

NATURAL RESOURCES DATA MANAGEMENT SYSTEM (NRDMS)

MONTHLY ACTIVITY REPORT
April - July 2025

Submitted by



District NRDMS Centre
Zilla Panchayat, Koppal

Submitted to
Karnataka State Council of Science and
Technology
(KSCST)

Indian Institute of Science Campus,
Bengaluru - 560012

INDEX		
Sl. No	Particulars	Page No.
1	Basic Information of District	1
2	Background of District NRMDS Centre Koppal	1
3	A. Geographical Features	1
	B. Topography	2
	C. Climate	3
4	Spatial and Non-Spatial Data available in District	3-6
5	NRDMS Centre activities (April to July 2025)	7-16
6	Conclusion	17

1. Basic Information of Koppal District:

District Name: Koppal

Division: Kalaburagi

District Establishment Year:1997

Headquater: Koppal City

Current CPO (I/C): Manjunath D, Chief Planning Officer, Zilla Panchayat, Koppal.

Current CEO (CC): Varnit Negi, IAS, Zilla Panchayat, DC Office, Koppal.

2. Background of District NRDMS Centre, Koppal:

NRDMS programme aims to analyze the evolution of methodologies and techniques for formulating development strategies. In a scenario of large diversity of data sets, data users and data generating agencies, the programme aims at developing and demonstrating the use of spatial decision support tools for integrated planning and management of resources at the local level.

Koppal district was new district carved out of undivided Raichur district in the year 1997 and District NRDMS Centre was established in the year 2007-08 at Zilla Panchayat Office. District NRDMS Centre is been actively involved in providing Geospatial support to Zilla Panchayat office, District administration and line departments of the districts for better planning and execution of development work.

3. Geographical Features:

A. Location & Boundaries:

Introduction

Koppal, a newborn district of Karnataka state, carved out of Raichur District. It is situated between 15° 09' 00" to 16° 03' 30" North Latitude and 75° 47' 30" to 76° 48' 10" East Longitude. It consists of four talukas Koppal, Gangavathi, Kushtagi, Yelburga and Newly formed three talukas (19.01.2018)Kanakagiri, Karatagi and (18.01.2018) Kukanoor. Koppal district is surrounded by Raichur district in the east, Koppal district in the West, Bagalkot district in the north, Bellary district in the south. Koppal District headquarters is closest to the world heritage Hampi.

Koppal district is an administrative district in the state of Karnataka in India. In the past Koppal was referred to as 'Kopana Nagara' Hampi, a World heritage centre, covers some areas

of Koppal District. It is situated approximately 38 km away. Anegundi, is also a famous travel destination.

Koppal District located in the northern interior of Karnataka has an area of 8,458 sq km. It is bounded by the districts of Raichur, Bagalkot, Koppal, and Bellary. Koppal district is the best seed production centre in the state. Several national seed companies have seed production centres for flowers, fruits, vegetables and pulses here. Anegundi, Kanakagiri, Navabrindavana, and Kuknur are the important places to visit.

Geographically, Koppal is a stretch of rocky terrain on one side and acres of dry land on the other wherein agricultural crops like Jowar, Ground-nuts etc are grown. Farmers still use the old Bullock-Cart ploughing methods, depending mainly on the Monsoons which is a rarity in these parts of the world. However recently some of them have ventured into high-tech irrigational Farming especially after the Thunga-Bhadra river waters from the neighbouring town of Munirabad (20kms away with a huge Dam) is been redirected to the Town to solve its water problems. So, the current product crops are Pomegranites, Grapes and Figs (which are being exported)

The administrative blocks of the district are as follows

- No. of Talukas : 4 and Newly formed Talukas: 3
- No. of Hoblis : 20
- No. of Inhabited villages : 594
- No. of Un-Inhabited Villages : 35
- No. of City & Municipal Corporation/Councils/Town Panchayath : 9
- No. of Gram Panchayath : 153

Topography:

The Koppal district of Karnataka is a region with a varied topography characterized by plains, undulating terrain, and significant river systems, notably the Tungabhadra River, which is crucial for the region's agriculture and infrastructure. The topography includes elevated areas, such as Koppal Hill, where historic forts and temples are located, and lower-lying areas along the river, contributing to the overall surface features of the district.

C. Climate:

Koppal District generally has a semi-arid climate with a warm temperature year-round, though it experiences distinct seasons. The district receives an average annual rainfall of about 572 mm, with the rainy season lasting roughly from late March to late November, and the peak rainy month being September. Temperatures are typically high, especially in the summer, but there are also cooler periods during the winter.

4. Spatial & Non-Spatial Data:

Status Code : Meaning

CC : Computerised.
 ND : Not Digitized
 NA : Not Procured
 NR : Not Relevant
 NF : Not Finalised

SPATIAL DATABASE

Sector / Subsector	Scale	Source	Survey / Publn. Year	Area cover ed	Status Code	File For mat
1. Natural Resources						
<i>Land</i>						
1. Topography						
Contour Map	30 Mtr	ASTER DEM		District	CC	.Shp
Slope Map	1:50,000	KRSAC		District	CC	.Shp
2. Geology – A						
Rock features	1:50,000	KRSAC		District	CC	.Shp
Structural features	1:50,000	KRSAC		District	CC	.Shp
3. Geology – B						
Rock features		NA				
Structural features		NA				
4. Mineral Resources		NA				
5. Geomorphology	1:50,000	KRSAC		District	CC	.Shp
6. Land use	1:50,000	KRSAC		District	CC	.Shp
7. Waste Lands		NA				
8. Soils	1:25,000	NBSS & LUP		District	CC	.Shp
9. Forest & Wildlife						
Forest type	1:50,000	KFD		District	CC	.Shp

Crown Density		NA				
Forest Category		NA				
Forest admn.	1:50,000	KFD		District	CC	.Shp
Wild Life		NA				
Water						
1.Ground water						
Hydro Geology		NA				
Hydro chemistry		NA				
Ground water budget		NA				
2.Surface water						
Drainage	1:50,000	SOI		District	CC	.Shp
Surface water bodies	1:50,000	SOI & KRSAC		District	CC	.Shp
3.Climate		NA				

