

# **NATURAL RESOURCES DATA MANAGEMENT SYSTEM (NRDMS)**

## **MONTHLY ACTIVITY REPORT**

**April - July 2025**

**Submitted by**

**District NRDMS Centre  
Zilla Panchayat,  
Yadgiri**



***Submitted to***

**Karnataka State Council of  
Science and Technology (KSCST)**

**Indian Institute of Science Campus,  
Bengaluru - 560012**

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## **1. Basic Information of Yadgiri District:**

**District Name:** Yadgiri

**Division:** Kalburgi

**District Establishment Year:** 2010

**Head quater:** Yadgiri City

**Current CPO:** Mr.Kumalaya

**Current CEO:** Dr.Lavish Ordia, IAS,

## **2. Background of District NRDMS Centre, Yadgiri:**

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.

The District NRDMS Centre was established in the year 2009-10 at Zilla Panchayat Office. District NRDMS Centre is been actively involved in providing Geospatial support to Zilla Panchayat office, District administration and other line departments of the districts for better planning and execution of development work.

## **3. Geographical Features:**

### **A. Location & Boundaries:**

Yadgir District is one of the 31th districts of Karnataka state in southern India. This district was carved out of Kalburgi district as the 30th district of Karnataka on 10 April 2010. It is also the administrative headquarters of Yadgir taluk, one of the six taluks of the district.

Co-ordinates : 16.77° N 77.13°E

Density : 10,500.36 /km<sup>2</sup> (27,196/sq mi)

Elevation: 389 Meters (1,276 FT)

### **B. History**

The town was under the Western Chalukyas in the ancient period. The name Yadgir (Yadgiri, historically known as *Yetagiri*) is derived from its early medieval rulers. Yadavs from the present-day Andhra Pradesh. A certain Mohammed Kasim was said to be a strong chieftain who ruled Yadgir for a long period after defeating the Yadavs, though there is no historical evidence to support it. Later, it came under the

reign of the Bahamani Sultanate, the Bijapur Sultanate and finally, the Nizams of Hyderabad. A major economic development of the city took place under Philip Meadows Taylor, the administrator of the principality of Shorapur.

C. **Overview**

Yadagiri, historically known as *Yetagir*, it is dotted with many historical monuments and has a majestic hill fort with three rounds of fortifications. There are three ancient temples, medieval mosques, tanks and wells on top of the hill. The barren landscape below offers a magnificent view. A tank, the Sanna Kere is located in the heart of the town.

D. **Divisions**

Presently, the district comprises Six taluks: Shahpur, Surpur, Yadgir, Gurmitkal, Wadgire, Hunsagi. The district has 16 hoblies, 122 Gram Panchayets, 745 villages (inhabited & uninhabited) and four municipalities.

E. **Geography**

The District is spread over an area of 5234.41 KM. Bhima River flows through Yadgir town. Still today people of yadagiri never faced water problem and also Krishna River Flows across the District.

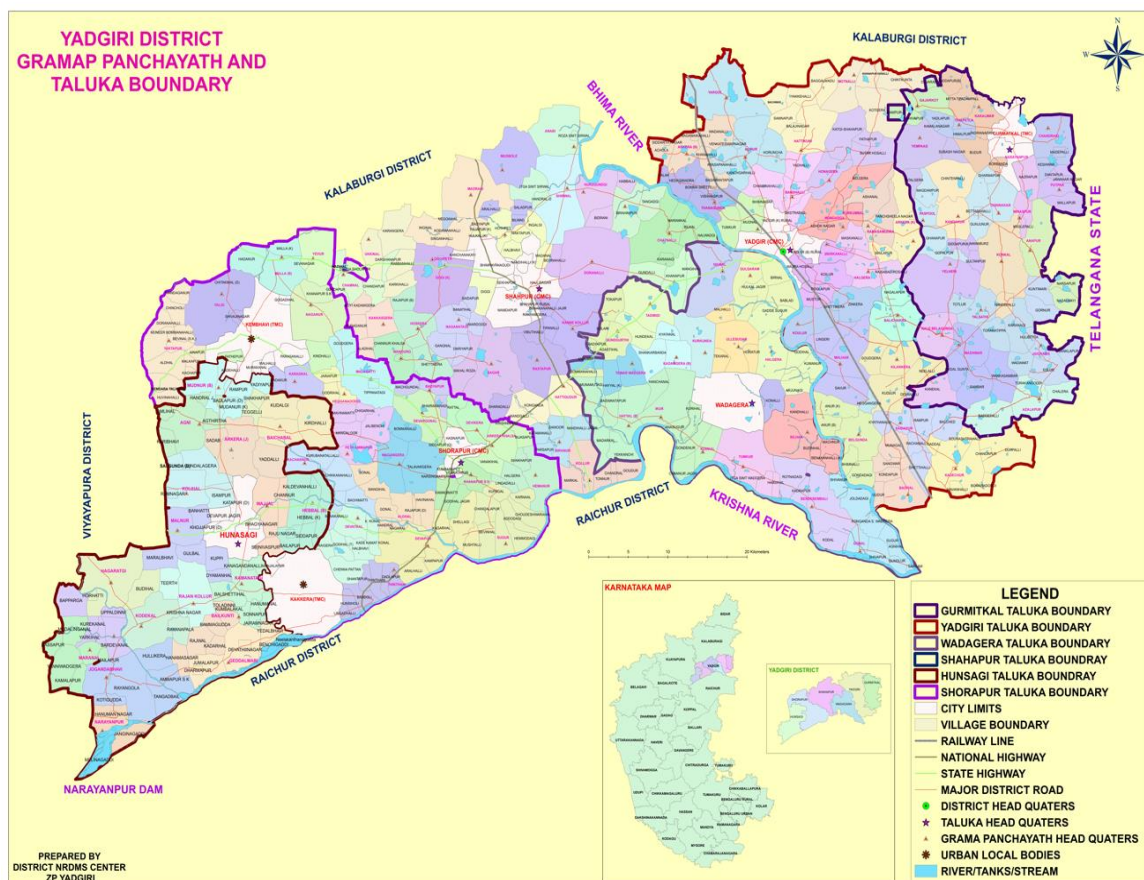
**Topography:**

Yadgir district's includes fertile plains in the Krishna and Bhima river basins, characterized by vast stretches of black cotton soil, and a location on the Deccan Plateau at approximately 693 meters above sea level. The region is also marked by hills, such as the one featuring the historic Yadgir fort, and the unique "Sleeping Buddha Hill" near Shahapur, which forms a prominent geographical landmark.

**Key Topographical Features**

- **Deccan Plateau Location:**  
The district is situated on the Deccan Plateau, a large, physiographic region known for its volcanic origin.
- **Fertile Plains:**  
Significant areas consist of fertile plains with black cotton soil, particularly in the river basins of the Krishna and Bhima, supporting agriculture.
- **River Systems:**

The rivers Krishna and Bhima flow through the district, contributing to irrigation and suitable conditions for human habitation and agriculture.



**Map 1:** Location Map of Yadgiri District.

- **Hills and Forts:**

The district features hills, notably the hill at Yadgir town, which is surmounted by a historic fort with a multi-tiered fortification. Another significant landmark is "Sleeping Buddha Hill," a unique rock formation near Shahapur that resembles the figure of a sleeping Buddha.

- **Elevated Landscape:**

The district is located at an elevation of approximately 693 meters (2,274 feet) above mean sea level.

