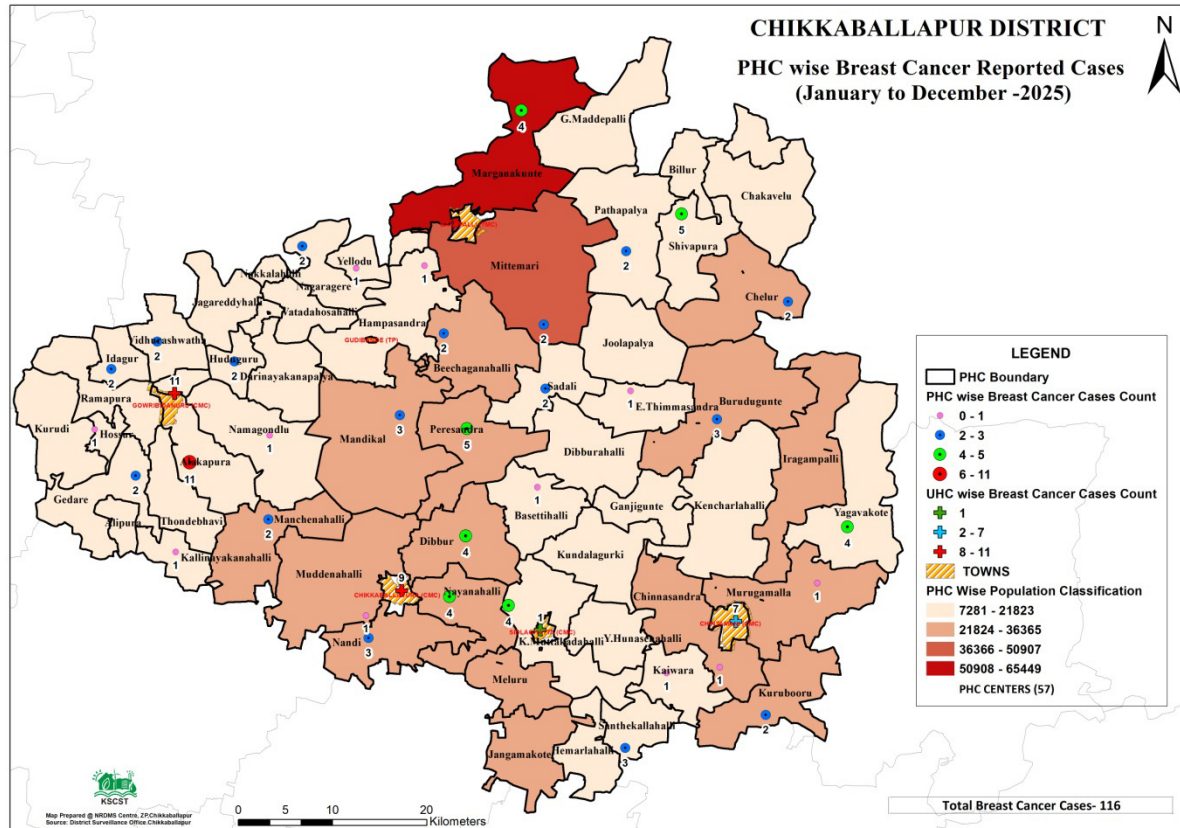
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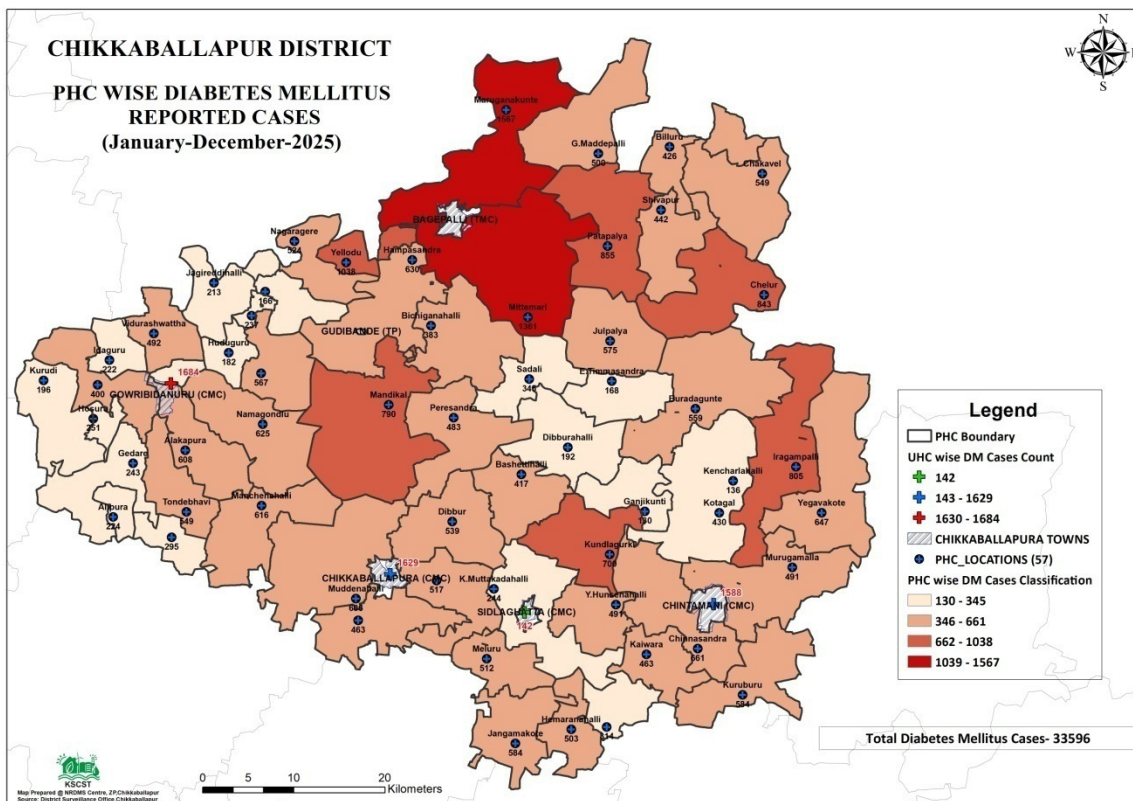
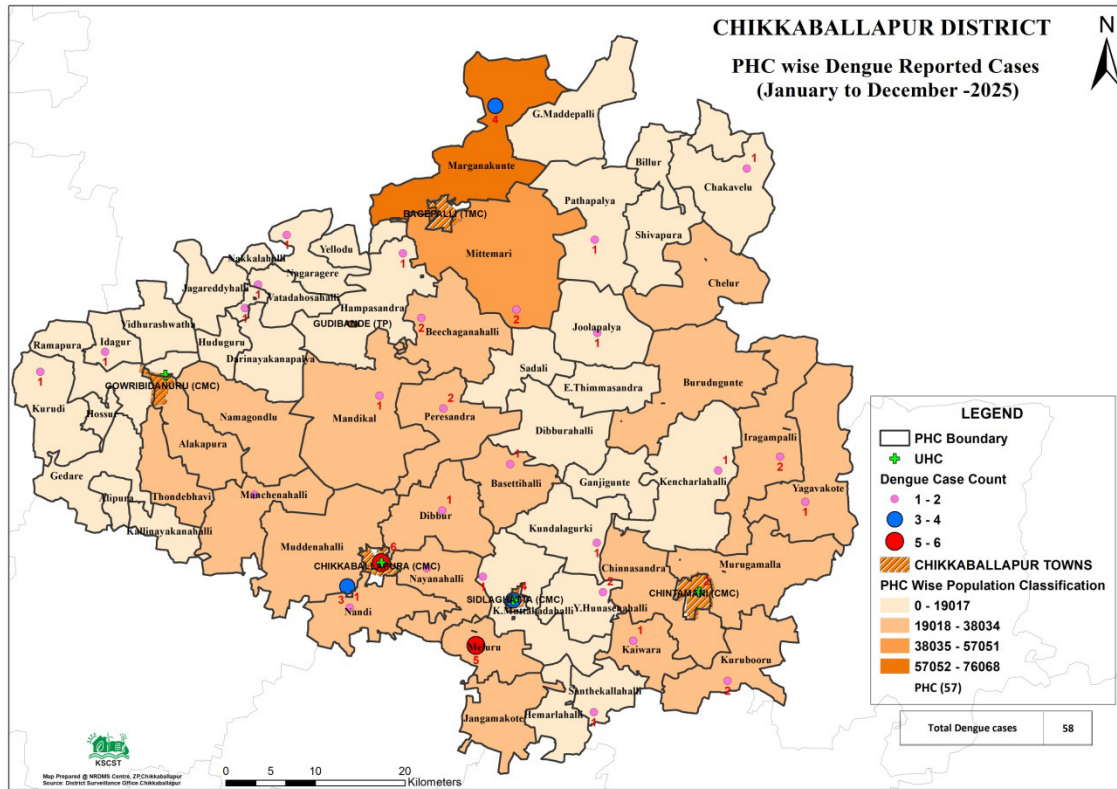
Sl.No	Taluka	Name of the PHC/UHC	Population	NO. of Cases reported from Jan to Dec 2025										
				Dengue	Malaria	Chikungunya	TB	Leprosy	HTN	DM	HTN & DM	Oral Cancer	Breast Cancer	Cervical Cancer
1	Bagepalli	BILLUR	9728	0	0	0	13	2	196	426	104	1	0	0
2	Bagepalli	CHAKVELU	14907	1	0	0	10	1	281	549	100	0	0	0
3	Bagepalli	CHELURU (24X7)	22973	0	0	0	18	0	777	843	227	5	2	1
4	Bagepalli	G.MADDEPALLI CROSS	13027	0	0	0	9	0	196	500	88	1	0	0
5	Bagepalli	JULAPALYA	10972	1	0	0	3	3	681	575	221	2	0	0
6	Bagepalli	MARGANKUNTE	65449	4	0	0	35	2	1216	1567	681	5	4	2
7	Bagepalli	MITTEMARI (24X7)	40351	2	0	0	20	1	1138	1361	619	13	2	1
8	Bagepalli	PATHAPALYA (24X7)	13790	1	0	0	11	2	506	855	68	2	2	0
9	Bagepalli	SHIVAPURA	14378	0	0	0	9	1	373	442	149	3	5	0
10	CHIKBALLAPUR	DIBBUR (24X7)	27440	1	0	0	24	1	658	539	349	14	4	3
11	CHIKBALLAPUR	MANDIKAL (24X7)	22654	1	0	0	23	1	761	790	709	13	3	0
12	CHIKBALLAPUR	MUDDENAHALLI	30254	3	0	0	27	0	537	606	378	3	1	1
13	CHIKBALLAPUR	NANDI 24X7	27311	1	0	0	21	0	534	463	657	0	3	1
14	CHIKBALLAPUR	NAYANAHALLI	28141	2	0	0	17	0	747	517	541	16	4	1