Sector / Subsector	Scale	Source	Survey / Publn. Year	Area covered	Status Code	File Format
2.Demography						
Population						
Tehsil boundary	1:50,000	SOI		District	CC	.Shp
District boundary	1:50,000	SOI		District	CC	.Shp
Current popln. distbn.	1:50,000	SOI		District	CC	.Shp
Literacy						
Levels of education		NA				
Occupation						

Village boundary	1:50,000	SOI		District	CC	.Shp
Employment						
District scenario		NA				
Employment exchange		NA				
Assets & Expenditure		NA				
Migration		NA				
Destitutes		NA				

3.Socio Economy						File Format
Industry		NA				
Developmental activity		NA				
4.Agro Economy						
Land Utilisation						
Private Land		NA				
Common property		NA				
Land Ownership pattern						
General scenario		NA				
Farmer's holdings		NA				
Principal crops		NA				
Irrigation						
<i>Minor irrigation</i>						
Canals	1:50,000	DLR & SS (KRSAC)	District	CC	.Shp	
Tube wells		NA				
Dug wells		NA				
Tanks	1:50,000	DLR & SS (KRSAC)	District	CC	.Shp	
Lift irrigation		NA				

<i>Major irrigation</i>						
Reservoirs	1:50,000	DLR & SS(KSRSA C)	District	CC	.Shp	
Anicuts		NA				
Agricultural implements						
Animal husbandry	1:50,000	AHVS	District	CC	.Shp	
Pisciculture		NA				
Plantation		NA				

Sector / Subsector	Scale	Source	Survey / Publ. Year	Area covered	Status Code	File Format
5.Infrastructure						
Communications						
Post offices	1:50,000	NA				
Telecommunication		NA				
Drinking water		NA				
Educational facilities	1:50,000	DDPI	District	CC	.Shp	
Electricity		Land Records				
Financial institutions		NA				
Markets		NA				
Health	1:50,000	DHO	District	CC	.Shp	
NGO's		NA				
Tourism	1:50,000	KSTDC	District	CC	.Shp	
Transport	1:50,000	PWD & SOI	District	CC	.Shp	
6.Miscellaneous						
District map with taluks	1:50,000	SOI	District	CC	.Shp	

District & taluk boundaries	1:50,000	SOI	District	CC	.Shp	
District map with hoblies	1:50,000	DLR & SS	District	CC	.Shp	
Village boundary with settlement	1:50,000	SOI/KSR AC	District	CC	.Shp	
Police station details	1:50,000	SP	District	CC	.Shp	
Details on Assembly constituencies	1:50,000	DC	District	CC	.Shp	
Gram Panchayths & Zilla Panchayaths, its jurisdiction for all taluks	1:50,000	DC	District	CC	.Shp	

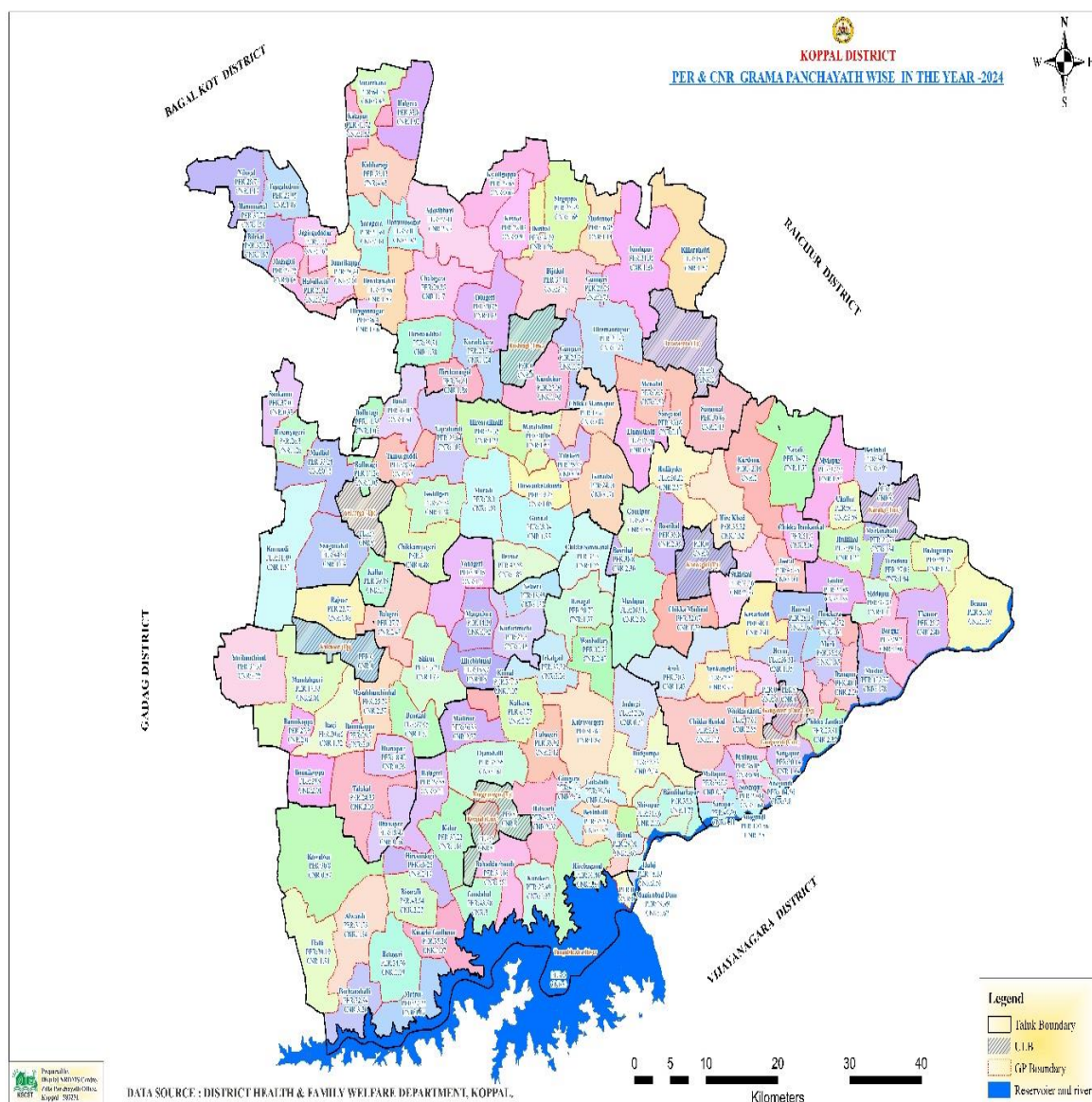
Additional Data

Cadastral Boundary	NA	NA	District	NA	NA	NA
--------------------	----	----	----------	----	----	----