## 2. Spatial & Non-Spatial Data:

### Status Code: Meaning

CC : Computerized.

ND :Not Digitized

NA :Not Procured

NR :Not Relevant

NF :Not Finalized

### SPATIAL DATABASE

Sector / Subsector	Scale	Source	Survey / Publn. Year	Area cover ed	Status Code	File For mat
<b>1. Natural Resources</b>						
<b><i>Land</i></b>						
1. Topography						
Contour Map	5 MTRS	KRSAC		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		MGD				
Structural features						
4. Mineral Resources		MGD				
5. Geomorphology	1:50,000	KRSAC		District	CC	. Shp
6. Land use	1:50,000	KRSAC		District	CC	. Shp
7. Waste Lands	1:50,000	KRSAC		District	CC	. Shp
8. Soils	1:50,000	KRSAC		District	CC	. Shp
9. Forest & Wildlife						
Forest type	1:50,000	KRSAC		District	CC	. Shp
Crown Density		NA				

Forest Category		NA				
Forest admn.		SOI				
Wild Life		NA				
<b>Water</b>						
1.Ground water						
Hydro Geology		MGD				
Hydro chemistry		ZP				
Ground water budget						
2.Surface water						
Drainage	1:50,000	SOI		District	CC	. Shp
Surface water bodies	1:50,000	SOI & KRSAC				
<b>3.Climate</b>						

Sector / Subsector	Scale	Source	Survey / Publn. Year	Area covered	Status Code	File Format
<b>2.Demography</b>						
<b>Population</b>						
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
<b>Literacy</b>						
Levels of education	1:50,000	SOI	2011 census	District	CC	. Shp
<b>Occupation</b>						
Village boundary	1:50,000	SOI		District	CC	. Shp
<b>Employment</b>						
District scenario						
Employment exchange						

<b><i>Assets &amp; Expenditure</i></b>						
<b><i>Migration</i></b>						
<b><i>Destitutes</i></b>						

<b>3.Socio Economy</b>						<b>File Forma t</b>
<b>Industry</b>	1:50,000	Industrial Departme nt		District	CC	. Shp
<b>Developmental activity</b>						
<b>4.Agro Economy</b>						
<b>Land Utilisation</b>						
Private Land						
Common property	1:50,000	KSRAC		District	CC	. Shp
<b>Land Ownership pattern</b>						
General scenario						
Farmer's holdings						
<b>Principal crops</b>						
<b>Irrigation</b>						
<i>Minor irrigation</i>						
Canals		DLR & SS				
Tube wells		DLR & SS				
Dug wells		DLR & SS				
Tanks	1:50,000	DLR & SS (KSRAC)		District	CC	. Shp
Lift irrigation		DLR & SS				
<i>Major irrigation</i>						
Reservoirs		DLR & SS				
Anicuts		DLR & SS				

<b>Agricultural implements</b>						
<b>Animal husbandry</b>		AHVS				
<b>Pisciculture</b>						
<b>Plantation</b>						

<b>Sector / Subsector</b>	<b>Scale</b>	<b>Source</b>	<b>Survey / Publ. Year</b>	<b>Area covered</b>	<b>Status Code</b>	<b>File Format</b>
<b>5.Infrastructure</b>						
<b>Communications</b>						
Post offices		DLR & SS				
Telecommunication		DLR & SS				
<b>Drinking water</b>		DLR & SS				
<b>Educational facilities</b>		DDPI				
<b>Electricity</b>		Land Records				
<b>Financial institutions</b>		DLR & SS				
<b>Markets</b>		DLR & SS				
<b>Health</b>		DHO				
<b>NGO's</b>		DLR & SS				
<b>Tourism</b>		KSTDC				
<b>Transport</b>	1:50,000	PWD/P RED		District	CC	. Shp
<b>6.Miscellaneous</b>						
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	SOI		District	CC	. Shp
Village boundary with settlement	1:50,000	SOI		District	CC	. Shp
Police station details	1:50,000	Home Deptment		District	CC	. Shp
Details on Assembly constituencies	1:50,000	Revenue Department		District	CC	. Shp
Gram Panchayhs & Zilla Panchayaths, its jurisdiction for all taluks	1:50,000	Revenue Department		District	CC	. Shp

## Non-Spatial Database

Sector / Subsector	Source	Survey / Publn. Year	Area covered	Status Code	File Format
<b>1. Natural Resources</b>					
<b><i>Land</i></b>					
1. Topography					
Contour				NR	
Slope				NR	
2. Geology – A					
Rock Features	MGD			CC	
Structural features				NR	
3. Geology – B					
Rock features				NR	
Structural features				NR	
4. Mineral Resources	MGD			NR	
5. Geomorphology				NR	
6. Land use				NR	
7. Waste Lands				NR	
8. Soils	NBSS & LUP			NR	
9. Forest & Wildlife					
Forest type				NR	
Crown Density				NR	
Forest Category				NR	
Forest admn.				NR	
Wild Life				NR	
<b><i>Water</i></b>					
Ground water					
Hydro Geology	MGD			NR	
Hydro chemistry	CGWB			NR	

Ground water budget	MGD			NR	
Surface water					
Drainage					
Surface water bodies				NR	
<b>Climate</b>	IMD			NR	

<b>2. Demography</b>					<b>File Format</b>
<b>Population</b>					
Tehsil boundary	DLR & SS		District	CC	xls
District boundary			District	CC	xls
Current popln. distbn.	DES				
<b>Literacy</b>					<b>File Format</b>
Levels of education					NA
<b>Occupation</b>					
Village boundary	DES		District	CC	xls
<b>Employment</b>					
District scenatio	EO			NA	
Employment exchange	EO			NA	
<b>Assets &amp; Expenditure</b>					
<b>Migration</b>					
<b>Destitutes</b>					

<b>3. Socio Economy</b>					<b>File Format</b>
<b>Industry</b>	DIC		District	CC	xls
<b>Developmental activity</b>	DIC				

4. Agro Economy					File Format
<b>Land Utilisation</b>					
Private Land	DSO		VILLAGE		
Common property	DSO				
<b>Land Ownership pattern</b>					
General scenario	DSO			NA	
Farmer's holdings	Rev. Dept			NA	
<b>Principal crops</b>	JDA		Taluk		
<b>Irrigation</b>					
<i>Minor irrigation</i>					
Canals	CADA			NA	
Tube wells	DSO			NA	
Dug wells	DSO			NA	
Tanks	MIC/ ZPE			NA	
Lift irrigation	MID				
<i>Major irrigation</i>					
Reservoirs	CE (N)			NA	
Anicuts	CE (N)			NA	
<b>Agricultural implements</b>	Ag Census				
<b>Animal husbandry</b>	AH&VS			NA	
<b>Pisciculture</b>	Fisheries			NA	
<b>Plantation</b>				NA	
<b>Horticulture</b>	HD			NA	
<b>Sericulture</b>	SD			NA	

Sector / Subsector	Source	Survey / Publn. Year	Area covered	Status Code	File Format
<b>5. Infrastructure</b>					

