

NATURAL RESOURCES DATA MANAGEMENT SYSTEM (NRDMS)

MONTHLY ACTIVITY REPORT August – November 2025

Submitted by
District NRDMS Centre
Zilla Panchayat, Bidar



Submitted to
**Karnataka State Council for
Science and Technology (KSCST)**
Indian Institute of Science Campus,
Bengaluru – 560012

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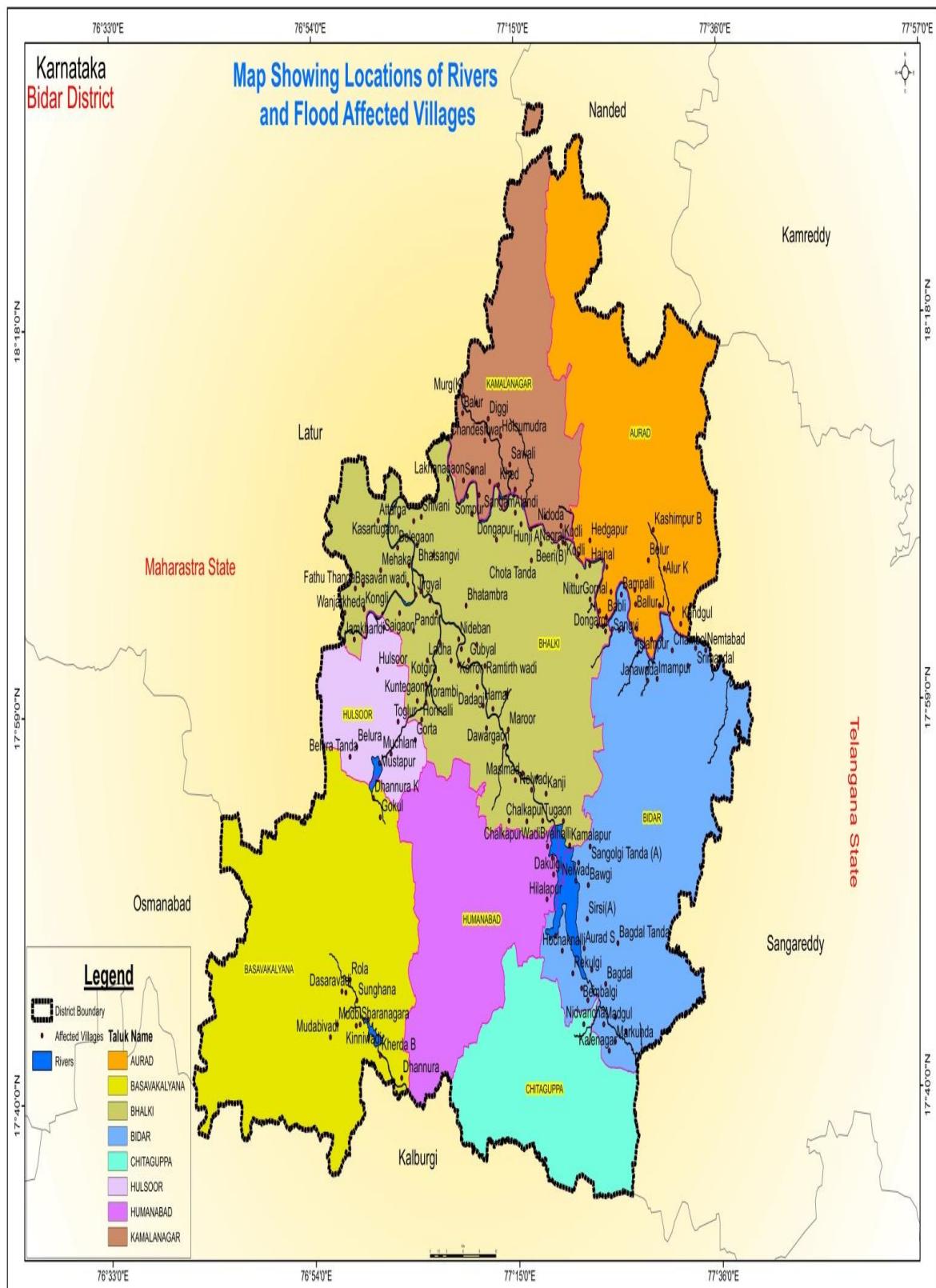
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1. Major Activities Carried Out during the period of August-November 2025:

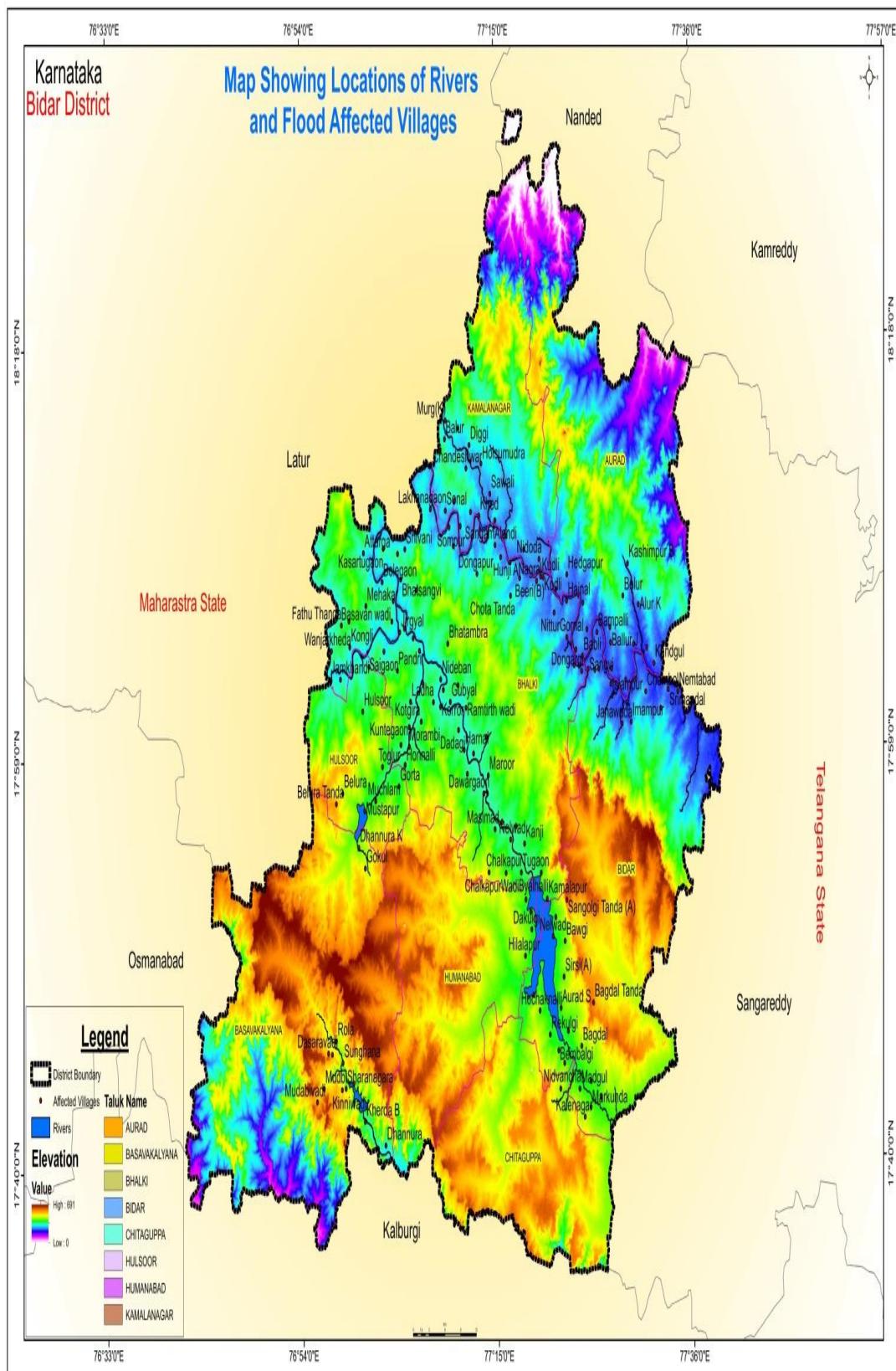
Activity -1

Title of work	Flood Affected Habitation/Village Map
Department Name	Deputy Commissioner Office.
Objectives	To identify and delineate areas, To understand, manage, and reduce flood risk. And quantify the extent and severity of flood damage within The village boundary. To assist in prioritizing areas for rehabilitation
Data Used	Flood Affected Village Location,DEM Data, River/Water Body Data
Data Process	Using ArcGIS software a rivers and major water body are Overplayed on Digital Elevation Model(DEM),probable affected villages are marked using different radius across the river side for 5km and 10 km the 5km Affected villages and 10 km radius affected villages are shown in Map.
Type of Data Provided	Provided Pdf Map along with Flood Affected Villages Name

