

NATURAL RESOURCES DATA MANAGEMENT SYSTEM (NRDMS)

MONTHLY ACTIVITY REPORT

April - July 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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1. Basic Information of Bidar District:

District Name: Bidar

Division: Kalburgi

District Establishment Year: 1956

Head quater: Bidar City

Current CPO: Mr.Kishorkumar Dube

Current CEO: Dr.Girish Dilip Badole, IAS,

2. Background of District NRDMS Centre, Bidar:

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 2006-07 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:

Bidar district is located in Top of Karnataka and situated in north latitudes of 17.9N and longitudes of 77.5E. It has common boundaries with Maharashtra and Telangana which is, with the districts of Nizamabad and Medak in Telangana on the East and the districts of Latur, Nanded and Osmanabad in Maharashtra on the west. On the south lies the Kalburgi district. Location Map of Bidar district is shown in below Map.

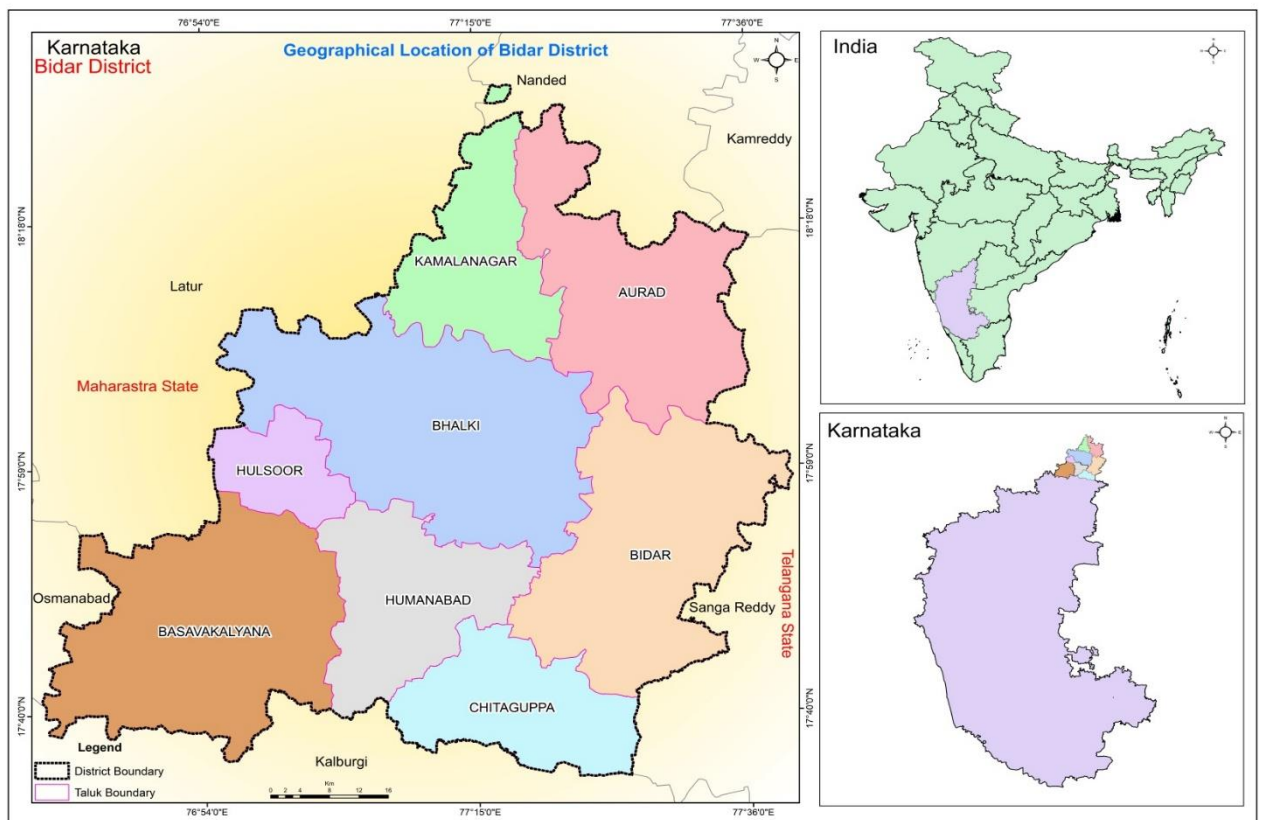
For administrative convenience Bidar district has been divided into 8 Talukas with 635 Villages. Bidar district contains 30 Hoblies, 7 Urban Local bodies and 185 Gram Panchayats. The details are given below in **Table-1**.

Table - 1 showing administrative details of Bidar district.