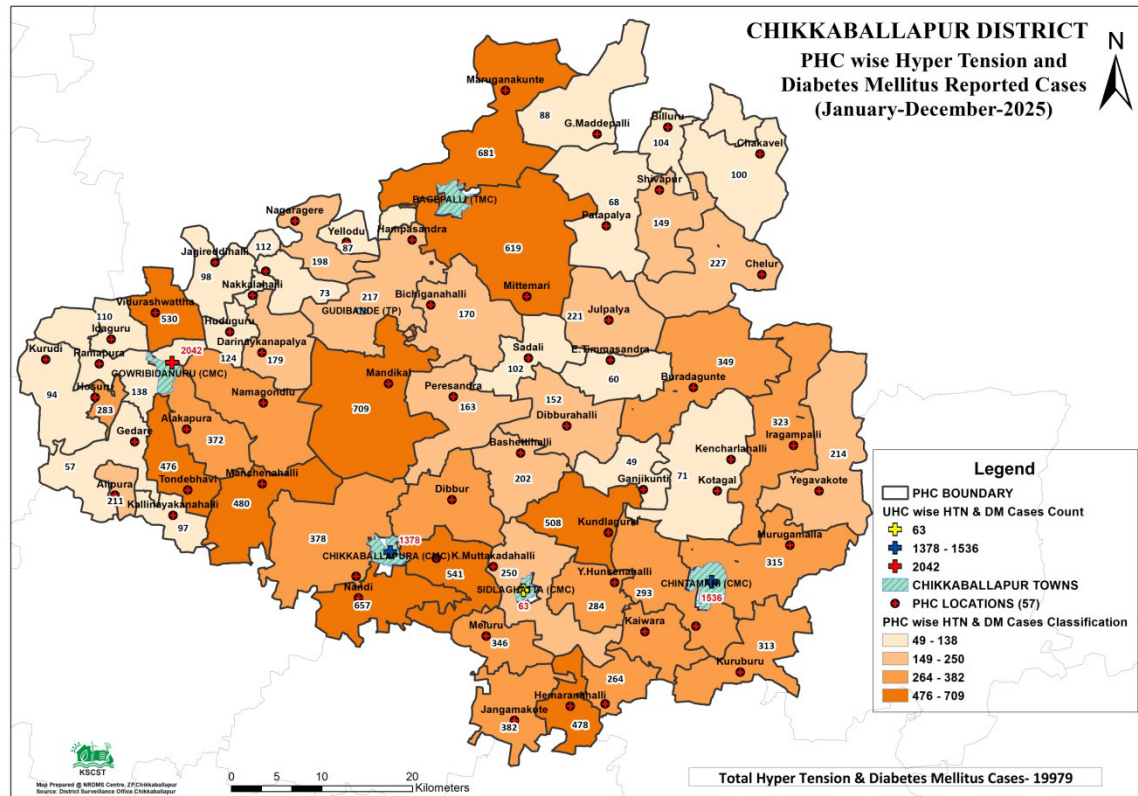
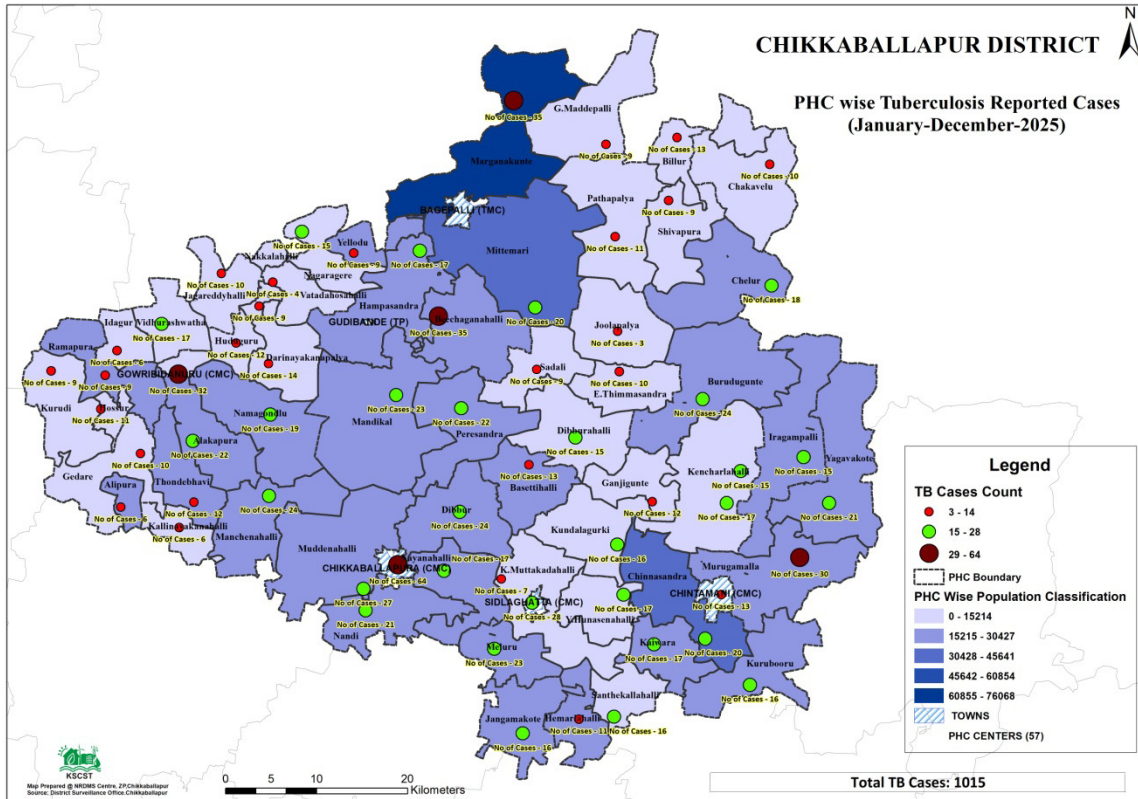
15	CHIKBALLAPUR	PERESANDRA (24X7)	26282	2	0	0	22	0	456	483	163	9	5	3
16	CHIKBALLAPUR	Chikkaballapura UHC	71424	6	0	0	64	1	1537	1629	1378	13	9	7
17	Chintamani	BURUDUGUNTE (24X7)	26466	0	0	0	24	0	602	559	349	13	3	1
18	Chintamani	CHINNASANDR A	31165	0	0	0	20	1	751	661	293	13	1	2
19	Chintamani	IRAGAMPALLI	25678	2	0	0	15	1	636	805	323	5	0	2
20	Chintamani	KAIWARA (24X7)	21201	1	0	0	17	0	518	463	293	5	1	1
21	Chintamani	Kencharlahalli	12385	1	1	0	15	0	173	136	71	0	0	0
22	Chintamani	KOTAGAL	20118	0	0	0	17	0	286	430	229	0	0	0
23	Chintamani	KURUBOOR	24906	2	0	0	16	0	614	584	313	2	2	0
24	Chintamani	MURUGMALLA (24X7)	26843	0	0	0	30	2	641	491	315	4	1	3
25	Chintamani	Santhekallahalli	14836	1	0	0	16	1	406	314	264	5	3	0
26	Chintamani	YEGAVAKOTE	21717	1	0	0	21	0	572	647	214	10	4	0
27	Chintamani	Chintamani UHC	85739	2	1	0	13	1	1554	1588	1536	7	7	5
28	Gowribidanur	ALAKAPURA	19605	0	0	0	22	1	745	608	372	8	11	2
29	Gowribidanur	ALLIPUR 24X7	16540	0	0	0	6	0	222	224	211	0	0	0
30	Gowribidanur	D. PALYA 24X7	12654	0	0	0	14	0	301	567	179	8	0	0
31	Gowribidanur	GEDERE PHC	12797	0	0	0	10	0	247	243	57	1	2	0
32	Gowribidanur	HOSSUR (24X7)	10510	0	0	0	11	0	262	251	283	0	1	1
33	Gowribidanur	HUDUGUR	7337	0	0	0	12	0	146	182	124	1	2	0
34	Gowribidanur	IDUGUR	10805	1	0	0	6	0	194	222	110	0	2	0
35	Gowribidanur	JAGAREDDY HALLI	11149	0	0	0	10	0	210	213	98	4	0	1