Map 1: Showing Flood Affected Villages



Map 2: Showing Flood Affected Villages Along with DEM



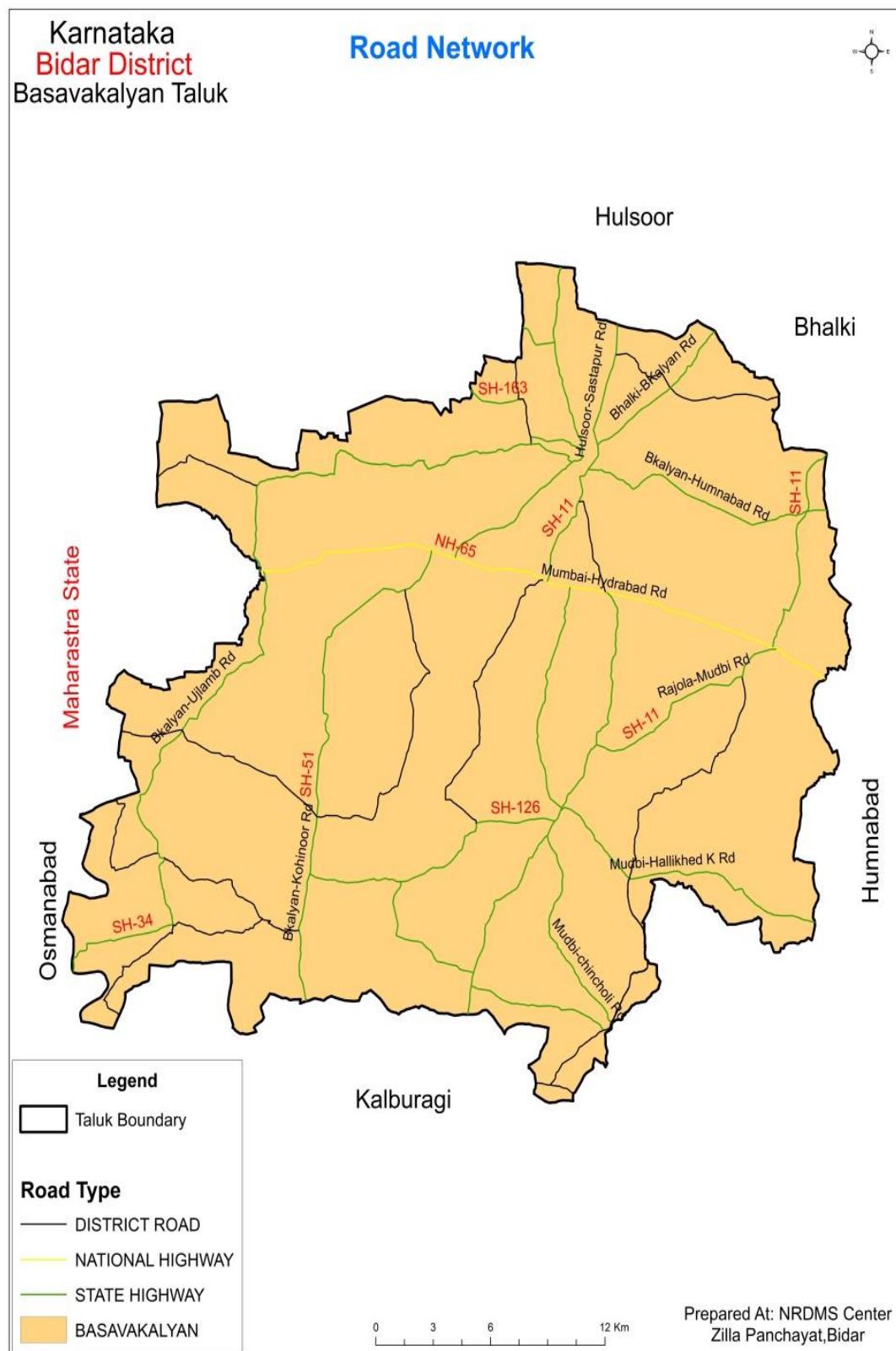
Activity -2

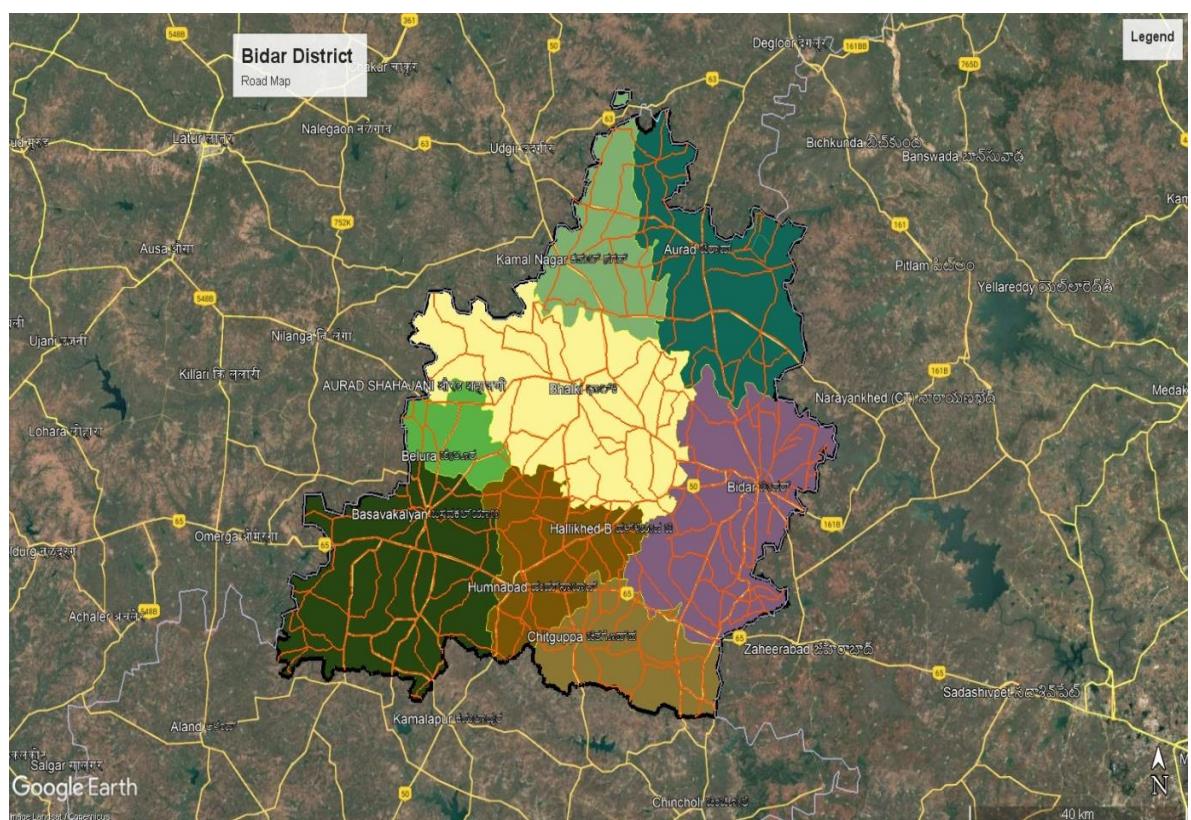
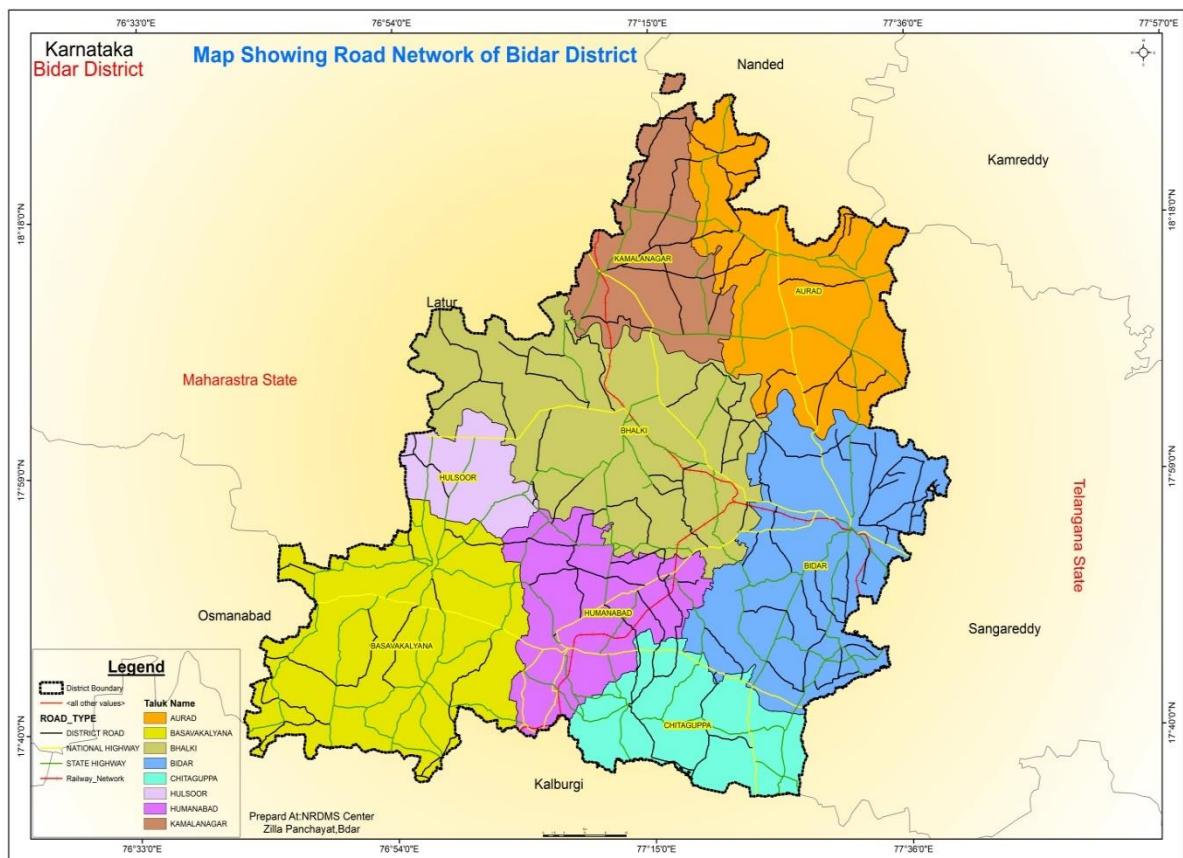
Title of work	Mapping of Bidar district Upgraded Road network from VR to DR,DR to SH
Department Name	Zilla Panchayat , Bidar(PRED)
Objectives	Updated maps provide accurate, real-time data that is critical for managing movement and developing infrastructure in a constantly changing world, This helps in identifying gaps and design new projects, such as highways, bridges, and public transit extensions and helps in building a data base in Centers.it helps in planning gap roads to DR,SH,NH
Data Used	District Boundary, Taluk Boundary, Village Location, Location and Boundary Road Network Google Satellite Imagery.
Type of Data Provided	Provided Pdf Maps