<b>Communications</b>					
Post offices	SSPO/ DES		Village		
Telecommunication	TDM / DES				
<b>Drinking water</b>	ZPE			NA	
<b>Educational facilities</b>	DDPI			NA	
<b>Electricity</b>	Census			NA	
<b>Financial institutions</b>	LEAD bank				
<b>Markets</b>	FACS				
<b>Health</b>	DHO		District	CC	xls
<b>NGO's</b>	DRS				
<b>Tourism</b>	KSTDC				
<b>Transport</b>					
Roads	PWD		District	CC	xls
Rail network	ZPED		District	CC	xls
Air transport/HELIPAD	PWD				
Vehicle census	RTO				
Inland & coastal waterways					
<b>Veterinary services</b>					
Veterinary facilities	AHVS		District	CC	xls
Other veterinary serv.	AHVS		District	CC	xls
Incidence of diseases	AHVS				
Anganwadi	D W&C				

<b>Sector / Subsector</b>	<b>Source</b>	<b>Survey / Publn. Year</b>	<b>Area covered</b>	<b>Status Code</b>	<b>File Format</b>
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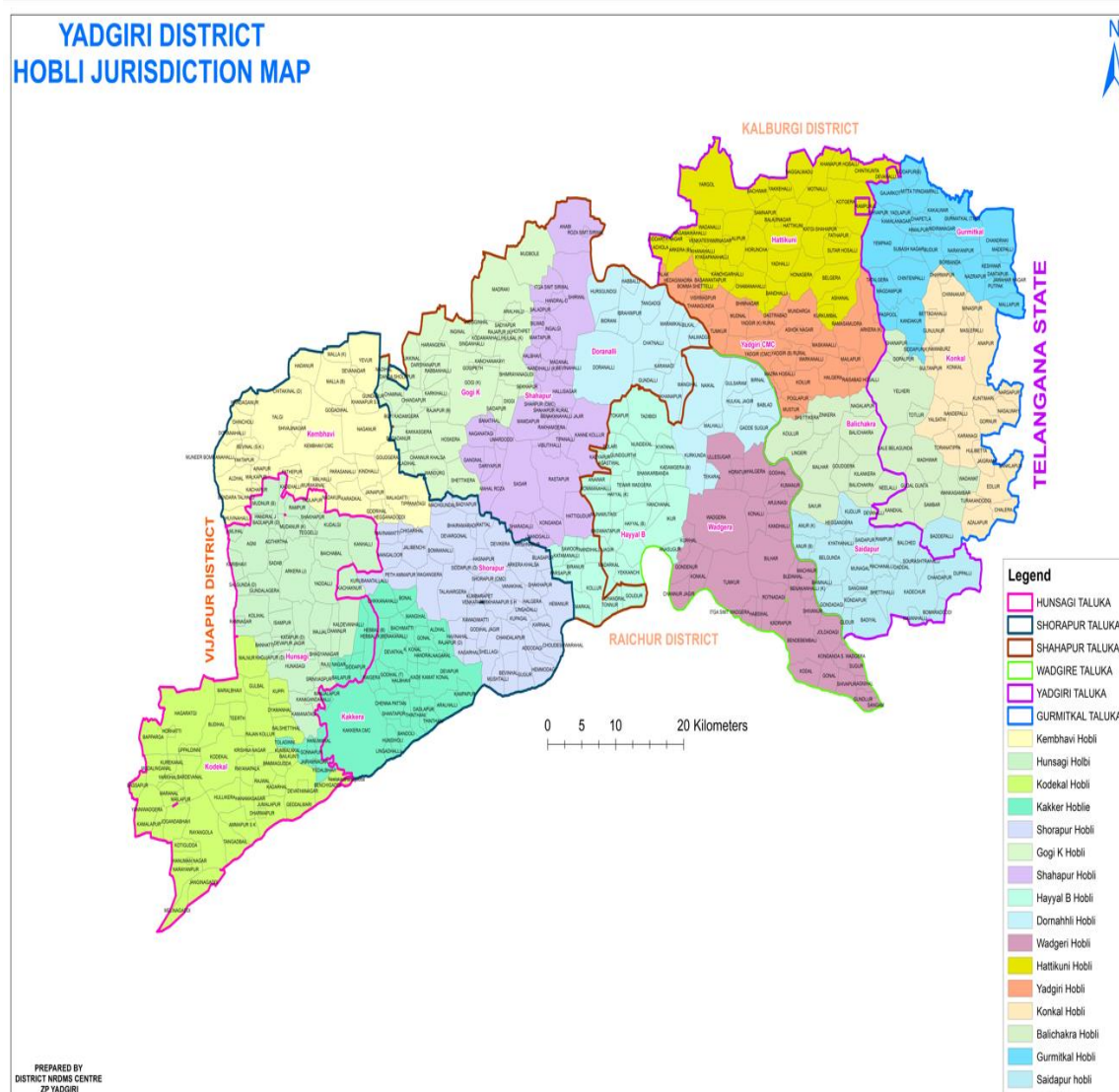
<b>6. Miscellaneous</b>					
Administration	DC office		District	CC	xls
Dt. & Subdivsns.	DC office		District	CC	xls
Dt., with tehsils	DC office		District	CC	xls
Dt., with panchayat	DC office		District	CC	xls
Tq., with census vil.	DC office		District	CC	xls
Prices & wages					
Environment					

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

Map-1

Activity -1

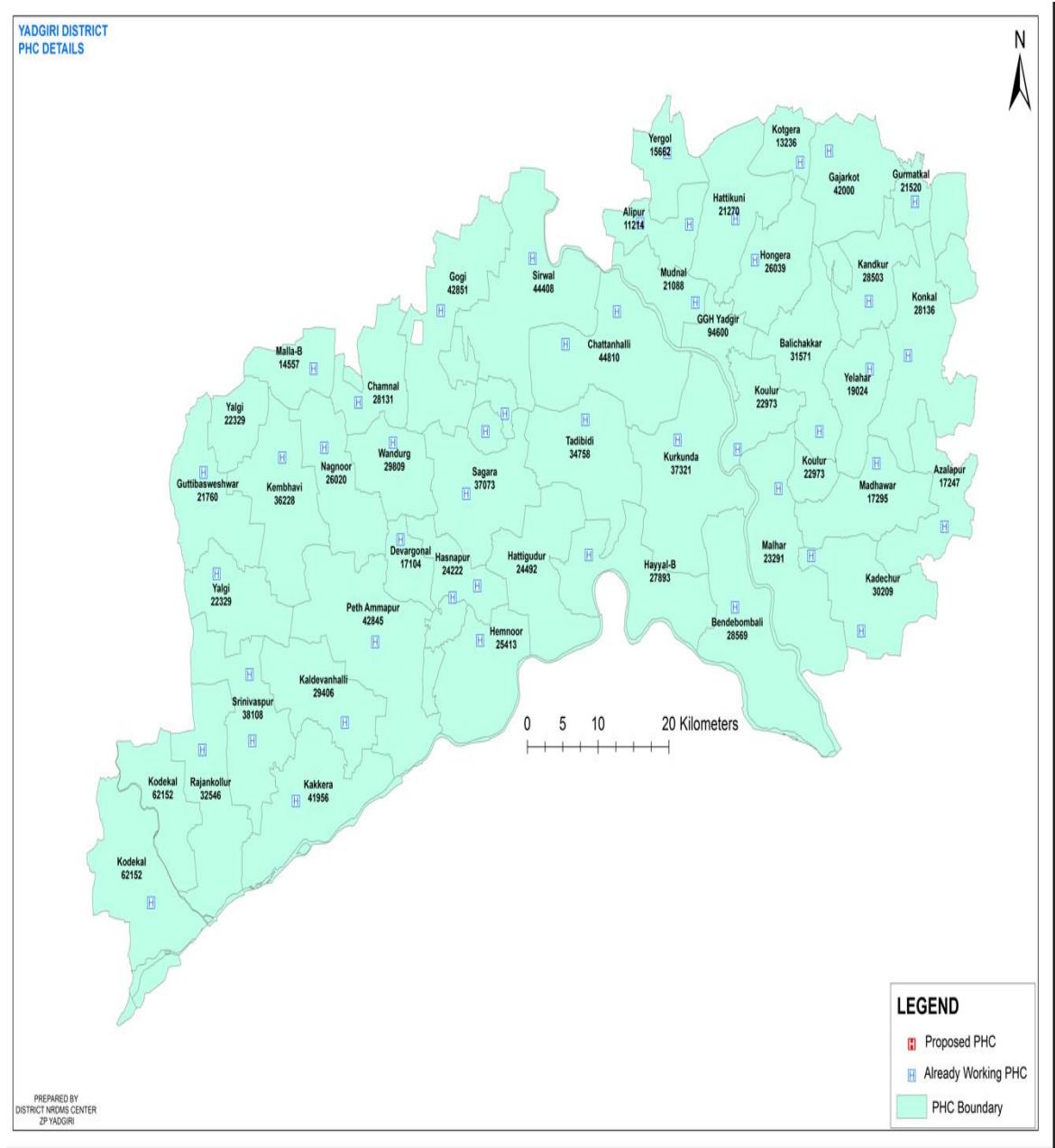
<b>Title of work</b>	Block Wise Hobile Jurisdiction for talukas
<b>Department Name</b>	DC Office
<b>Objectives</b>	Provide information to District Administration to get the details of villages form one hobile and it comes under different talukas.
<b>Data Used</b>	Taluka wise and Hobile Wise datat
<b>Type of Data Provided</b>	Provided Pdf Map