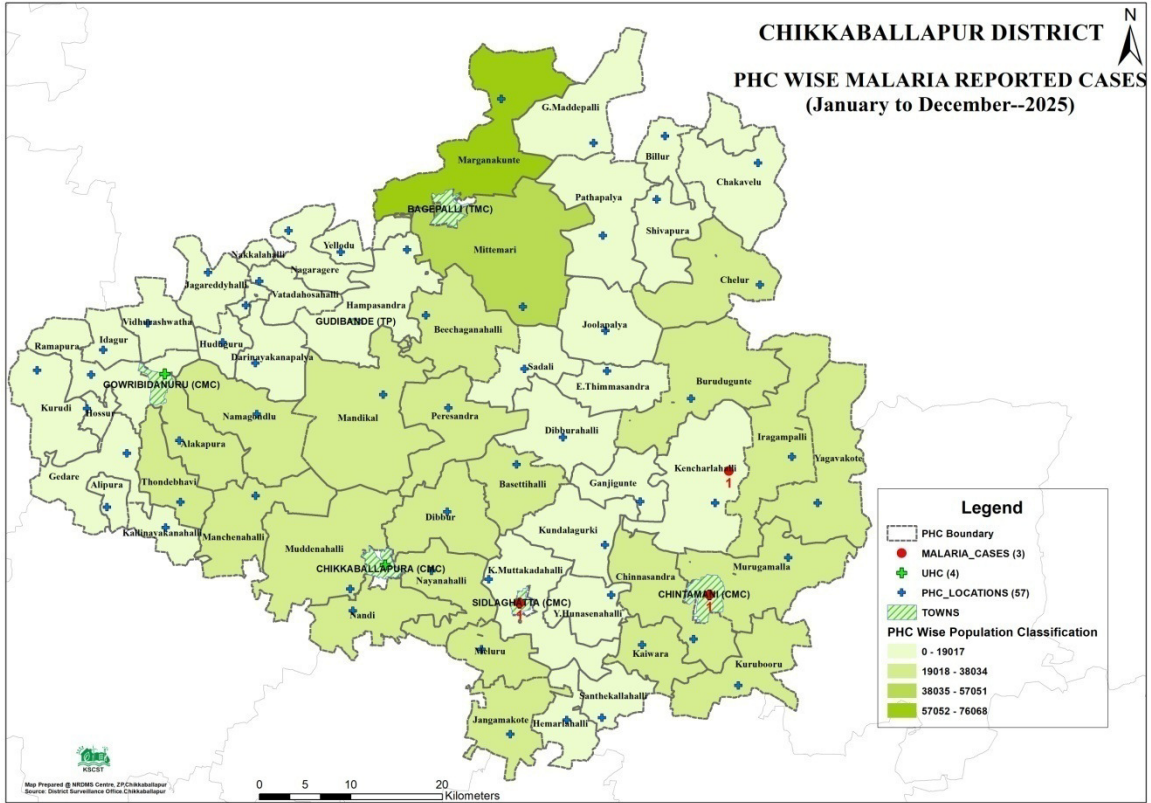
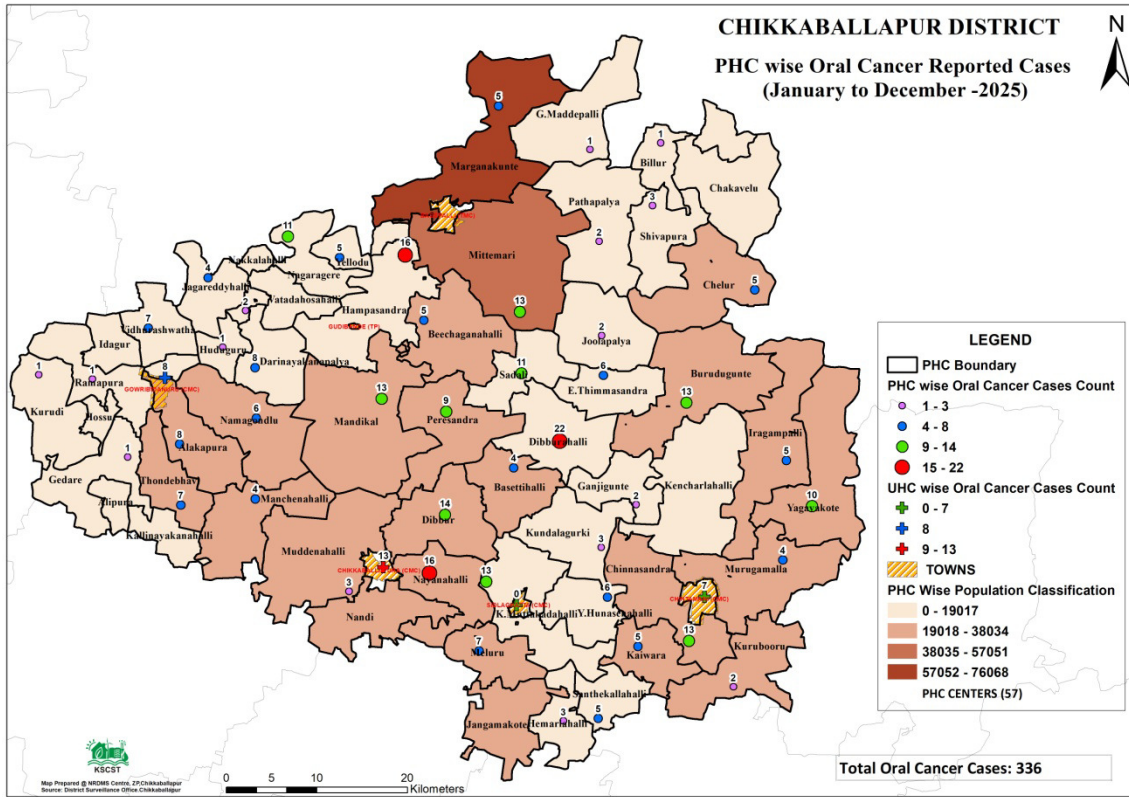
36	Gowribidanur	KALLINAYAKAN A HALLI	10024	0	0	0	6	0	282	295	97	0	1	0
37	Gowribidanur	KURUDI	10894	1	0	0	9	1	218	196	94	1	0	0
38	Gowribidanur	MANCHENAHAL LI (24X7)	27020	1	0	0	24	1	528	616	480	4	2	3
39	Gowribidanur	NAGARAGERE	13469	1	0	0	15	2	358	524	198	11	2	1
40	Gowribidanur	NAKKALAHALLI	10833	1	0	0	9	3	272	237	112	2	0	0
41	Gowribidanur	NAMAGONDLU (24X7)	20974	0	0	0	19	1	508	625	323	6	1	3
42	Gowribidanur	RAMPURA	15229	0	0	0	9	0	342	400	138	1	0	0
43	Gowribidanur	THONDEBAVI	19163	0	0	0	12	0	730	549	476	7	0	1
44	Gowribidanur	VATADAHOSAH ALLI (24X7)	7281	1	0	0	4	0	149	166	73	0	0	0
45	Gowribidanur	VIDHURASHWA THA	14646	0	0	0	17	1	578	492	530	7	2	2
46	Gowribidanur	Gowribidanur UHC	52825	0	0	0	32	1	1461	1684	2042	8	11	0
47	Gudibande	BEECHAGANAH ALLI	24010	2	0	0	35	0	339	383	170	5	2	3
48	Gudibande	HAMPASANDRA	17917	1	0	0	17	0	479	630	217	16	1	4
49	Gudibande	YELLODU	17075	0	0	0	9	0	1297	1038	87	5	1	4
50	Sidlaghatta	BHASETTIHALLI	20605	1	0	0	13	3	575	417	202	4	1	4
51	Sidlaghatta	DIBBURHALLI 24X7	13117	0	0	0	15	0	403	192	152	22	0	0
52	Sidlaghatta	E.THIMSANDRA	9612	0	0	0	10	0	156	168	60	6	1	1
53	Sidlaghatta	GANJIGUNTE	8410	0	0	0	12	0	120	130	49	2	0	0
54	Sidlaghatta	HEMARLAHALLI	17434	0	0	0	11	0	689	503	478	3	0	1
55	Sidlaghatta	JANGAMAKOTE (24X7)	24142	0	0	0	16	0	821	584	382	0	0	0
56	Sidlaghatta	K Muttukadahalli	11561	1	0	0	7	1	336	244	250	13	4	2