5. Major Activities Carried Out during the period of April-July 2025:

Activity -1

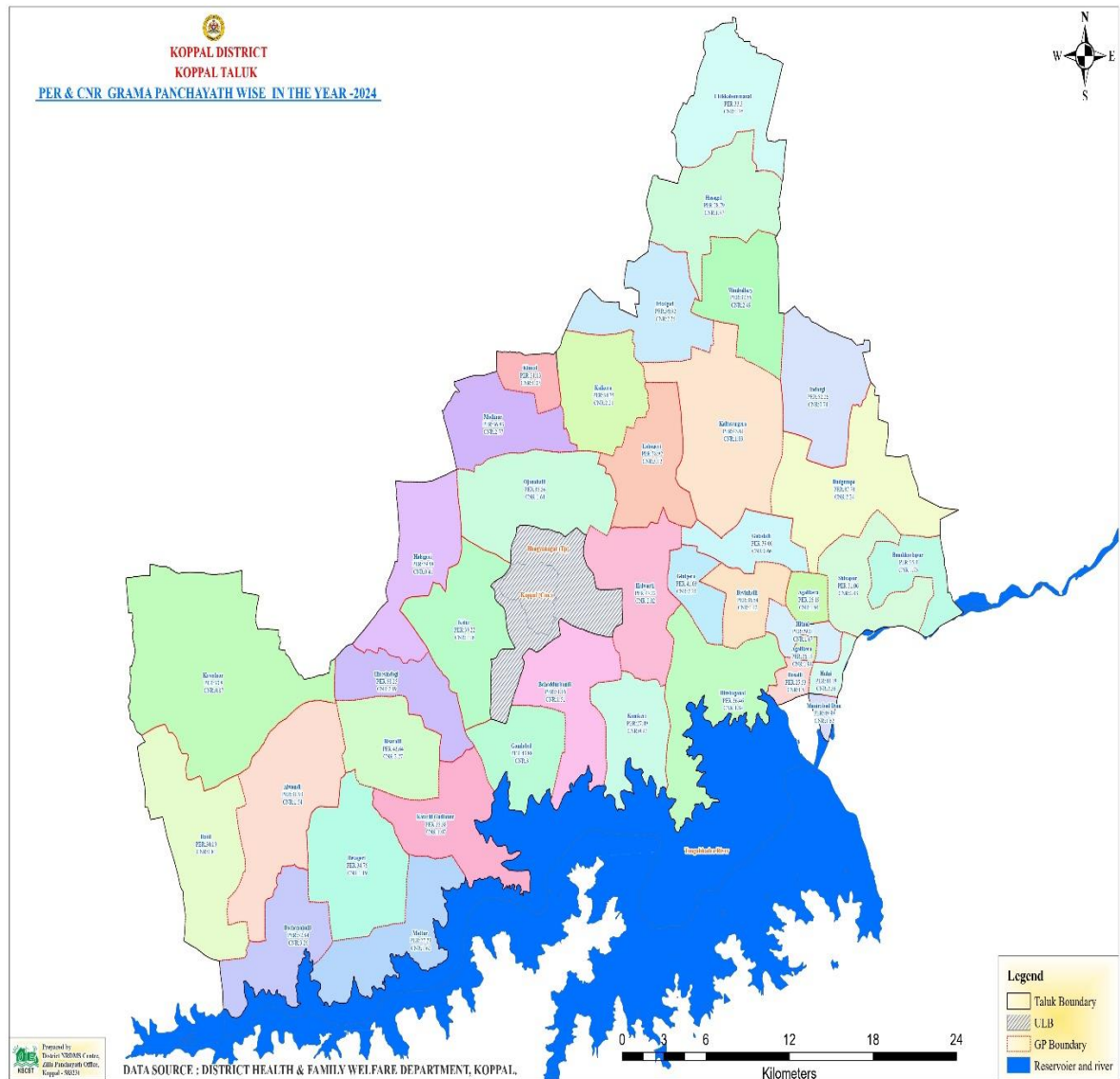
Title of work	Tuberculosis Map of PER & CNR Grama Panchayath Wise in the year -2024
Department Name	District Health & Family Welfare Department, koppal.
Objectives	Gram Panchayat wise To identify the gram panchayats related to tuberculosis and take action to make them tuberculosis free.
Data Used	Taluk Boundary, and GP boundary, ULB
Data Process	Tuberculosis Map of PER & CNR Grama Panchayath Wise thematic map
Type of Data Provided	PDF Map was provided