Map-2

Activity -2

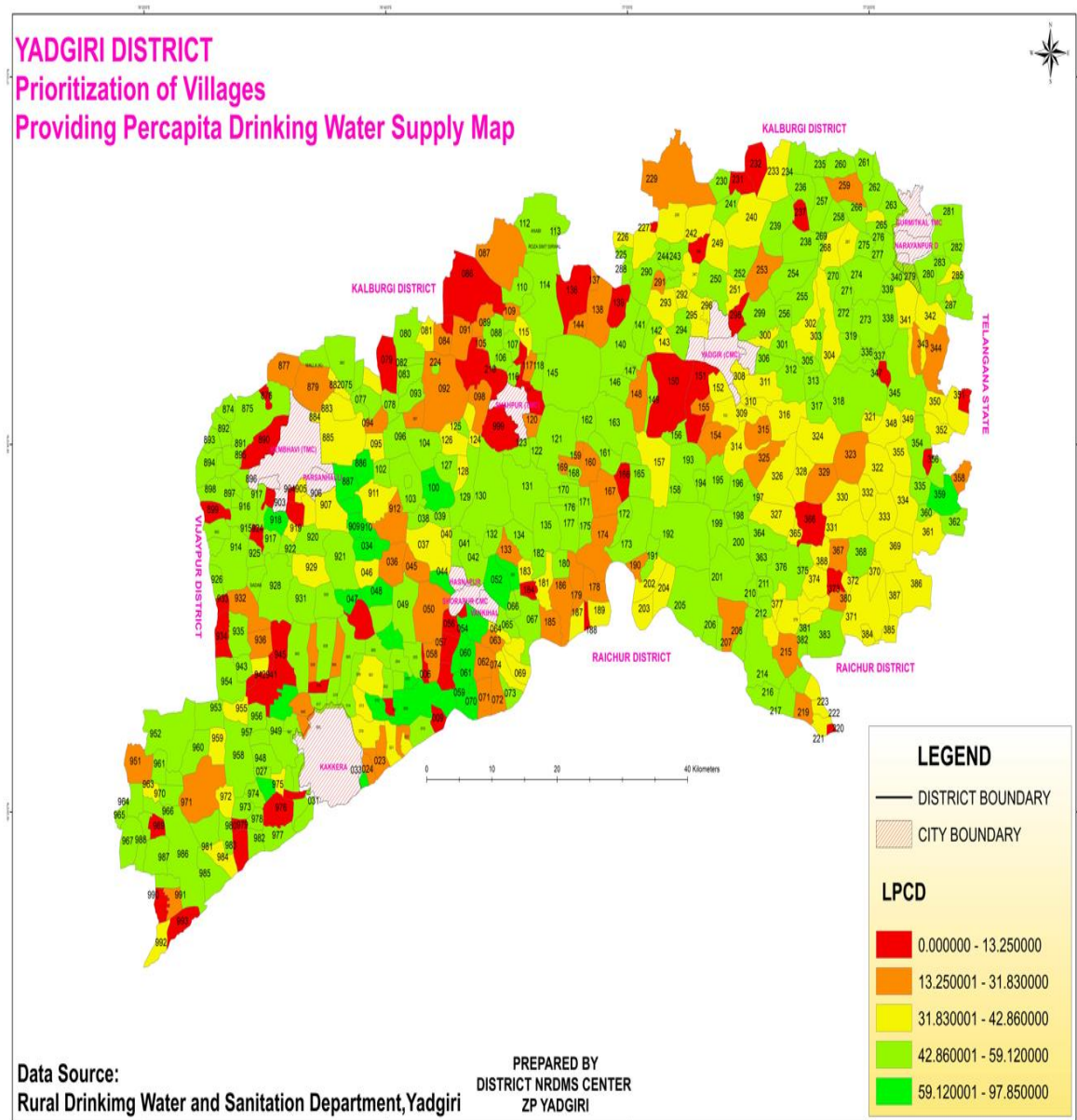
Title of work	Preparation of PHC Wise Population in District
Department Name	Health Department,
Objectives	To identify areas with higher and permissible limit of population and to give proposal to GOK
Data Used	Village Layer,PHC Level Dtata
Type of Data Provided	Provided Pdf Maps



## Map-3

### Activity -3

<b>Title of work</b>	Identification and Village with Low and High-Water facilities
<b>Department Name</b>	Zilla Panchayat , Yadgiri
<b>Objectives</b>	It will help to District Administrative to Provide water Problems and to give permeant solutions for such villages
<b>Data Used</b>	Taluk Boundary, Village Location, Tank Location.
<b>Type of Data Provided</b>	Provided Pdf Maps