57	Sidlaghatta	Kundlagurki	13263	1	0	0	16	1	695	700	508	3	0	0
58	Sidlaghatta	MELURU	25630	5	0	0	23	0	908	512	346	7	0	4
59	Sidlaghatta	SADALI (24X7)	14029	0	0	0	9	0	303	345	102	11	2	0
60	Sidlaghatta	Y.Hunassenahalli	14443	2	0	0	17	0	585	491	284	6	0	0
61	Sidlaghatta	Sidlaghatta UHC	50686	4	1	0	28	0	134	142	63	0	1	0
	Total		1335824	58	3	0	1015	37	32940	33596	19976	336	116	71









Technical Report on Identification of Land for Solar Micro Grid Using GIS

1. Objective

As per the directions of the Respected Chief Executive Officer, the objective of this study is to identify suitable 15-acre land parcels for the establishment of Solar Micro Grid systems in Chikkaballapur District. Additionally, the task involves identifying the locations of sub-stations and generating maps with 5 km radius coverage for each location.

For this purpose, relevant data was collected from the concerned department and Geographic Information System (GIS) technology was utilized through NRDMS to prepare the required maps.

2. Methodology

The necessary data was obtained from BESCO (Bangalore Electricity Supply Company). The collected data was digitized and integrated into a GIS database using ArcGIS 10.3 software.

A total of 48 sub-station locations were identified and mapped. For each sub-station, a buffer of 5 km radius was generated to analyze the surrounding area. Based on this analysis, thematic maps were prepared.

The final maps were submitted to BESCO for further planning and decision-making.

3. Data Requirements

Latitude and Longitude coordinates of all 48 sub-station locations.

4. User Requirements

Since approximately 15 acres of land is required for establishing each Solar Micro Grid, the generated maps assist in identifying suitable land parcels within the 5 km radius of the 48 sub-stations.

These maps support decision-making by helping stakeholders locate feasible sites for land acquisition and infrastructure development.