Table-Showing Road wise Length, Road Nomenclature

ROAD_TYPE	L_in_KM	ROAD_NA	ref	name
DISTRICT ROAD	7.56637945673761			
DISTRICT ROAD	7.16329901237056			
DISTRICT ROAD	3.53558922193876			
DISTRICT ROAD	25.470905215753			
STATE HIGHWAY	15.2013256657773	SH-198	SH-198	Hallikhed-Udbal Rd
DISTRICT ROAD	8.31705575728528			
DISTRICT ROAD	0.685465406249976			
DISTRICT ROAD	9.44424620445341			
DISTRICT ROAD	3.41127100143624			
DISTRICT ROAD	10.369119499834			
NATIONAL HIGHWA	80.308656832017	Pune - Mac	NH-85	Mumbai-Hyderabad
NATIONAL HIGHWA	81.8705257187946	Bidar-Hum	NH-50	Bidar-Kalburgi Rd
NATIONAL HIGHWA	58.93895096959023	Bidar-Udgir	NH-50	Bidar-Kamalnagar
STATE HIGHWAY	66.2859201316376		SH-122	Bidar-Wadgaon-Chi
NATIONAL HIGHWA	32.2211826564874	Bhalki-Sah	NH-762K	Bhalki-Latur Rd
STATE HIGHWAY	20.886891477891		SH-11	Bkalyan-Kohinoor
STATE HIGHWAY	10.3798398301414		SH-126	Mudbi-chinchalki Rd
STATE HIGHWAY	16.776762978963		SH-76	Hudgi-Chitguppa-K
STATE HIGHWAY	18.6494128657146		SH-76	Jileshingi-Bhalki Rd
STATE HIGHWAY	11.1285795111463		SH-11	Hulsoor-Sastapur R
STATE HIGHWAY	39.4161081470207		SH-123	Kamalnagar-Walla
STATE HIGHWAY	27.3390805107654		SH-34	Bkalyan-Ujliamb Rd
STATE HIGHWAY	11.0140047809787		SH-75	
STATE HIGHWAY	29.1061671248527		SH-126	
STATE HIGHWAY	4.78887993399332		SH-163	
STATE HIGHWAY	11.8371333868847		SH-4	Bidar- Hydrabaddn R
STATE HIGHWAY	4.53770893912168		SH	
STATE HIGHWAY	14.2761556772329			
NATIONAL HIGHWA	40.7392810699475	Bidar-Aura	NH-151A	Bidar-Aurad-Wanm
DISTRICT ROAD	11.9359247664418			
STATE HIGHWAY	2.8730442643428		SH	Bhatmbara-Kamaln
STATE HIGHWAY	31.1393471264996		SH-34	Bhalki-Aurad Rd
DISTRICT ROAD	6.10097695839006			
STATE HIGHWAY	1.24242727882834			SH-76
DISTRICT ROAD	9.49076890728852			
DISTRICT ROAD	6.28546695840813			
DISTRICT ROAD	7.297604279797778			
STATE HIGHWAY	3.412434450051498			
STATE HIGHWAY	12.66559767801188			Bkalyan-Humnabad
DISTRICT ROAD	6.82773095968314			Mudbi-Hallikhed K
STATE HIGHWAY	15.6924840955216			
DISTRICT ROAD	4.17649334944343			
DISTRICT ROAD	7.46552151664071			
STATE HIGHWAY	1.06709190267956		SH-11	Humnabad-Ghodw
DISTRICT ROAD	6.67708676620597			
STATE HIGHWAY	24.3074706117969			