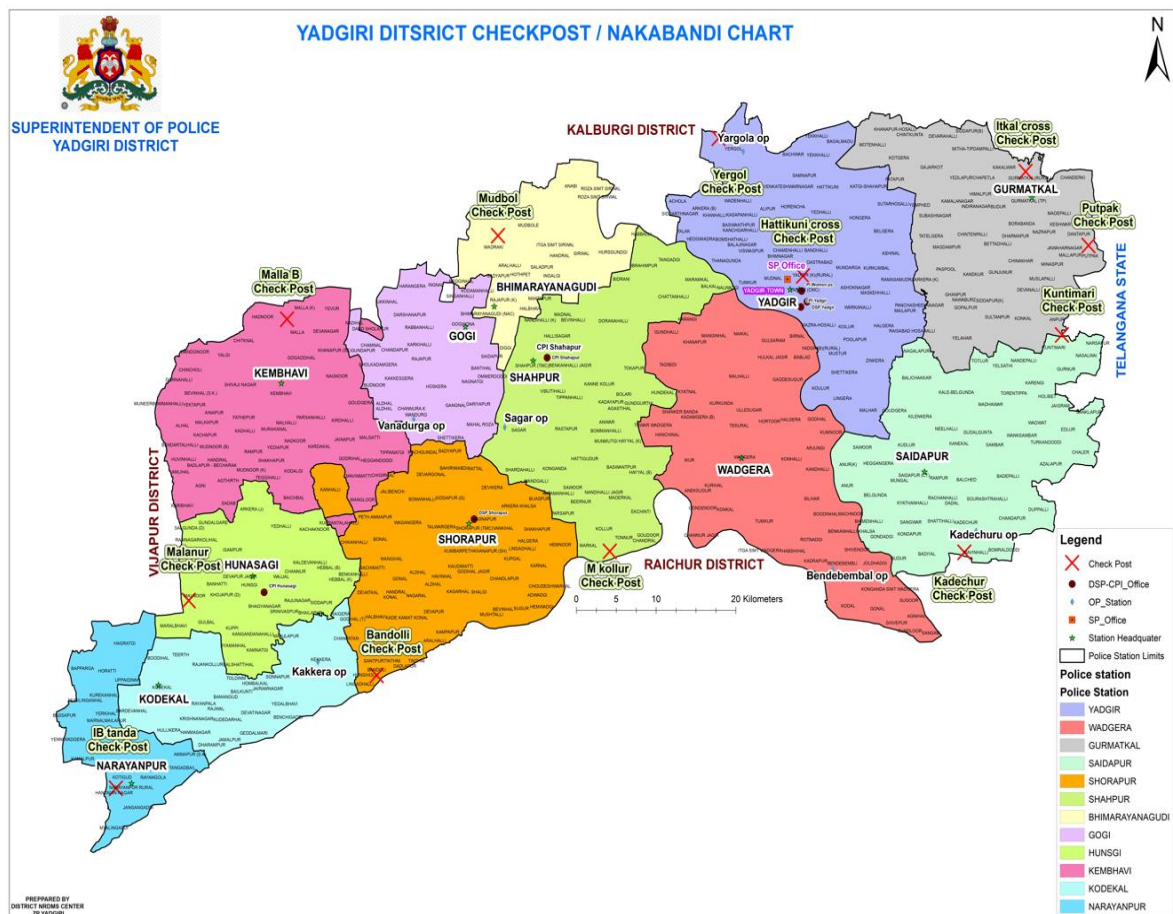


### Map-3

### Activity -3

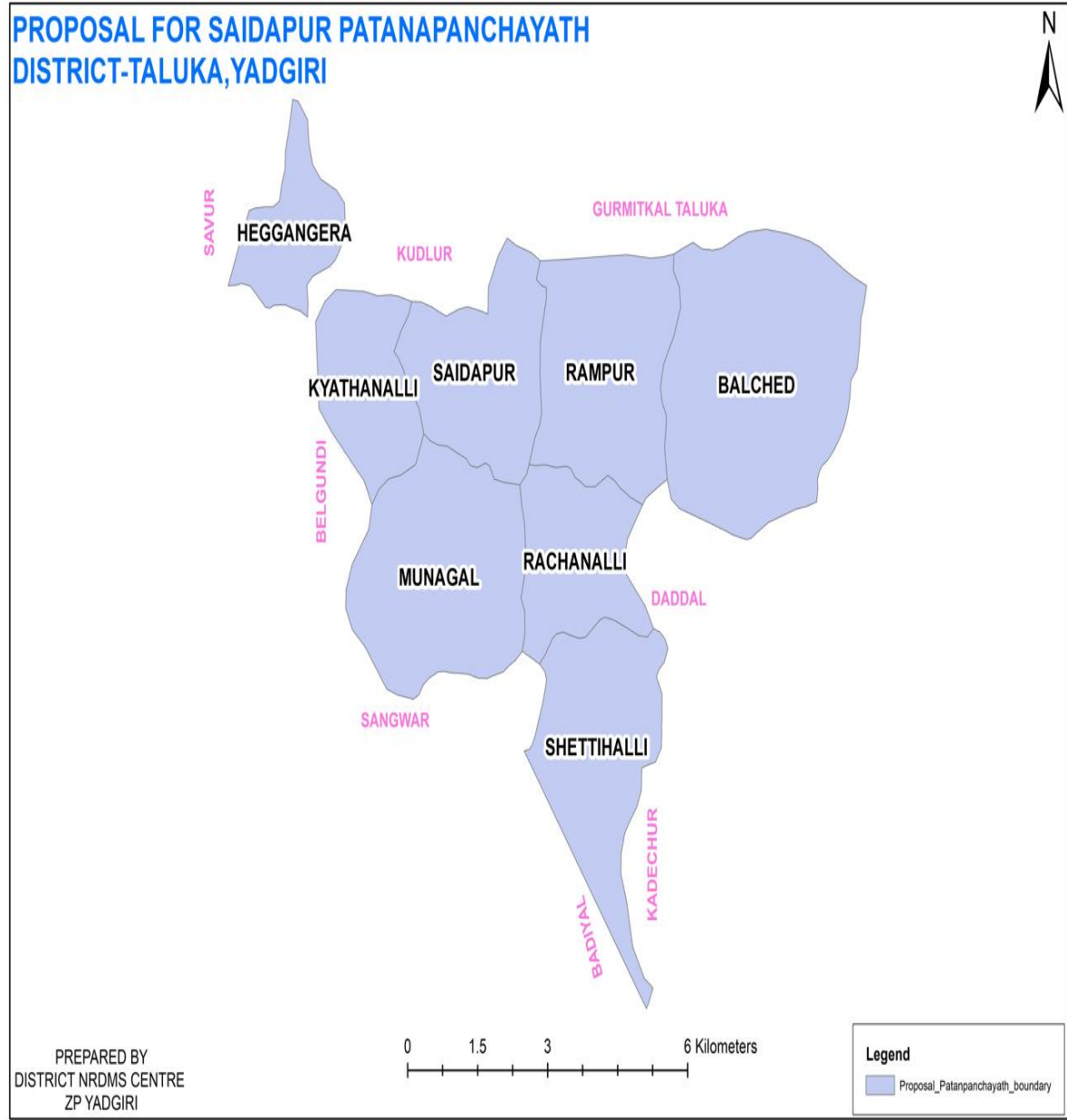
<b>Title of work</b>	Police Station Jurisdiction and Beat Mapping and check post of Yadgiri District
<b>Department Name</b>	Police Department,Yadgiri
<b>Objectives</b>	Jurisdictional boundaries prevent confusion and overlap between law enforcement agencies. This allows for the organized deployment of officers across an area.It ensures that each police station is responsible for a specific, well-defined area, Helps in improve police operations, allocate resources effectively, and enhance community relations. It improves public safety.
<b>Data Used</b>	Village boundary, Village Location, important assets locations like water body road network railway network etc...
<b>Type of Data Provided</b>	Provided Pdf Maps