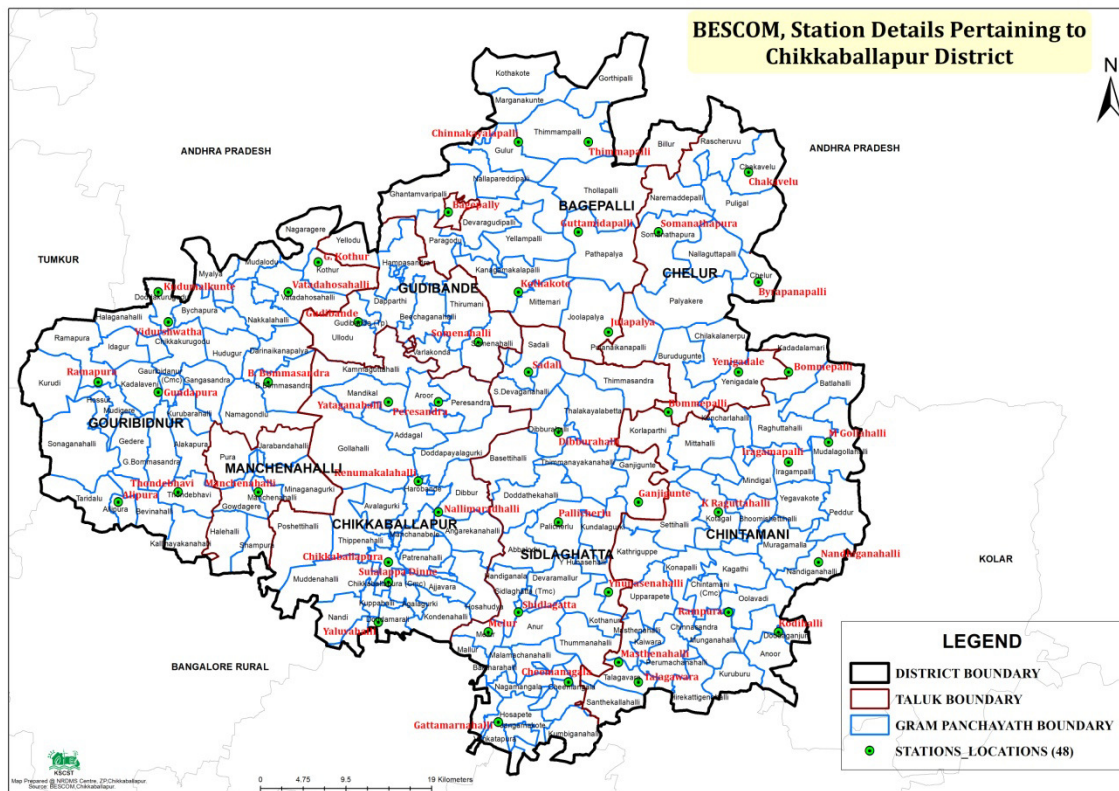
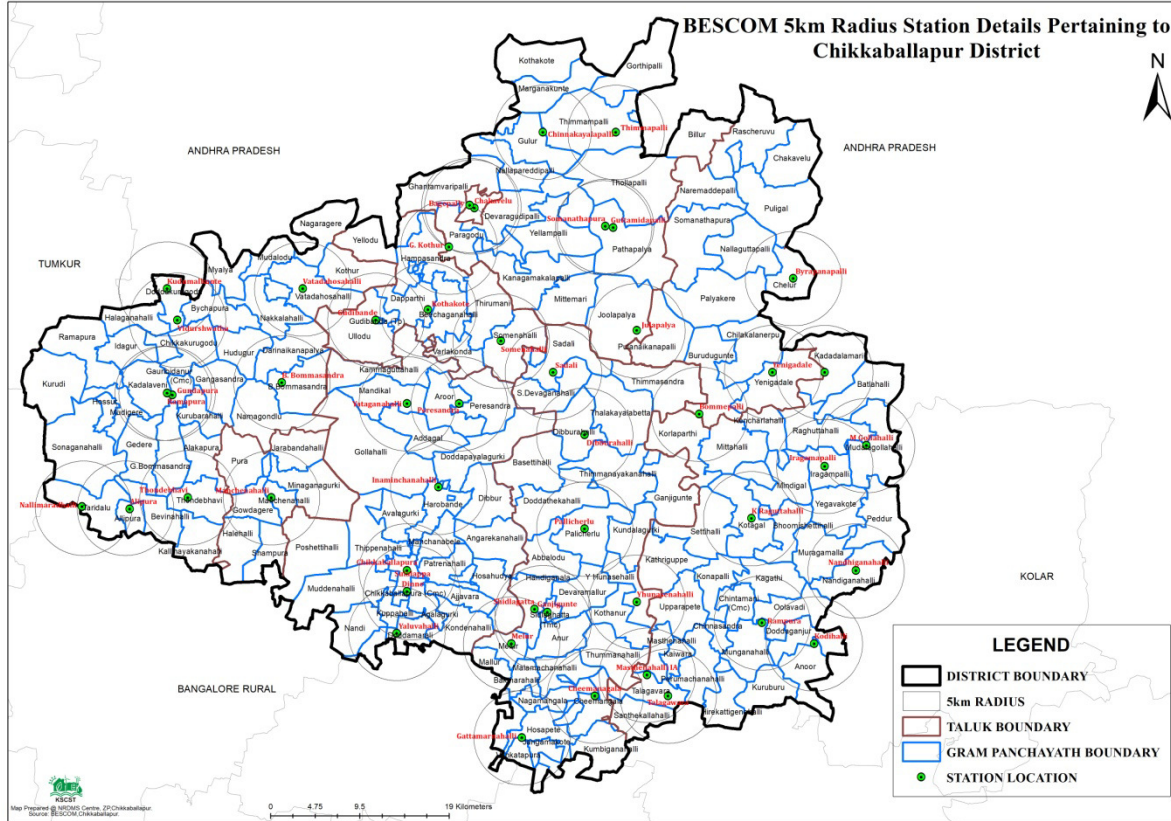
Table: 8