Map 3 : Showing Bidar District Upgraded Road Network

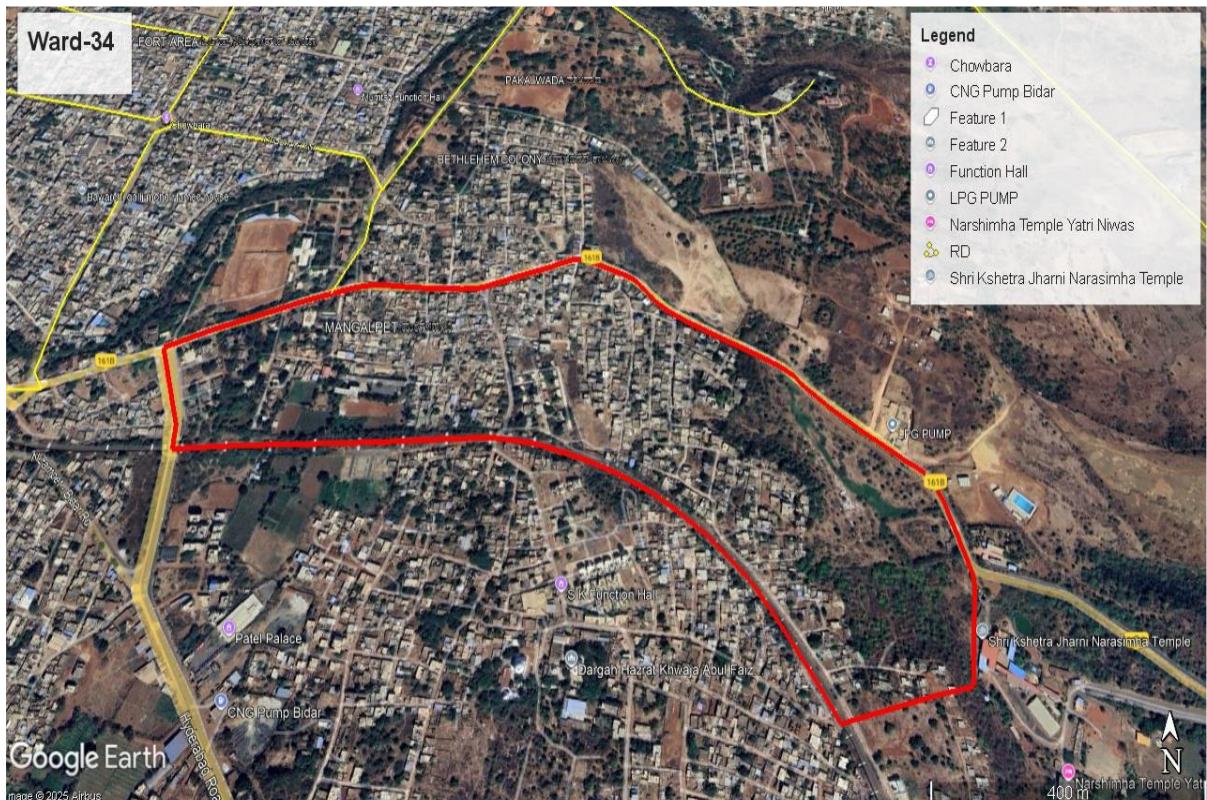


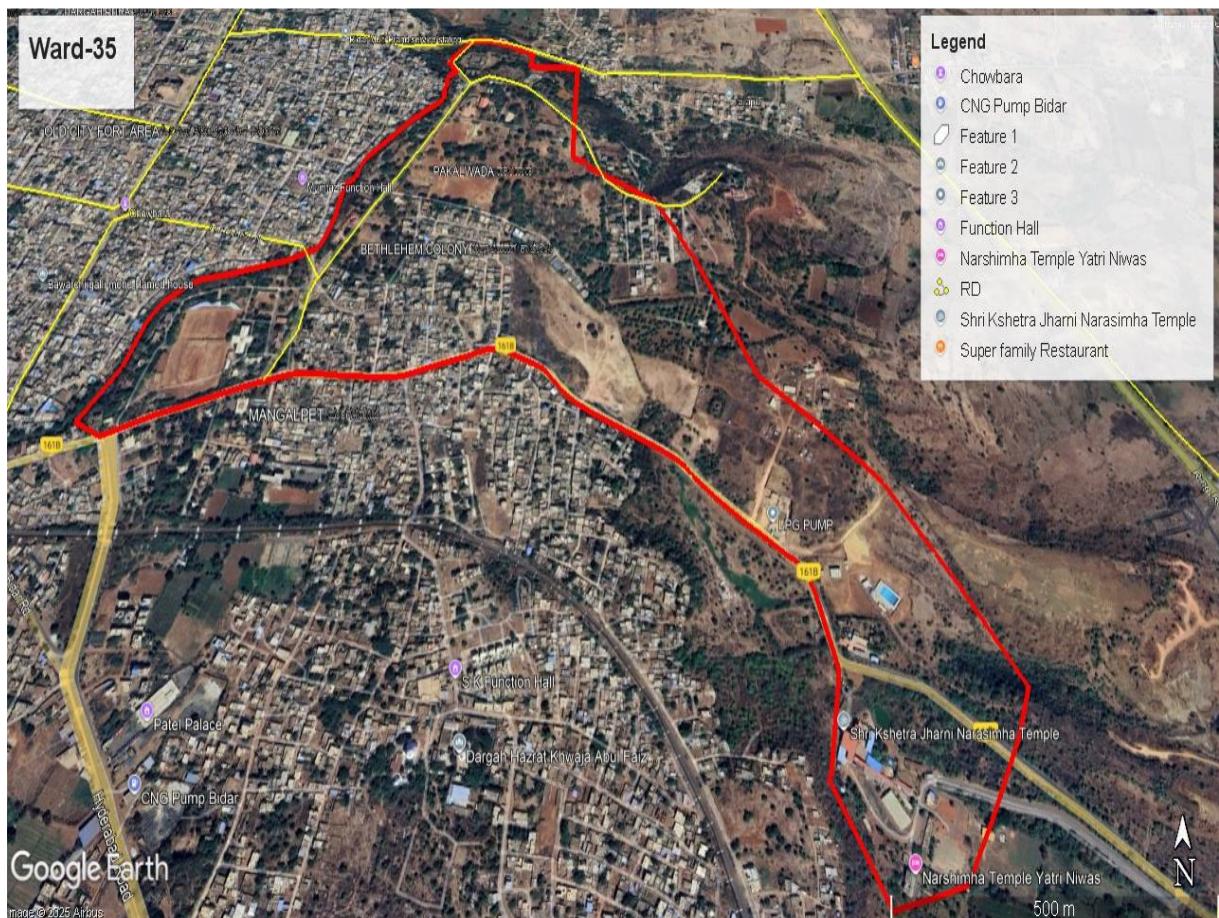


Activity -3

Title of work	Ward boundary digitation and Road asset Mapping
Department Name	Urban development
Objectives	To create accurate, geo-referenced ward boundaries for effective local governance and planning. And to maintain a consistent spatial database that can be updated as administrative boundaries change, facilitate monitoring, reporting, and mapping of ward-level development indicators. Accurate inventory of all road-related assets (roads, signs, streetlights)
Data Used	Google Satellite Imagery, existing ward boundary
Data Process	Obtain official maps showing ward boundaries Established 3-GCP Provided Coordinates Projection Digitation ward boundaries using Created vector later after digitation applied for topological correction Created a data using attribute table Digitized boundaries on Google satellite image
Type of Data Provided	PDF Map