6. Major Activities Carried Out during the period of April-July 2025:

Activity -1

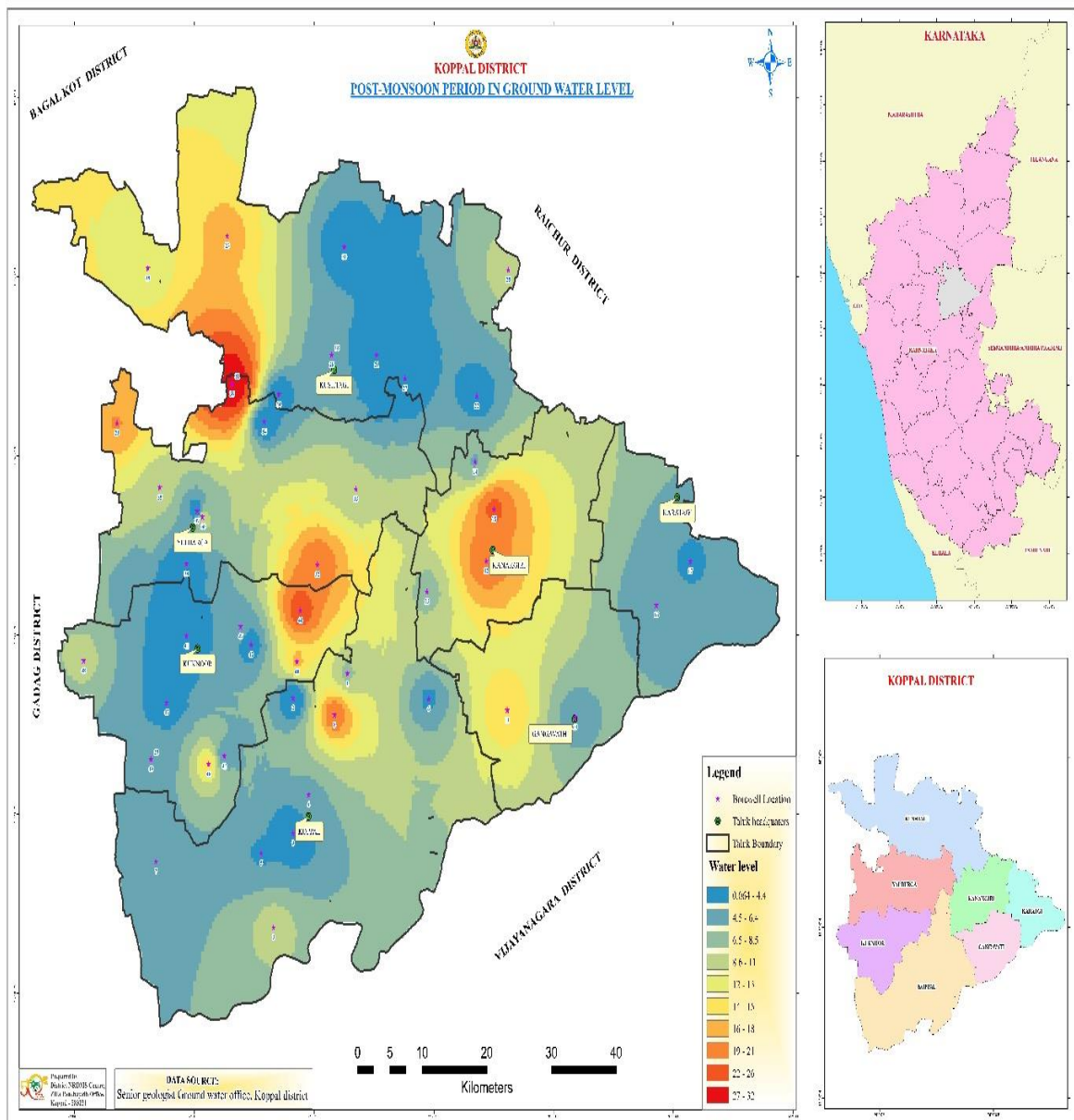
Title of work	Tuberculosis Map of PER & CNR Grama Panchayath Wise in the year -2024
Department Name	District Health & Family Welfare Department, koppal.
Objectives	Koppal taluk Gram Panchayat wise To identify the gram panchayats related to tuberculosis and take action to make them tuberculosis free.
Data Used	Taluk Boundary, and GP boundary, ULB
Data Process	Tuberculosis Map of PER & CNR Grama Panchayath Wise thematic map
Type of Data Provided	PDF Map was provided



7. Major Activities Carried Out during the period of April-July 2025:

Activity -1

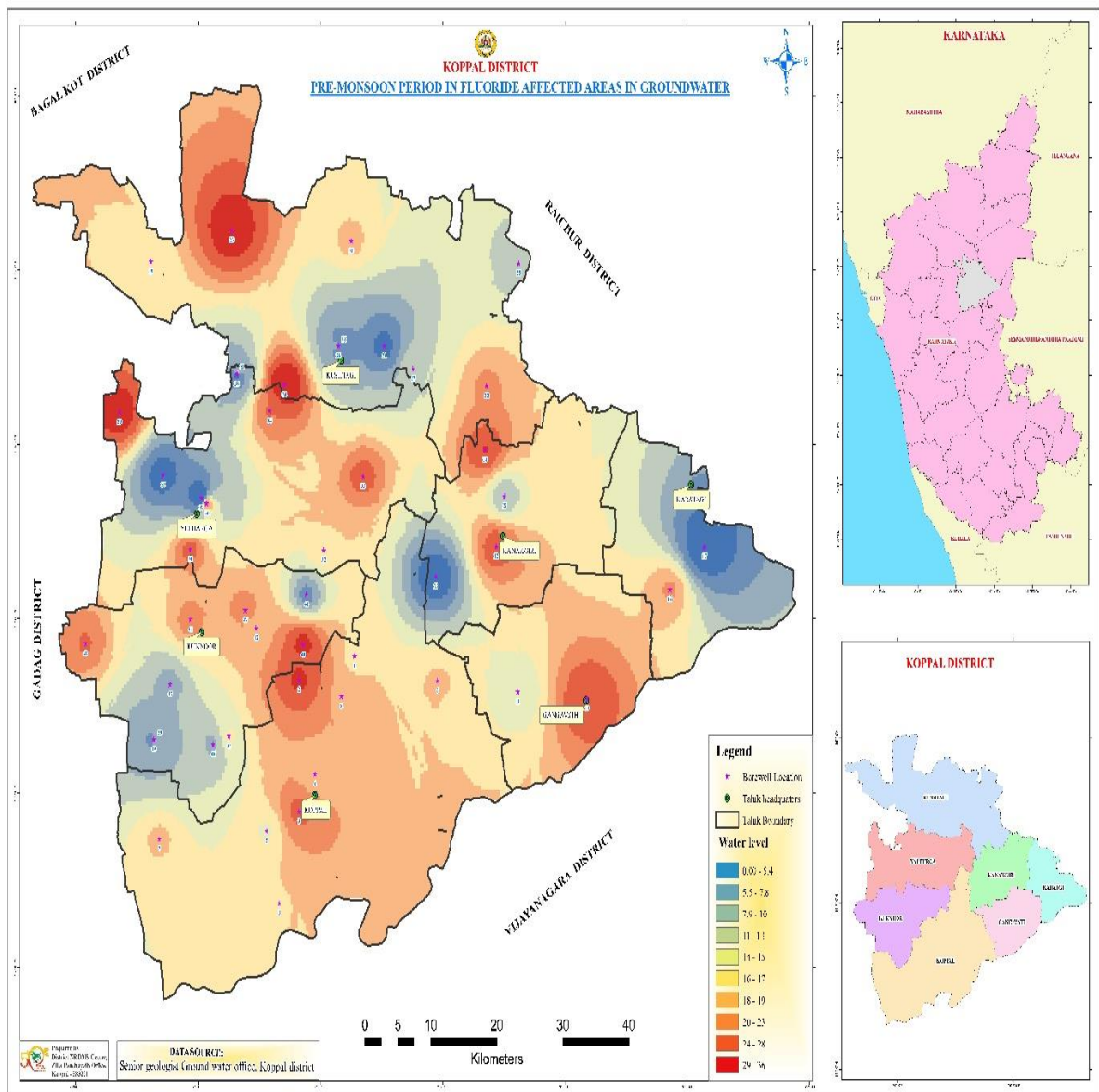
Title of work	Post-monsoon period in ground water level
Department Name	Senior geologist, groundwater department koppal district
Objectives	The solution is to identify the specific locations of groundwater and take measures to determine the amount of groundwater through these locations and conduct studies
Data Used	Taluk Boundary, borewell location and xl data
Data Process	Borewell location and IDW tools & xl data
Type of Data Provided	PDF Map was provided