### Map-3



Activity -4

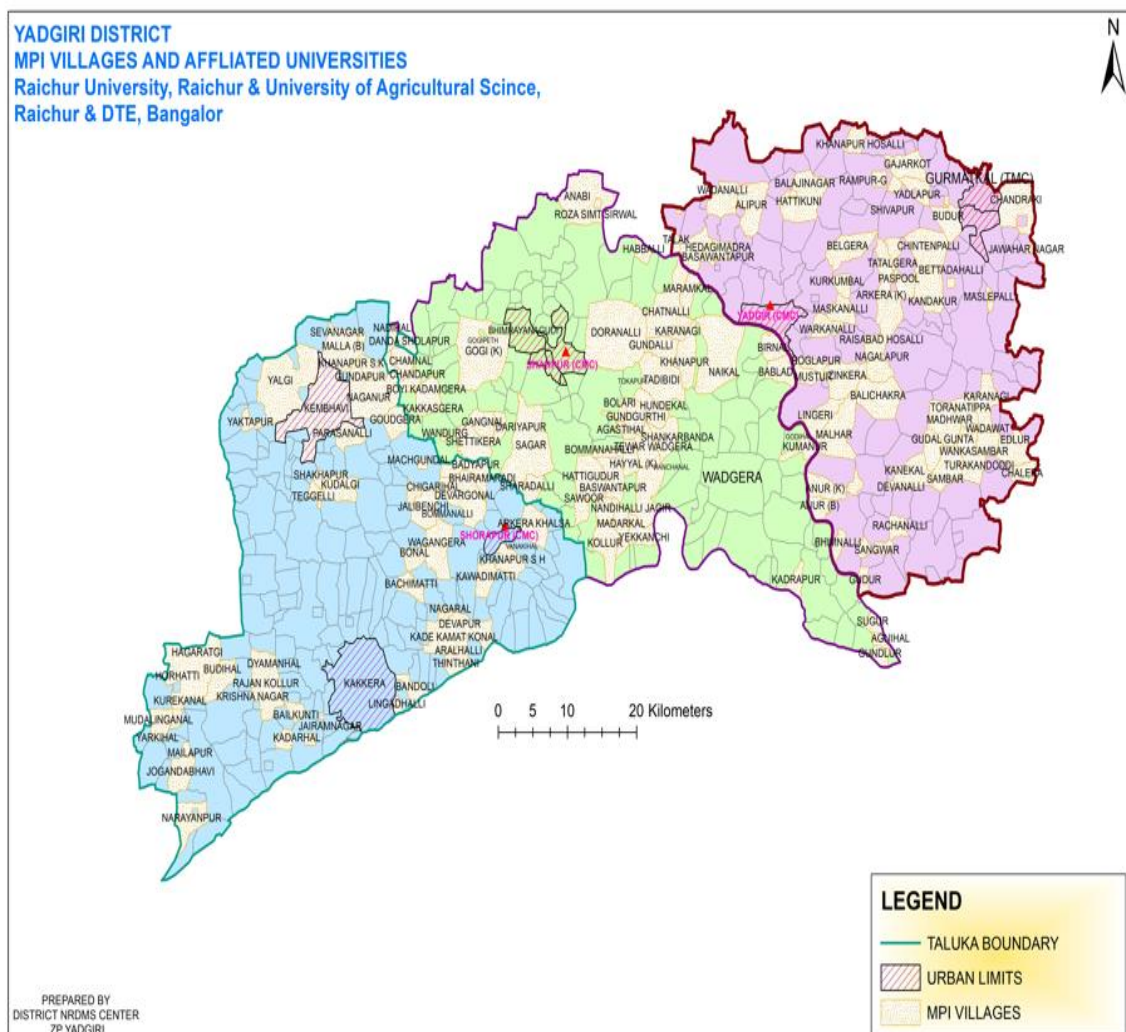
<b>Title of work</b>	Mapping of Saidapur GP to Upgrade to Patana Panchayath
<b>Department Name</b>	Zilla Panchayat , Yadgiri
<b>Objectives</b>	It helps to Give the proposal to GOK too make the Saidapur Village to Urban Local Bodies
<b>Data Used</b>	Village Boundary and , Village Location
<b>Type of Data Provided</b>	Provided Pdf Maps



## Map-5

### Activity -5

<b>Title of work</b>	Mapping of MPI Villages in Yadgiri District Yadgiri district
<b>Department Name</b>	Zilla Panchayat , Yadgiri(PRED)
<b>Objectives</b>	MPI village" is a village that has been identified as having a high score on the Multidimensional Poverty Index (MPI), meaning its residents experience multiple and overlapping deprivations. The MPI is a comprehensive measure that goes beyond income to assess poverty based on various indicators related to health, education, and living standards
<b>Data Used</b>	District Boundary, Taluk Boundary, Village Boundary,
<b>Type of Data Provided</b>	Provided Pdf Maps