Map 4: Showing Ward Boundary an Road Network Mapping of Corporation Limit

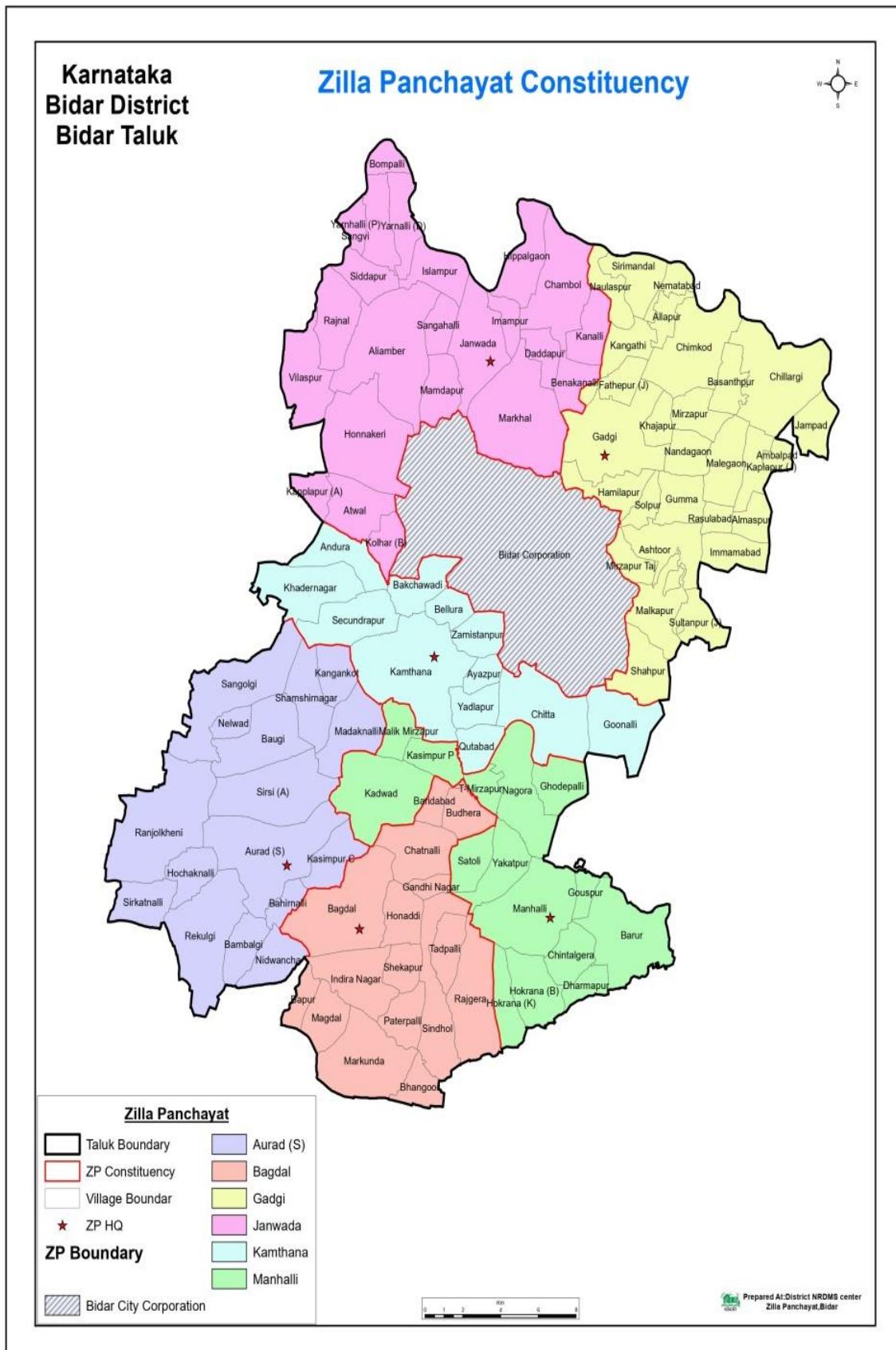




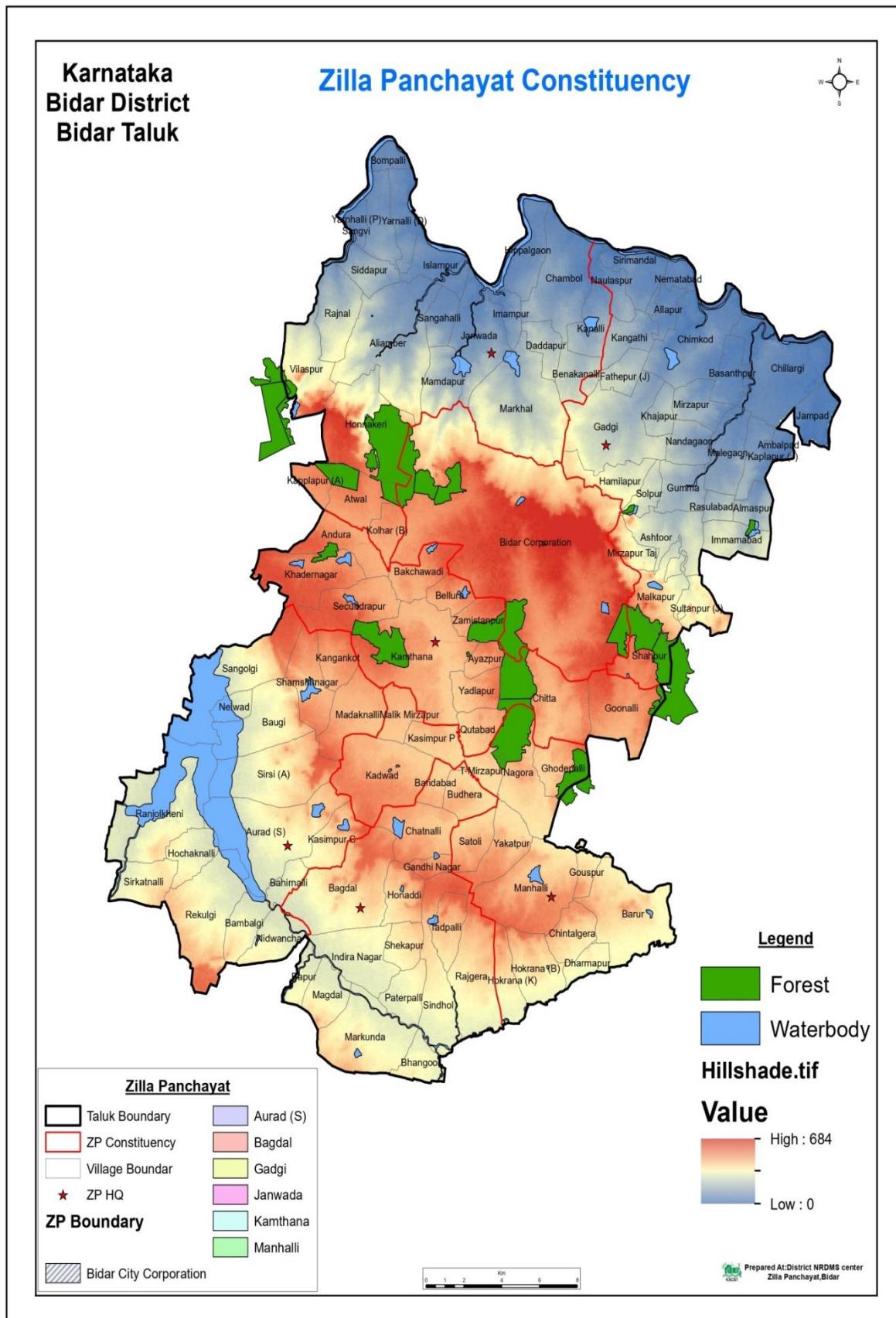
Activity -4

Title of work	TP/ZP Boundary delimitation
Department Name	DC office Election Branch
Objectives	To clearly identify the jurisdiction of each Taluka Panchayat (TP) and Zilla Panchayat (ZP), avoiding overlap and to Facilitate smooth planning, implementation, and monitoring of Elections and to ensure fair representation of population and areas in local bodies, especially for elections and reservation of seats
Data Used	Village Boundary, Taluk Boundary, Water Body, Contour Data DEM Data, Forest Cover.
Data Process	Excel data provided by department was Joined into Attribute Data and prepare map.
Type of Data Provided	PDF Maps