8. Major Activities Carried Out during the period of April-July 2025:

Activity -1

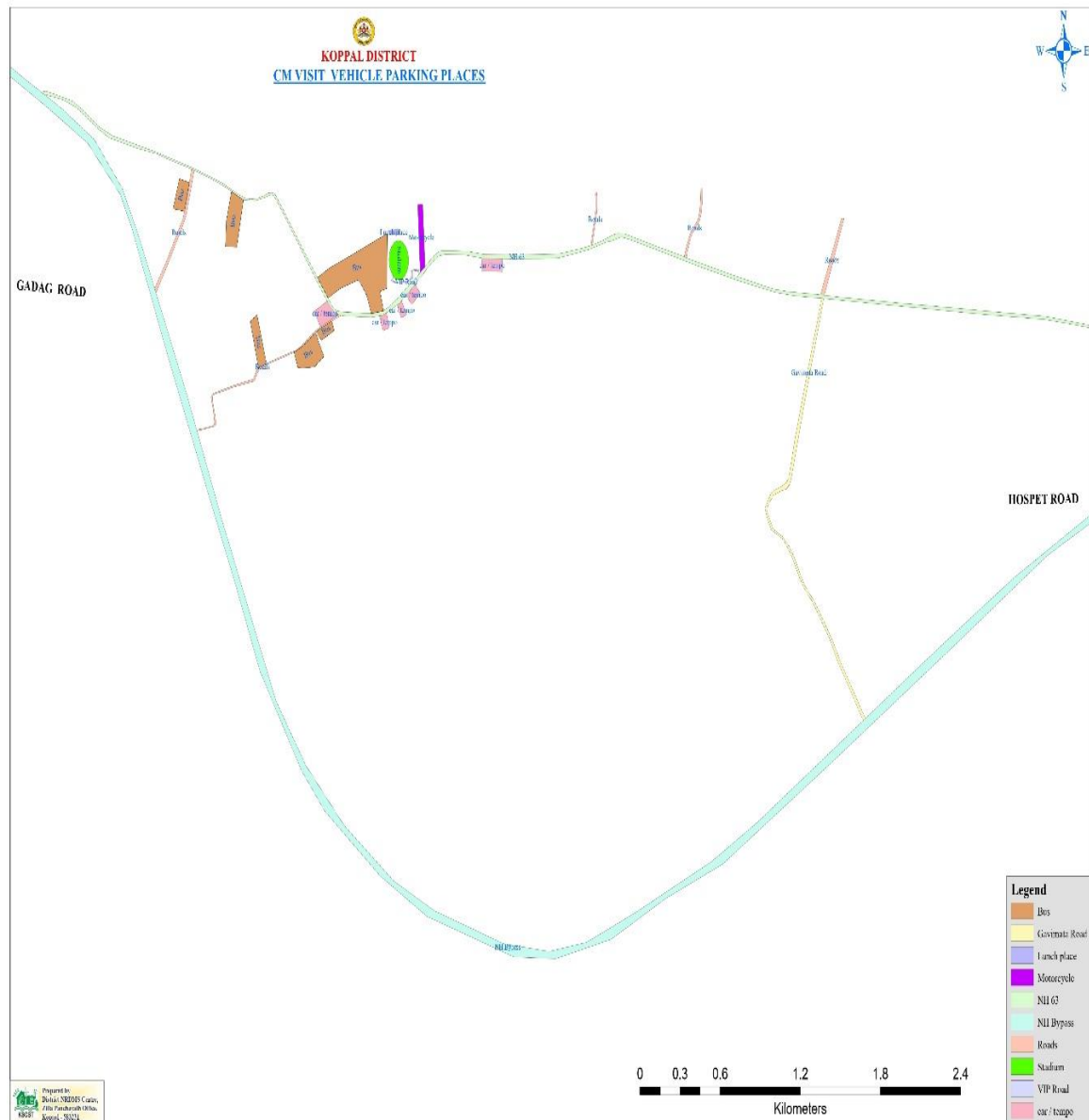
Title of work	pre-monsoon period in fluoride affected areas in groundwater
Department Name	Senior geologist, groundwater department koppal district
Objectives	The solution is to identify the specific locations of groundwater and take measures to determine the amount of groundwater through these locations and conduct studies, This is helpful in identifying fluoride areas affected by groundwater pollution and taking necessary steps.
Data Used	Taluk Boundary, borewell location and xl data
Data Process	Borewell location and IDW tools & xl data
Type of Data Provided	PDF Map was provided