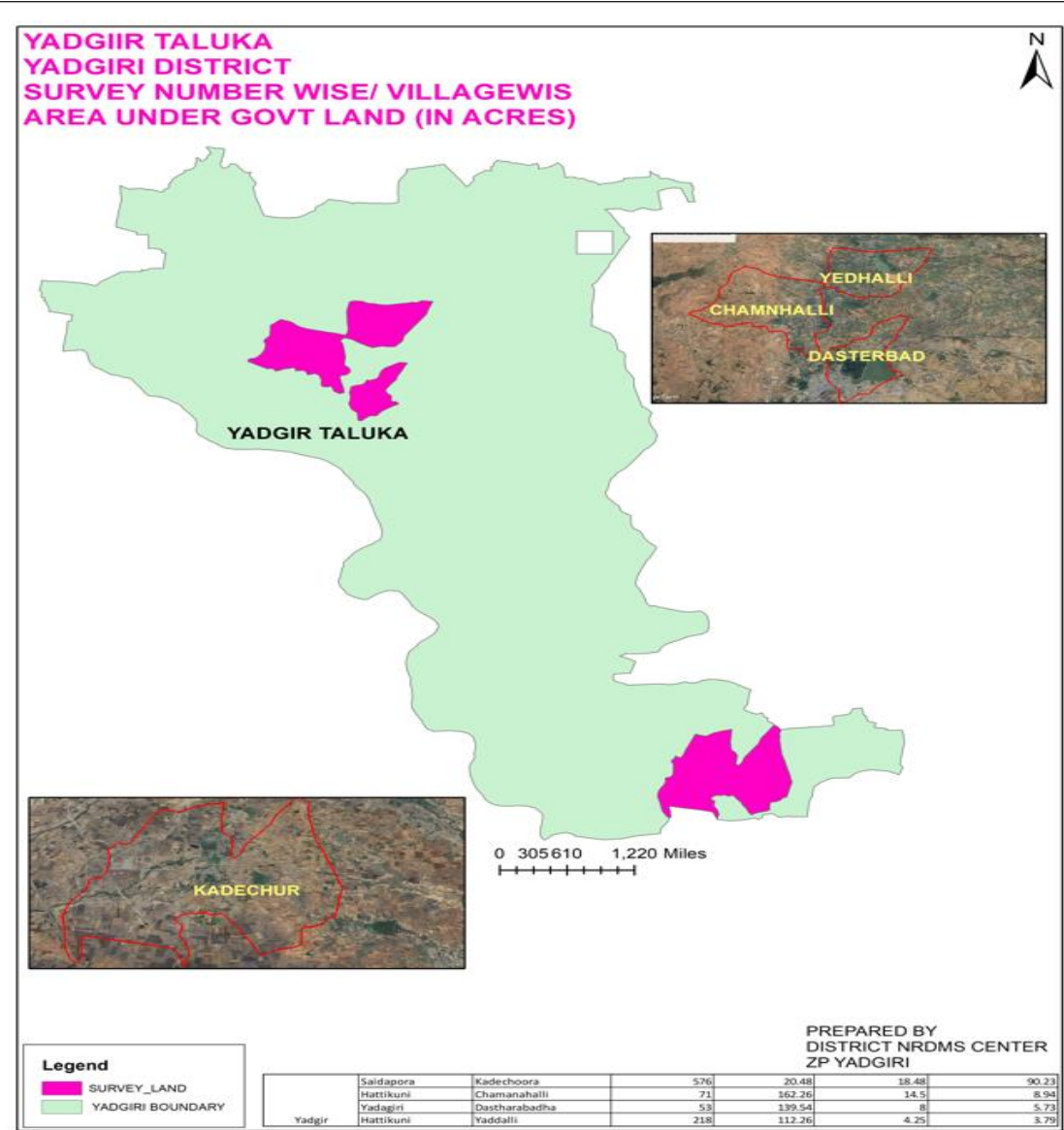


Sl No	District	Taluk	Gp Name	village	MPI of Village	Total Houshe-Holds	House holds Below MPI
1	Yadgir	Yadgir	ARKERA(B)	Wadenhalli	0.54	319	172
2	Yadgir	Yadgir	ARKERA(B)	Baswanthpur	0.52	111	57
3	Yadgir	Yadgir	KOULUR	Mustur	0.51	314	159
4	Yadgir	Yadgir	MALHAR	Lingera	0.51	201	102
5	Yadgir	Yadgir	WORKEN-HALLI	Poglapur	0.51	203	103
6	Yadgir	Yadgir	YELSATHI	Wadwat	0.5	144	72
7	Yadgir	Yadgir	MUNDERGA	Belgera	0.48	577	274
8	Yadgir	Yadgir	MUNDERGA	Kurkumbal	0.48	36	17
9	Yadgir	Yadgir	PASPOOL	Paspool	0.48	311	148
10	Yadgir	Yadgir	PASPOOL	Tatelgera	0.48	213	101
11	Yadgir	Yadgir	YELSATHI	Wadwat	0.47	386.1912	183
12	Yadgir	Yadgir	AZALAPUR	Chaler	0.46	153	71
13	Yadgir	Yadgir	JAIGRAM	Edlur	0.46	277	128
14	Yadgir	Yadgir	YELSATHI	Karengi	0.46	390	178
15	Yadgir	Yadgir	THANGUNDA	Hedgimadr a	0.45	358	163
16	Yadgir	Yadgir	WORKENHALLI	Workenhal li	0.45	367	167
17	Yadgir	Yadgir	ARKERA(B)	Siddarthnagar	0.44	86	38
18	Yadgir	Yadgir	CHAPETLA	Indiranagar	0.44	80	35