Map 5: Showing TP-ZP Delimitation Based on Demography



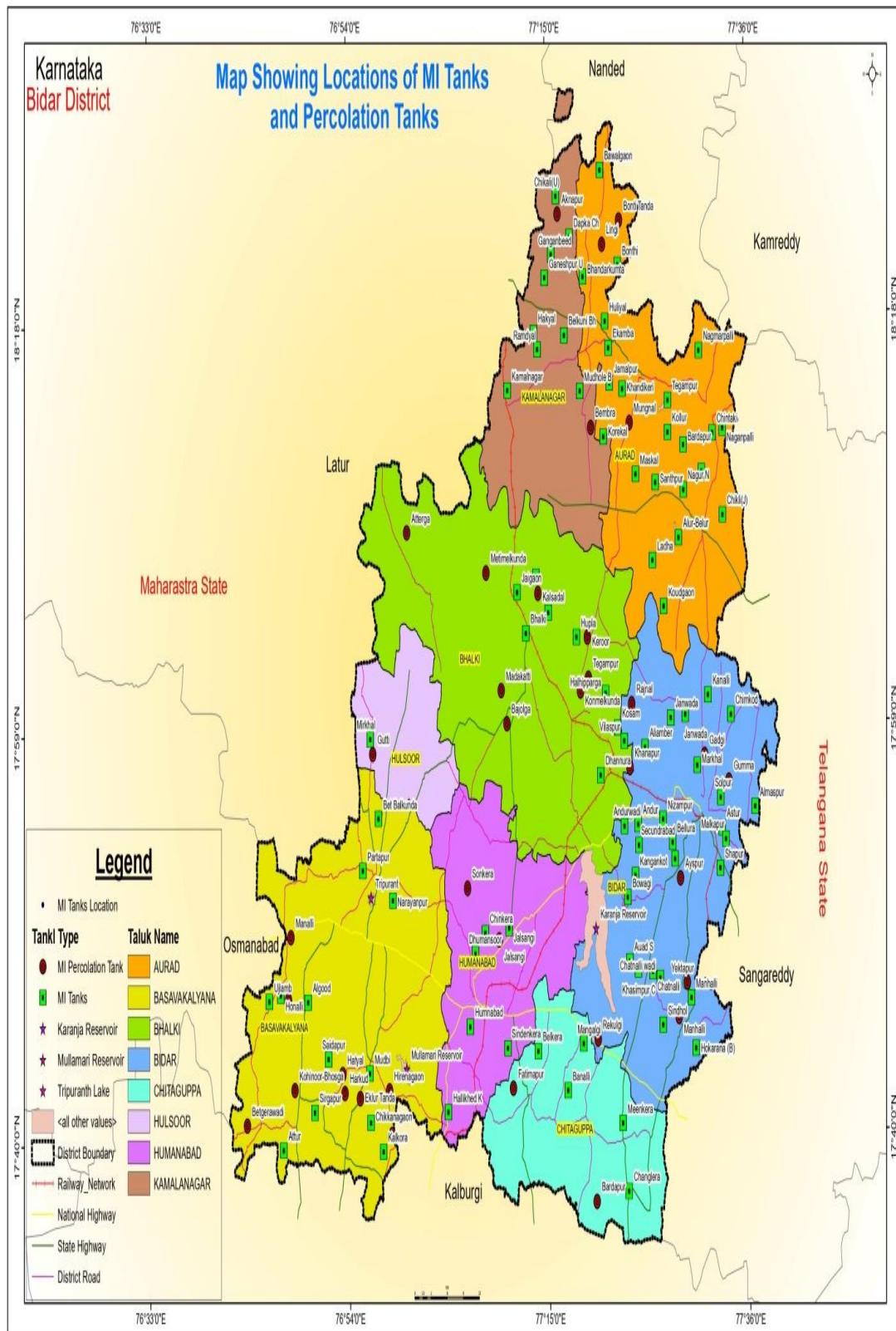
Map 6: Showing TP-ZP Delimitation Based on Demography and Elevation



Activity -5

Title of work	MI Tanks and Percolation Tank Mapping
Department Name	CEO ZP Bidar
Objectives	To identify, locate Tanks and to assess water storage capacity, catchment area, and command area for effective water management. To protect wetlands, groundwater recharge zones.
Data Used	Taluk Boundary, Location Tanks, Road Network
Data Process	Latitude and Longitude of Tanks Procured from Google Earth and Plotted in to Arc Map
Type of Data Provided	PDF Maps

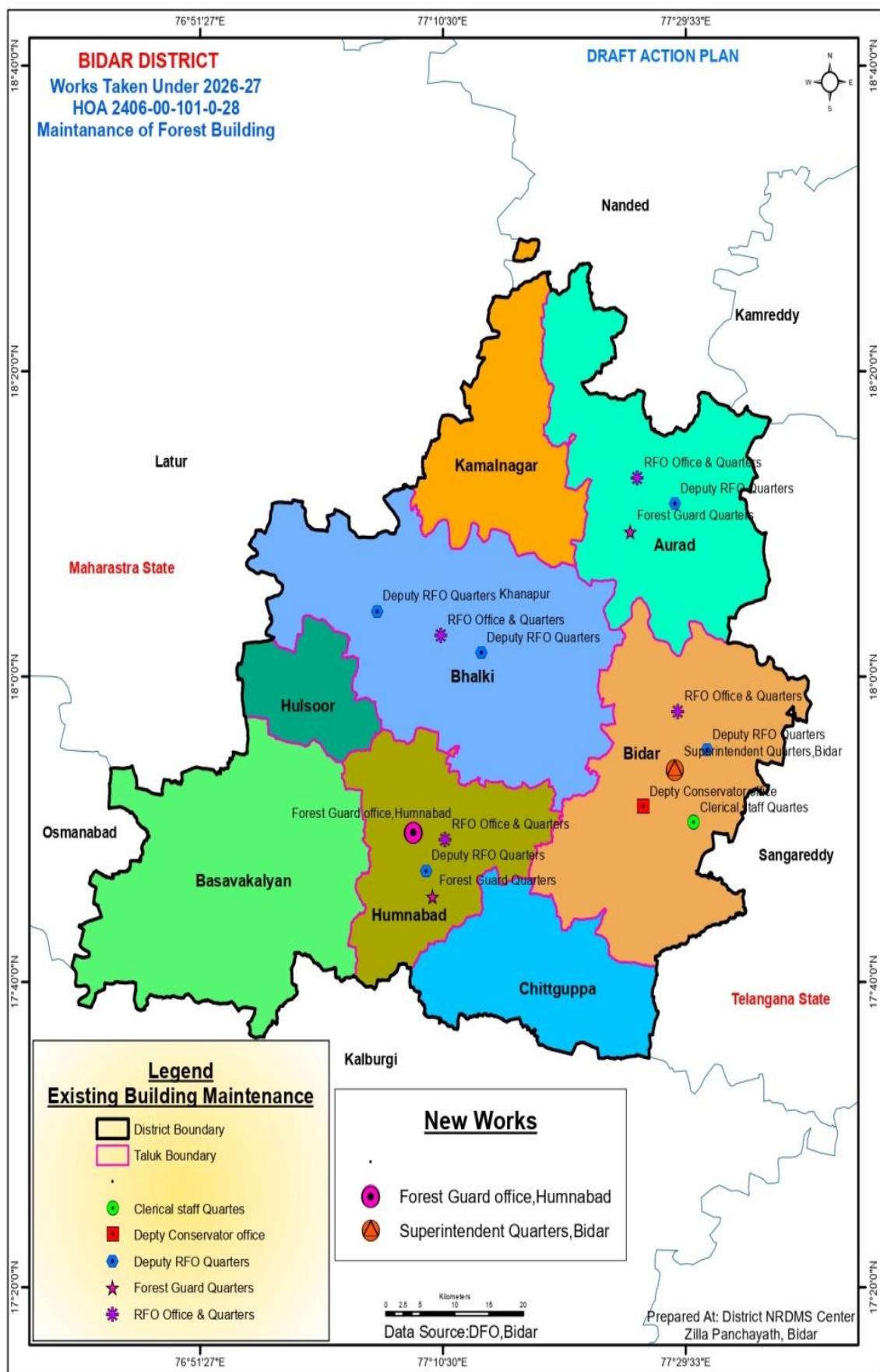
Map 7: Showing MI Tanks and Percolation Tank