9. Major Activities Carried Out during the period of April-July 2025:

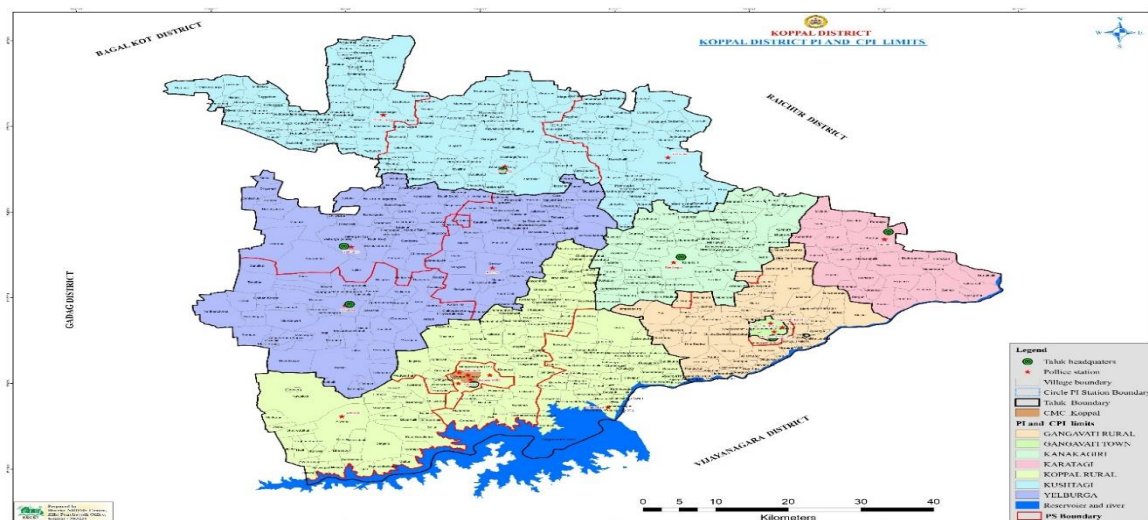
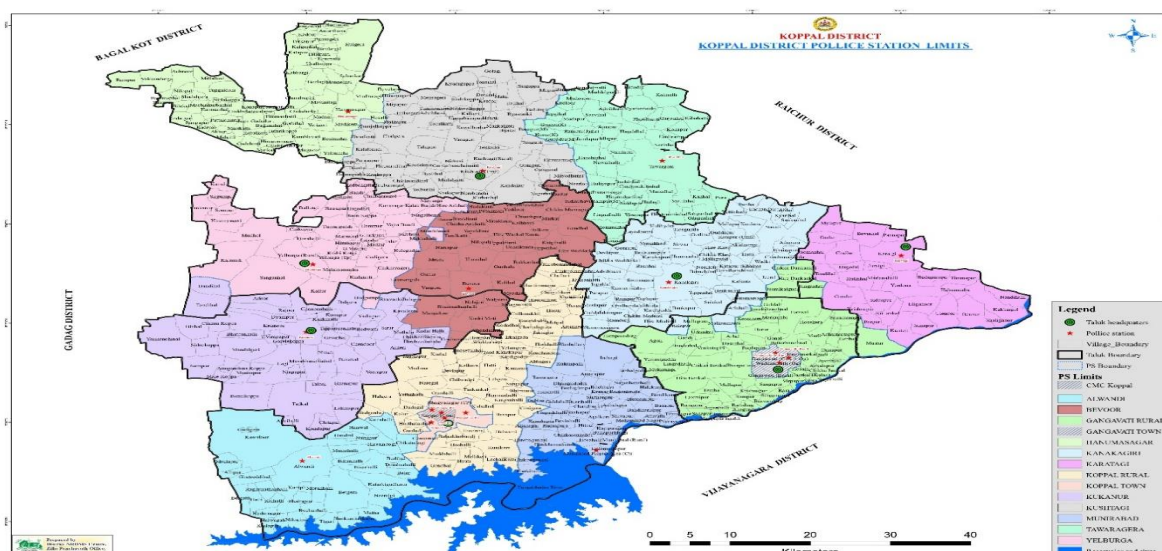
Activity -1

Title of work	CM visit vehicle parking places
Department Name	District Superintendents of Police, koppal district
Objectives	As the Hon'ble Chief Minister is coming to Koppal district, for his security, he has arranged the roads and roads for parking to ensure that no mishaps occur and it is helpful to create a better arrangement for the general public.
Data Used	Google earth and xl data
Data Process	Google earth Arc gis & xl data
Type of Data Provided	PDF Map was provided



Activity -1

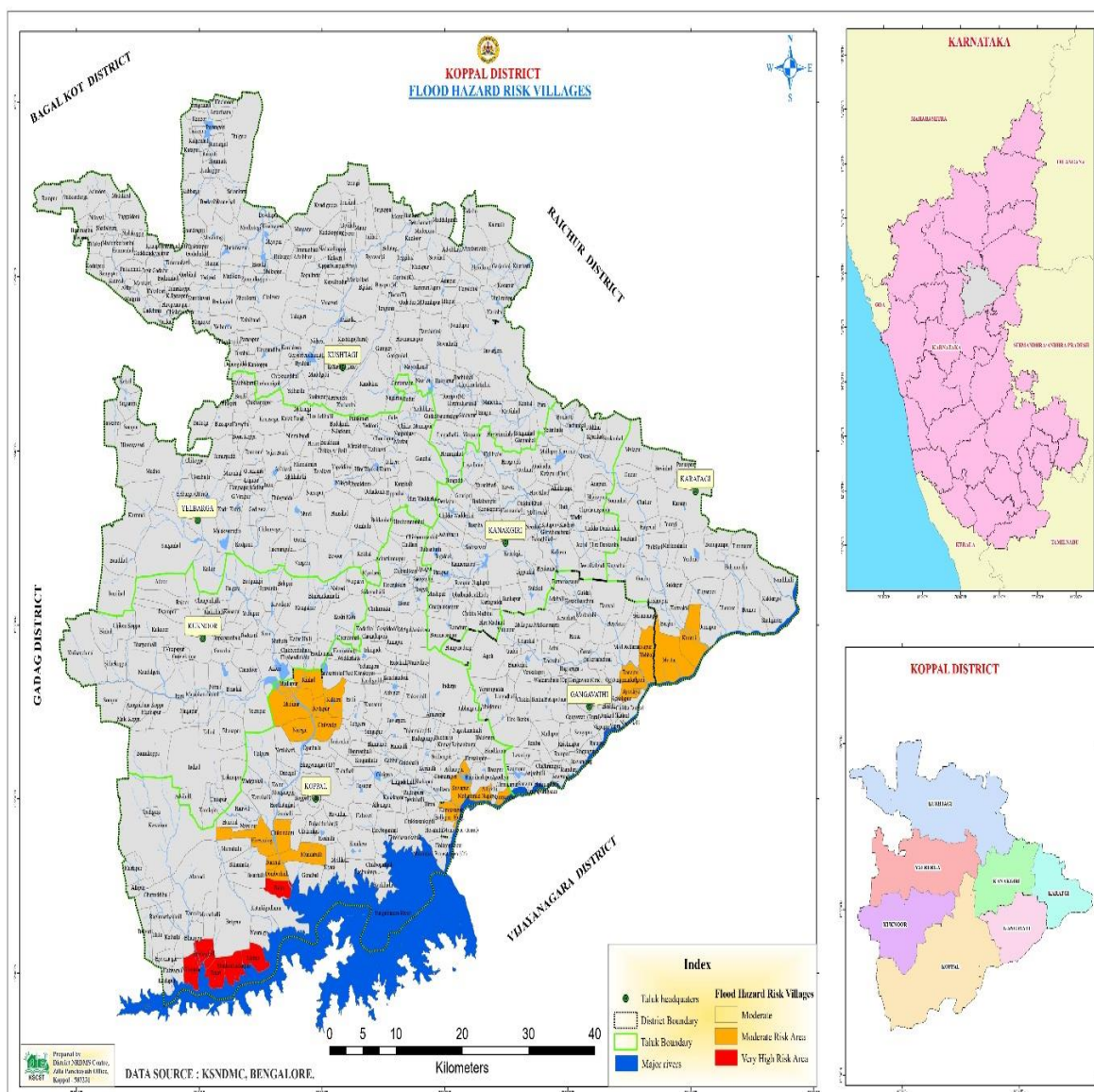
Title of work	Administrative Maps
Department Name	District Superintendents of Police, koppal district.
Objectives	To maintain law and order in Koppal District police station, circle and sub-divisional areas, it is necessary to revise and prepare new maps to create sectors during elections and to maintain law and order.
Data Used	xl data
Data Process	Taluk boundary and village boundary Arc gis & xl data thematic map
Type of Data Provided	PDF Map was provided