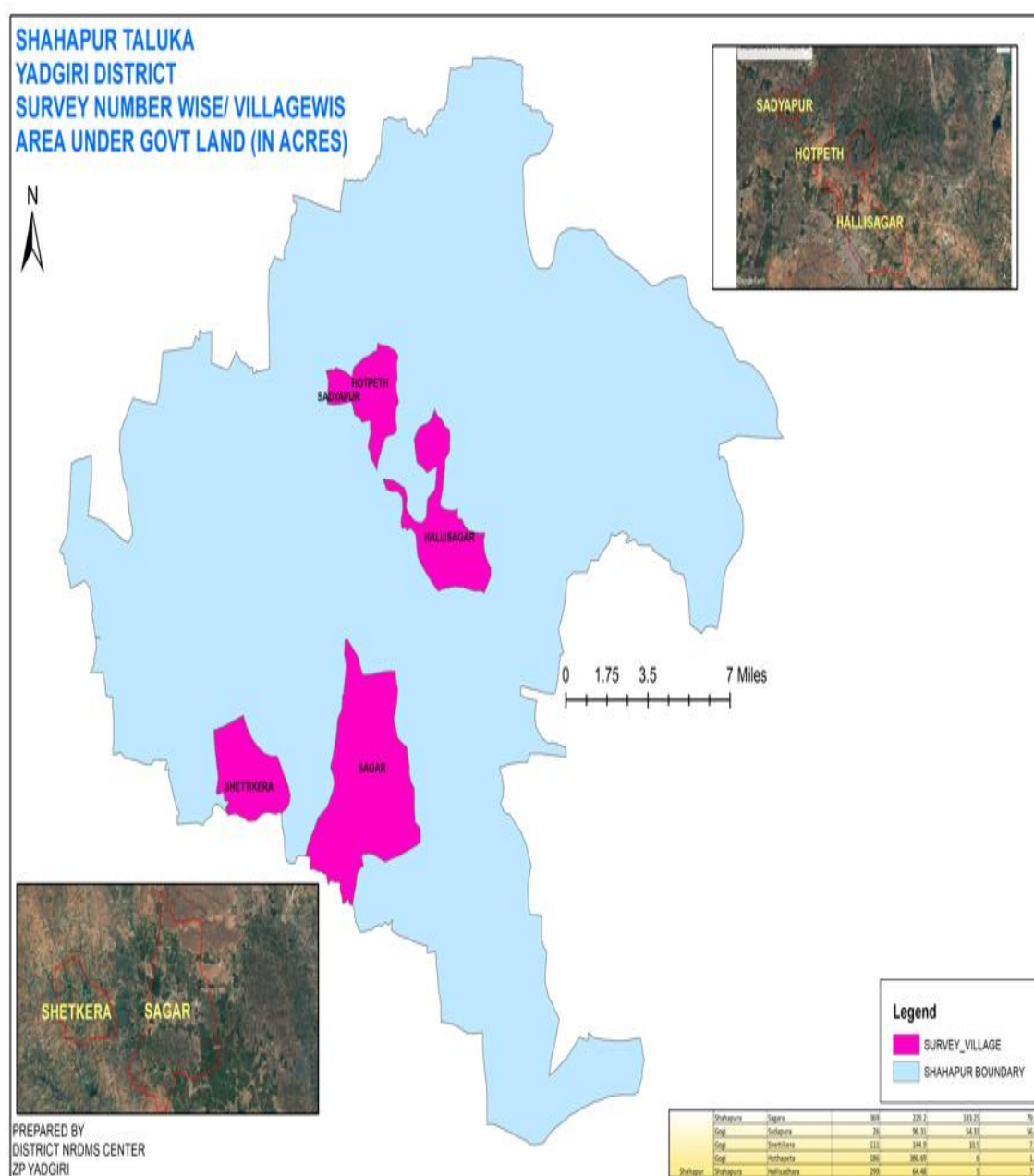
Map-6

Activity -6

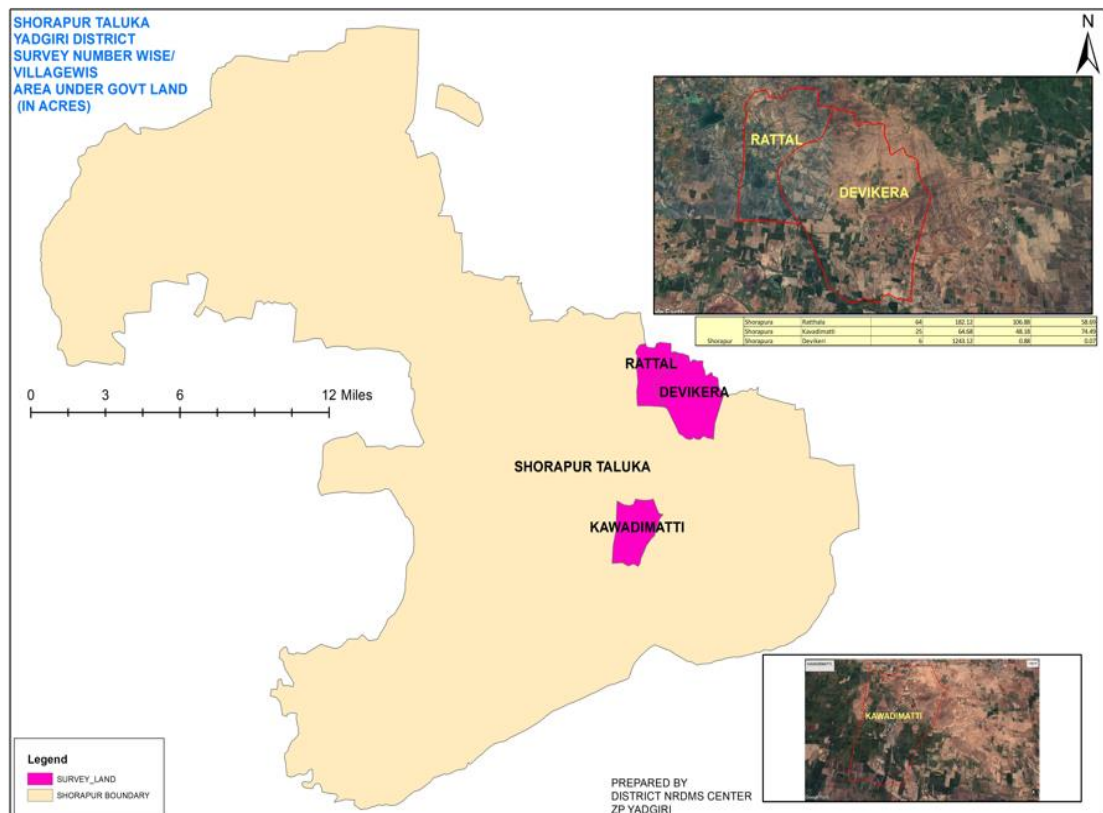
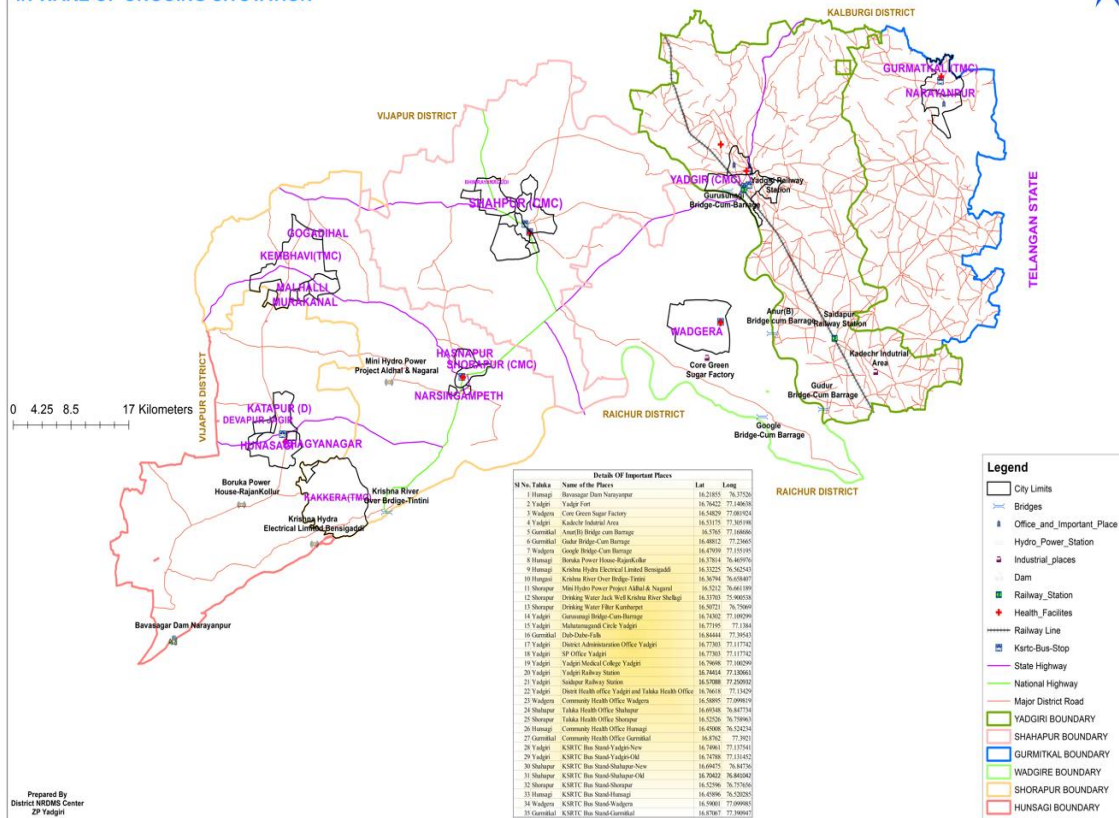
<b>Title of work</b>	Mapping of Area Under Government Land
<b>Department Name</b>	Revenue Department
<b>Objectives</b>	It Identifies and analyze areas were is Government land and further development of Solid and liquid waste separation unit .
<b>Data Used</b>	Taluk Boundary
<b>Type of Data Provided</b>	Provided Pdf Maps



<b>Title of work</b>	Mapping of Important Places of Yadgiri District
<b>Department Name</b>	Revenue Department
<b>Objectives</b>	It Identifies the Important places of Yadgiri district in Emergency (War) Timings waste separation unit .
<b>Data Used</b>	Taluk Boundary, Location of Places
<b>Type of Data Provided</b>	Provided Pdf Maps



# **YADGIRI DISTRICT PREPAREDNESS MEASURE TAKEN IN WAKE OF ONGOING SITUATION**



### **Varius Maps Provided to Departments**

<b>SL No.</b>	<b>Details of Maps</b>	<b>Map Provided to Department</b>
<b>1</b>	Map showing the Burwell Location to RWS Department	RDWSS Department
<b>2</b>	Floods Maps to DC office	DC Yadgiri
<b>3</b>	Proposal of New Patana Panchayath	DC Yadgiri
<b>4</b>	Various SDG Gola Map	TO CPO
<b>5</b>	Toursim Department Map	To AD Tourism Department
<b>6</b>	Varius Beat and Jursdictin Maps	To Police Deaprtment

### **5. Training Programmes Attended:**

1. Attended 1 day workshop conducted by EMPRI on 22/04/2025 at Yadgiri regarding Climate Change.
2. Attended 1 day training program conducted by MGNREGA & KSRSAC on 09/05/2025 at KSRSAC, Bengaluru regarding KGIS Portal for Road Side Plantation.

### **6. Training Imparted to Line Department:**

1. Provided training to PDO's for Capturing correct GPS locations of Works.
2. Provided training to Forest department staff regarding KGIS Portal for Road Side Plantation.

### **7. Science Outreach Activities:**

No Science Outreach Activities were conducted during this period.

### **8. Conclusion:**

#### **A) Summary of Activities Under Take.**

During this period district NRDMS Center, ZP Yadgiri provided various Maps, data and report to Zilla Panchayat Office, Police Department and other line department, pertaining to implementation of various activities.

#### **B) Commitment to Improve NRDMS Activities.**

District NRDMS Centre ZP Yadgiri 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 our self to latest GEO SPATIAL technology .

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