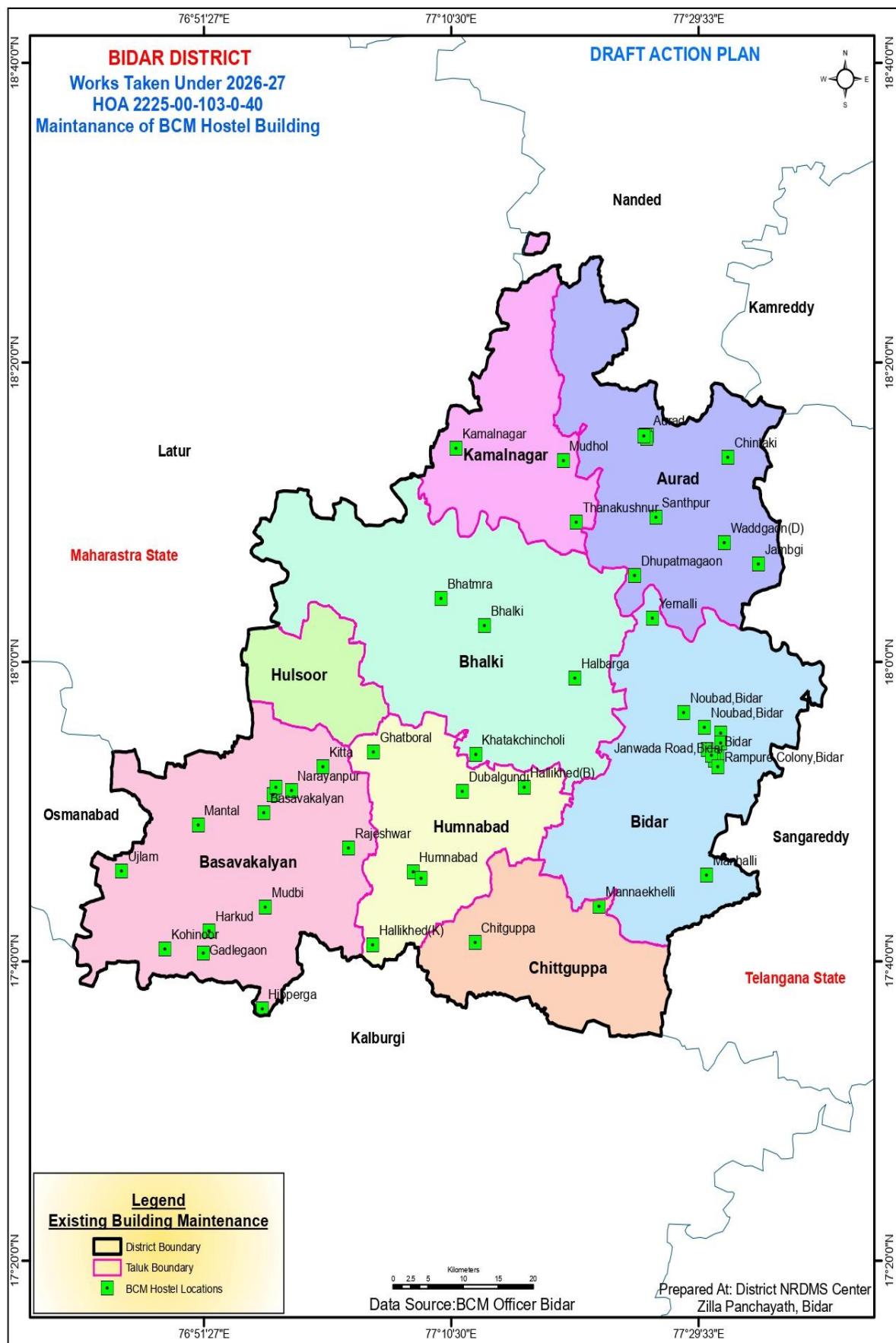


Activity -6

Title of work	GIS Based Action Plan
Department Name	Planning Department ZP
Objectives	To integrate geographic, demographic, and socio-economic data for accurate and location-specific planning. Provides clear visual information that enhances transparency in planning and execution of work
Data Used	Taluk Boundary, Location of Asset
Type of Data Provided	PDF Maps

Map 8: Showing Forest and BCM Department Asset Action Plan Map.





2. Training Programmes Attended:

1. Attended one day training regarding “**Yuktadhara Portal**” at Zilla Panchayat, Kalburgi 18th September 2025.

3. Training Imparted to Line Department:

1. Provided 2-day GIS training to newly appointed Village Administrative Officer, Revenue Department in Bidar district on 26-08-2025 to 28-08-2025.

4. Science Outreach Activities:

No Science Outreach Activities were conducted during this period.

5. Conclusion:

A) Summary of Activities Under Take.

During this period district NRDMS center, ZP Bidar 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 Bidar 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 and other software to improve our efficiency.

6. Annexures:

List of Tables:

Table 1: Showing Road wise Length, Road Nomenclature

List of Maps:

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Map 7: Showing MI Tanks and Percolation Tank

Map 8: Showing Forest and BCM Department Asset Action Plan Map