11. Major Activities Carried Out during the period of April-July 2025:

Activity -1

Title of work	Flood hazards maps
Department Name	Deputy Commissioner Office, koppal district.
Objectives	Flood hazard. The potential loss of life, injury and economic loss caused by future flood events. The degree of hazard varies with the severity of flooding and is affected by flood behaviour (extent, depth, velocity, isolation, rate of rise of floodwaters, duration), topography and emergency management.
Data Used	xl data
Data Process	Taluk boundary and village boundary Arc gis & xl data thematic map
Type of Data Provided	PDF Map was provided



12. Major Activities Carried Out during the period of April-July 2025:

Activity -1

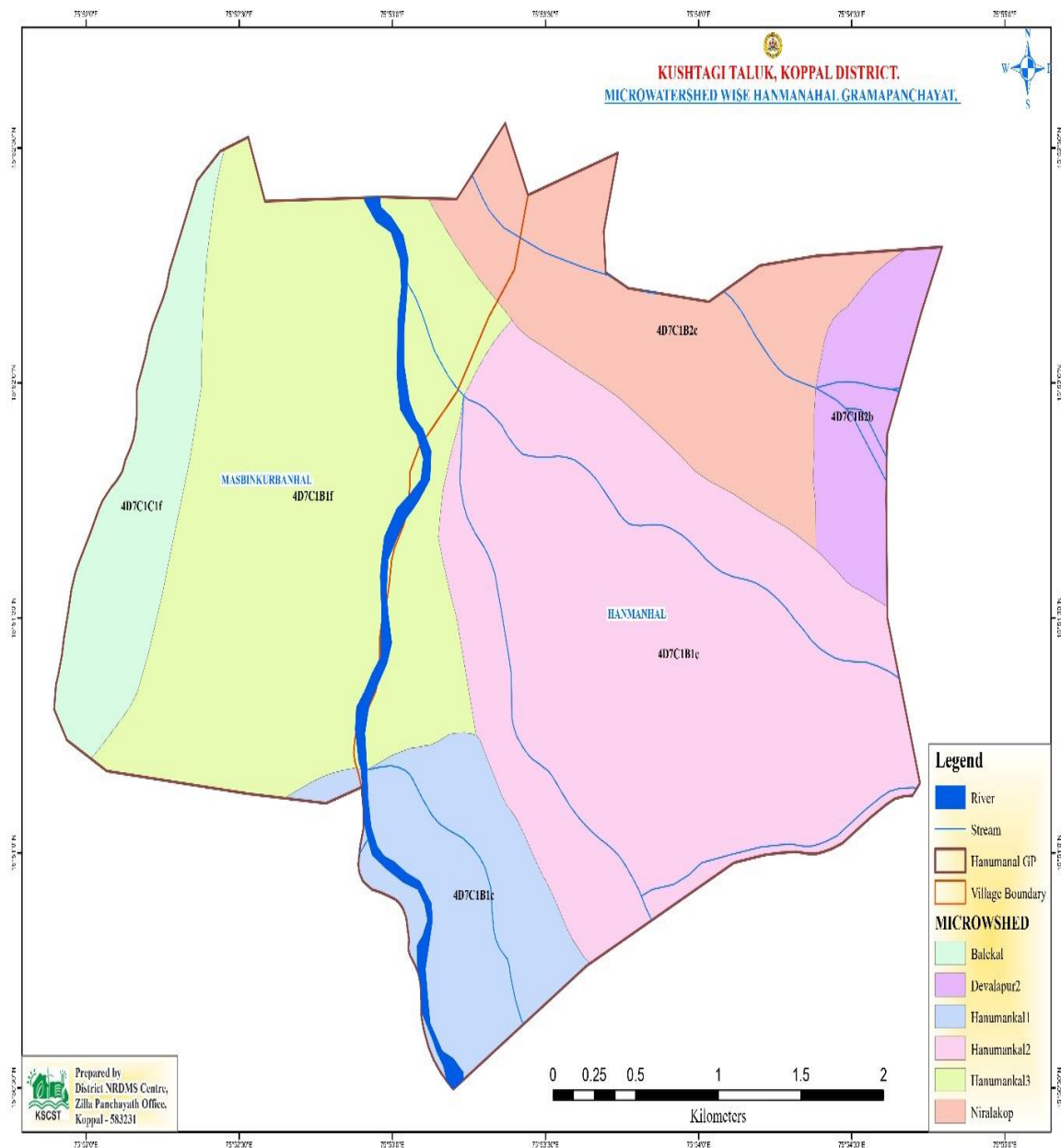
Title of work	Koppal Fort map
Department Name	Deputy Commissioner Office, koppal district.
Objectives	To develop the Koppal Fort, a map of its area related to Koppal Fort has been prepared
Data Used	Google earth Pro
Data Process	Arc gis
Type of Data Provided	PDF Map was provided