SINO	NAME OF THE 220 KV STATION	NAME OF THE 66 KV STATION	District	Taluk	Gramapanchyat h	Village	Latitude	Longitude
1	220RS MITTEMARI	CHELUR_66	Chikkaballapura	Bagepally	Chelur	Byrapanapalli	13.71	78.10
2	220RS MITTEMARI	BAGEPALLI_66	Chikkaballapura	Bagepally	TMC Bagepally Town	Bagepally	13.78	77.79
3	220RS MITTEMARI	GULUR_66	Chikkaballapura	Bagepally	Gulur	Chinnakayalapalli	13.85	77.86
4	220RS MITTEMARI	JULUPALYA_66	Chikkaballapura	Bagepally	Julapalya	Julapalya	13.66	77.95
5	220RS MITTEMARI	PATHAPALYA_66	Chikkaballapura	Bagepally	Pathapalya	Guttamidapalli	13.76	77.92
6	220RS MITTEMARI	MITTEMARI_66	Chikkaballapura	Bagepally	Kanaganamakan apalli	Kothakote	13.70	77.86
7	220RS MITTEMARI	THIMMAMPALLI_66	Chikkaballapura	Bagepally	Thimmapalli	Thimmapalli	13.85	77.93
8	220RS MITTEMARI	CHAKAVELU_66	Chikkaballapura	Chelur	Chakavelu	Chakavelu	13.82	78.09
9	220RS MITTEMARI	SOMNATHPURA_66	Chikkaballapura	Chelur	Somanathapura	Somanathapura	13.76	78.00
10	220RS MITTEMARI	YENIGADALE_66	Chikkaballapura	Chelur	Yenigadale	Yenigadale	13.62	78.08
11	220RS DB PURA	CHIKKABALLAPURA I/A_66	Chikkaballapura	Chikkaballapura	Agalagurki	Sulalappa Dinne	13.41	77.73
12	220RS DB PURA	CHIKKABALLAPURA URBAN_66	Chikkaballapura	Chikkaballapura	CMC Chikkaballapura Town	Chikkaballapura	13.43	77.73
13	220RS DB PURA	MUDDENAHALLI (NANDI)_66	Chikkaballapura	Chikkaballapura	Doddamarali	Yaluvahalli	13.37	77.72
14	220RS MITTEMARI	MANDIKAL_66	Chikkaballapura	Chikkaballapura	Mandikal	Yataganahalli	13.59	77.73

15	220RS MITTEMARI	RAMADEVARAGUDI_66	Chikkaballapura	Chikkaballapura	Doddapayalagurki	Inaminchanahalli	13.51	77.76
16	220RS MITTEMARI	NALLIMARADANAHALI_66	Chikkaballapura	Chikkaballapura	Dibbur	Nallimaradhalli	13.48	77.78
17	220RS MITTEMARI	PERESANDRA_66	Chikkaballapura	Chikkaballapura	Peresandra	Peresandra	13.59	77.78
18	220RS CHINTHAMANI	BOMMEPALLI_CROSS_66	Chikkaballapura	Chinthamani	Yenigadale	Bommepalli	13.62	78.13
19	220RS CHINTHAMANI	BURUDUGUNTE_66	Chikkaballapura	Chinthamani	Burudugunte	Bommepalli	13.58	78.01
20	220RS CHINTHAMANI	CHINTAMANI_66	Chikkaballapura	Chinthamani	Olavadi	Rampura	13.38	78.07
21	220RS CHINTHAMANI	IRAGAMPALLI_66	Chikkaballapura	Chinthamani	Iragamapalli	Iragamapalli	13.53	78.13
22	220RS CHINTHAMANI	K_RAGUTTAHALI_66	Chikkaballapura	Chinthamani	Kotagal	K Raguttahalli	13.48	78.06
23	220RS CHINTHAMANI	MGHALI_66	Chikkaballapura	Chinthamani	M Gollahalli	M Gollahalli	13.55	78.17
24	220RS CHINTHAMANI	NANDIGANAHALLI_66	Chikkaballapura	Chinthamani	Nandhiganahalli	Nandhiganahalli	13.43	78.16
25	220RS CHINTHAMANI	TALAGAWARA_66	Chikkaballapura	Chinthamani	Talagawara	Talagawara	13.31	77.98
26	220RS CHINTHAMANI	MASTHENAHALLI_66	Chikkaballapura	Chinthamani	Masthenahalli	Masthenahalli IA	13.33	77.96
27	220RS SRINIVASAPURA	KODIHALI_BGR_66	Chikkaballapura	Chinthamani	Doddaganjur	Kodihalli	13.36	78.12
28	220RS GOWRIBIDANUR	GOWRIBIDANUR_66	Chikkaballapura	Gowribidanur	CMC Gowribidanur Town	Gundapura	13.60	77.50
29	220RS GOWRIBIDANUR	KUDMALKUNTE_66	Chikkaballapura	Gowribidanur	Doddakurugodu	Kudumalkunte	13.70	77.50