13. Major Activities Carried Out during the period of April-July 2025:

Activity -1

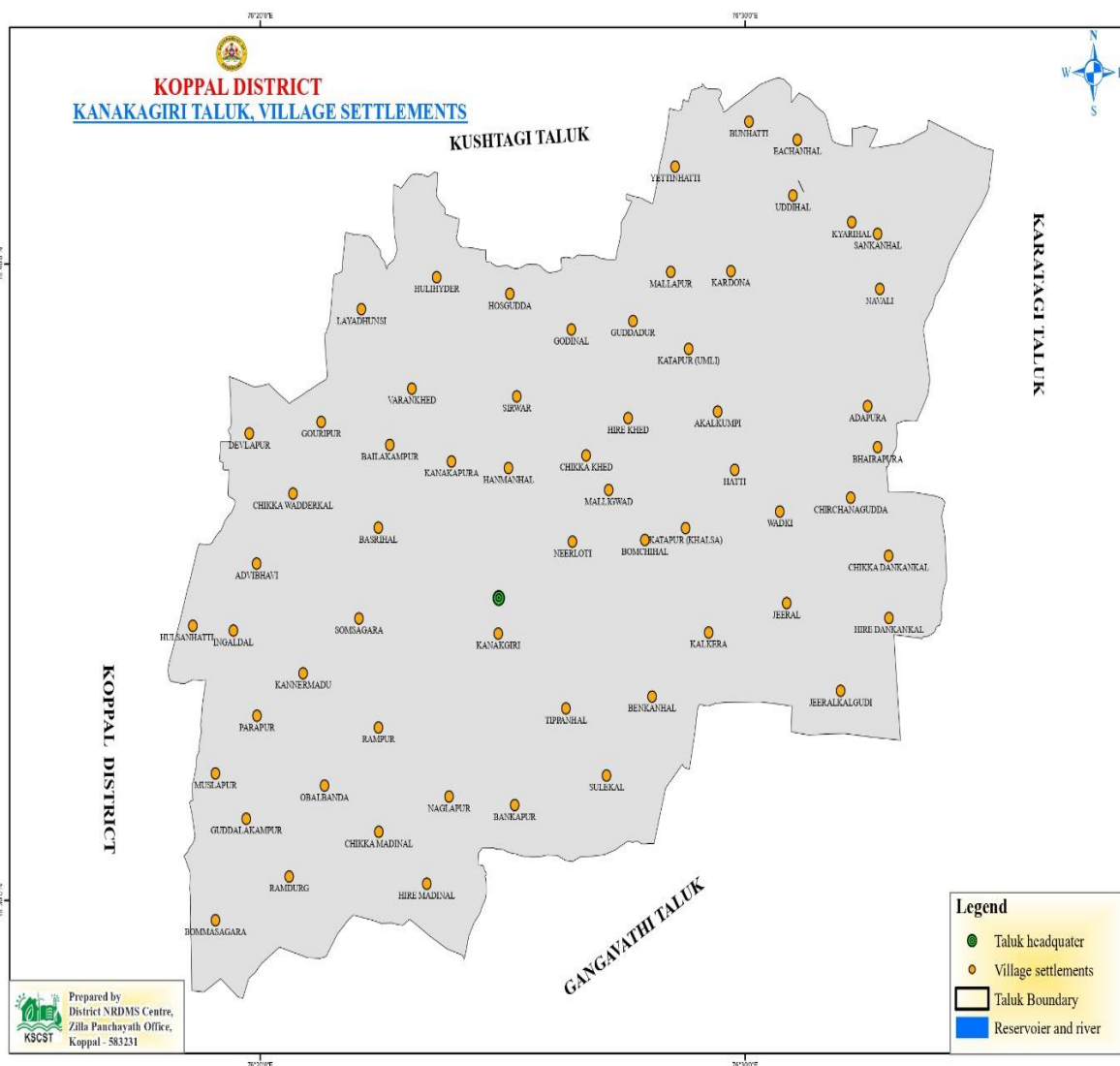
Title of work	Hanmanal GP micro watershed map
Department Name	Zillapanchayath office , koppal district.
Objectives	It is helpful to take scientific action to develop ground water in the area of micro water shed under Hanmanal Gram Panchayat of Kushtagi Taluk
Data Used	Shp.files
Data Process	Micro water, village boundary and drainage
Type of Data Provided	PDF Map was provided



14. Major Activities Carried Out during the period of April-July 2025:

Activity -1

Title of work	Village settlements amps
Department Name	karnataka university dharwad
Objectives	Spatial Distribution of Rural Settlements of Koppal District: A Geographical Analysis under my guidance and supervision and are to be submitted to the Department to fulfill the requirement to obtain their M. Sc Degree from the University for the year 2024-25.
Data Used	Shp.files
Data Process	Taluk boundary,Village boundary , Village settlements
Type of Data Provided	PDF Map was provided



15. Conclusion:

A) Summary of Activities Under Take.

During this period district NRDMS center, ZP Koppal provided various Maps, data and report to Zilla Panchayat Office, Deputy Commissioner Office and various line department, pertaining to implementation of various activities and assist district administration in disaster management.

B) Commitment to Improve NRDMS Activities.

District NRDMS Centre ZP Koppal is committed to provide quality and scientific assistance to department for implementation of developmental activities in district.

District NRDMS center is also committed to update the existing data base as up to date to enhance its performance and to assist the departments.

Centre is also committed to learn and update ourself to latest GEO SPATIAL technology and other software to improve our efficiency.