30	220RS GOWRIBIDANUR	VIDURASHWATHA_6 6	Chikkaballapura	Gowribidanur	Doddakurugodu	Vidurshwatha	13.67	77.51
31	220RS GOWRIBIDANUR	THONDEBHAVI_66	Chikkaballapura	Gowribidanur	Thondebhavi	Thondebhavi	13.50	77.52
32	220RS GOWRIBIDANUR	ALIPURA_66	Chikkaballapura	Gowribidanur	Alipura	Alipura	13.49	77.46
33	220RS GOWRIBIDANUR	HOSUR RAMAPURA_66	Chikkaballapura	Gowribidanur	Ramapura	Ramapura	13.61	77.44
34	220RS GOWRIBIDANUR	GUNDLU KOTHUR_66	Chikkaballapura	Gowribidanur	G. Kothur	G. Kothur	13.73	77.66
35	220RS GOWRIBIDANUR	D PALYA_66	Chikkaballapura	Gowribidanur	B. Bommasandra	B. Bommasandra	13.61	77.61
36	220RS GOWRIBIDANUR	VATADAHOSAHALLI _66	Chikkaballapura	Gowribidanur	Vatadahosahalli	Vatadahosahalli	13.70	77.63
37	220RS GOWRIBIDANUR	GUDIBANDE_66	Chikkaballapura	Gudibande	TMC Gudibande Town	Gudibande	13.67	77.70
38	220RS GOWRIBIDANUR	SOMENAHALLI_66	Chikkaballapura	Gudibande	Somenahalli	Somenahalli	13.65	77.82
39	220RS GOWRIBIDANUR	MANCHENAHALLI_6 6	Chikkaballapura	Manchenahalli	Manchenahalli	Manchenahalli	13.50	77.60
40	220RS CHINTHAMANI	CHEEMANGALA_66	Chikkaballapura	Shidlagatta	Cheemanagala	Cheemanagala	13.31	77.91
41	220RS CHINTHAMANI	DIBBURAHALLI_66	Chikkaballapura	Shidlagatta	Dibburahalli	Dibburahalli	13.56	77.90

42	220RS CHINTHAMANI	GANJIGUNTE_66	Chikkaballapura	Shidlagatta	Ganjigunte	Ganjigunte	13.49	77.98
43	220RS CHINTHAMANI	MELUR_66	Chikkaballapura	Shidlagatta	Melur	Melur	13.36	77.83
44	220RS CHINTHAMANI	PALLICHERLU_66	Chikkaballapura	Shidlagatta	Pallicherlu	Pallicherlu	13.47	77.90
45	220RS CHINTHAMANI	SIDLAGHATTA_66	Chikkaballapura	Shidlagatta	Shidlagatta	Shidlagatta	13.38	77.86
46	220RS CHINTHAMANI	YHUNASENAHALLI_66	Chikkaballapura	Shidlagatta	Yhunasenahalli	Yhunasenahalli	13.40	77.95
47	220RS DODDABALLAPURA	JANGAMAKOTE_66	Chikkaballapura	Shidlagatta	Hospete	Gattamarnahalli	13.27	77.84
48	220RS MITTEMARI	SADALI_66	Chikkaballapura	Shidlagatta	Sadali	Sadali	13.62	77.87



Use of GIS for Election Department – Chikkaballapur District

1. Objective:

As per the decisions taken in the meeting held under the chairmanship of the respected Deputy Commissioner of Chikkaballapur District, this work was undertaken in connection with the upcoming Taluk and Zilla Panchayath General Elections – 2026.

The meeting focused on the re-delimitation of constituencies and the preparation of election-related maps. The primary objective was to generate accurate maps of Taluk and District Panchayath constituencies using GIS technology through the NRDMS centre, in order to submit a detailed report to the State Chief Election Officer.

2. Methodology:

Required data was collected from the District Election Department. The collected data was digitized and integrated into a database using Arc GIS 10.3 software.

Based on the processed data, constituency boundary maps were prepared, clearly depicting the delimitation of Taluk and Zilla Panchayath constituencies. The finalized maps were verified and submitted to the Election Department.

3. Applications of GIS Mapping:

In Chikkaballapur District:

- Total Taluk Panchayath Constituencies: 106
- Total Zilla Panchayath Constituencies: 29

Using GIS technology, all constituency boundaries were accurately mapped and visualized. These maps are highly useful for:

- Constituency delimitation
- Election planning and management
- Administrative decision-making

4. Conclusion:

The use of GIS technology has enabled precise identification and mapping of constituency boundaries, making election planning more efficient, transparent, and systematic. It significantly supports decision-making and enhances the overall effectiveness of the election process.







Conclusion:

- **Summary of Activities under Take.**

District NRDMS Chickballapur maintaining various databases and providing maps to all line departments. NRDMS is supporting mainly DC office, Election branch, social forest, Disaster management department and all line departments in mapping work and data base creation. Many types of data are used for more than one purpose by more and more one user.

- **Commitment to Improve NRDMS Activities.**

- Large Diversity of Spatial Data
- Many types of data are used for more than one purpose by more and more one user.
- Utility of data set may be greatly enhanced by merging or linking it with other data sets.
- Reliability/ consistency can be enhanced by correlating different parameters.
- Many organizations are involved in data collection and updating.
- Need for standardization/ compatibility of procedures of data collection and adaptation.
- Need to improve the utilization of data for decision making.

Annexure:**List of Tables:**

- 1) WPP details of Chickballapur District
- 2) Working and not working RO plants ,WPP Handed & not handed over to GP
- 3) Contaminated parameter table of Fluoride Chickballapur Taluk
- 4) Contaminated parameter table of Nitrate Chickballapur Taluk
- 5) Contaminated parameter table of Fluoride Gudibande Taluk
- 6) Contaminated parameter table of Nitrate Gudibande Taluk
- 7) Details of the Diseases reported from Jan to Dec 2025
- 8) Station details pertaining to Chickballapur district

List of Maps:

- 1) 1km Radius RO plants location map
- 2) Population density map, 1km Radius RO plants location map
- 3) Department wise 1km radius RO plants location map
- 4) Handed over to GP and not handed over to GP RO plants map
- 5) Working & not working RO plants map
- 6) Water quality base sample analysis (Fluoride)
- 7) Water quality base sample analysis (Nitrate)
- 8) PHC wise Breast cancer reported cases map
- 9) PHC wise Cervical cancer reported cases
- 10)PHC wise Dengue reported cases
- 11)PHC wise Hyper tension & Diabetes Mellitus reported cases
- 12) PHC wise Oral cancer reported cases
- 13) PHC wise Malaria reported cases
- 14)BESCOM 5km Radius station details map
- 15)BESCOM station details pertaining to Chickballapur district
- 16)Taluk Panchayath Constituency map
- 17) Zilla Panchayath Constituency map