SL No	Taluk	No of Villages	No of Hoblis	No of GP's	No of ULB's
1	Bidar	132	06	35	01
2	Aurad	101	03	21	01

3	Kamalnagar	56	03	18	00
4	Bhalki	133	06	40	01
5	Basavakalyan	103	05	31	01
6	Hulsoor	18	01	07	00
7	Humnabad	54	03	19	02
8	Chiutguppa	38	03	14	01
Grand Total		635	30	185	07

Map 1: Location Map of Bidar District.



B. Topography:

Bidar District, located in the northern part of Karnataka, India, lies at a central position in the Deccan Plateau with an elevation range of 580 to 715 meters above mean sea level. Bidar's topography is characterized by the high, flat, and undulating, Bidar Plateau, a part of the Deccan Plateau, with elevations ranging from about 580 to 715 meters (1,900 to 2,340 ft) above sea level. The landscape features solidified lava, black soils, and basaltic rocks, with flat-topped hills and terrace-like sides, while the northern part includes more level surfaces and broad valleys. The city of Bidar itself is located on this hill-top plateau.

Bidar is home for the second biggest Indian Air Force training center in the country. The IAF Station Bidar is used for advanced jet training of prospective fighter pilots on BAe Hawk aircraft.

Bidar city is known for its Bidri handicraft products, and its rich history. Bidar is also considered one of the holiest places for Sikh pilgrimage. Unlike other places in the region, Bidar is the coldest and wettest place in north Karnataka.

C. Climate:

Bidar District experiences a semi-arid to moderate climate typical of the Deccan Plateau, characterized by distinct seasonal variations. Below is a concise overview of the climate:

Temperature:

Maximum: Up to 43°C during peak summer months (April and May).

Minimum: Around 13°C in winter, particularly in December and January.

Rainfall:

Average annual rainfall is approximately 836.9 mm.

Most precipitation occurs during the southwest monsoon (June to September) and, to a lesser extent, the northeast monsoon (October to November).

D. Natural Resource:

Bidar District possesses a variety of natural resources that support its economy, particularly agriculture, and contribute to its ecological and industrial landscape. Below is a concise overview of the key natural resources in Bidar District:

Soil Resources:

Red Soil&Part of Black Soil: Bidar soils are deep well-drained gravelly red clayey soils developed on plateaus of laterites. They are highly gravelly soils with gravel content (60 to 10%) that decrease with depth. The major crops grown in the Bidar district include **Jowar**, which is the most significant, along with other dry crops like pulses **Redgram (Toor)**, **Green Gram (Moong)**, and **Bengal Gram (chickpea)**, Other crops grown include **Paddy, Groundnut, Sugarcane, Chilly, Wheat, and Soyabean**, which are major agricultural outputs.

Major Rivers/Water Resource:

Bidar district relies on a combination of rivers, reservoirs, and other water sources for its water supply, primarily for agriculture, drinking, and industrial purposes. Below is a detailed overview of the major rivers, reservoirs, and water sources in Bidar district.

Water Resources:

Rivers: The primary river systems in Bidar are the Manjra and Karanja rivers, with the Karanja being a tributary of the Manjra. These rivers flow through the district and are part of the Godavari basin, making Bidar the only part of this major river system. Additionally, Bidar is historically famous for its ancient Karez (Qanat) system, a network of subterranean tunnels that provided water by harnessing groundwater.

Manjra River

A perennial river that flows through the central part of Bidar district in an easterly direction with a meandering course. It is a major tributary of the Godavari River and the primary surface water source in the region.

Karanja River

A sub-tributary of the Manjra River, flowing in a north-westerly direction. It is a significant water source, with the Karanja reservoir serving as a major water storage facility.

Karez (Qanat) System

This is a unique ancient water management system consisting of underground tunnels, carved into laterite rock, to channel groundwater.

Groundwater:

Groundwater in the Bidar district of Karnataka faces challenges from declining water levels due to scarce rainfall and over-extraction, leading to water scarcity and vulnerability to contamination from nitrates and fluoride. The district's groundwater relies on fractured and weathered basalt aquifers, with irrigation being a major consumer of this resource.

Mineral Resources:

The mineral sources of Bidar district, Karnataka, include Bauxite, Kaolin (China Clay), and Red Ochre, primarily found in the lateritic soils of the Bidar, Humnabad, and Basavakalyan talukas. These minerals are often found in altered layers of the Deccan trap rock formations that characterize the region.

Forest Resources:

Bidar Forests cover 43,592 hectares, or about 8.5% of Bidar's total geographical area of 5,448 km². The region's forests are predominantly scrub, with some dry mixed deciduous patches.

Important forests and wildlife areas

- **Honnikeri Reserve Forest:** Located near Vilaspur lake, this is an excellent spot for bird watching and is known for its free-roaming blackbucks. Visitors can go on nature walks and trail blackbucks on foot in the surrounding grasslands.
- **Chitta Reserved Forest:** This forest is situated along Manhalli Road in Bidar and is recognized as a notable forest in the area.
- **Khanapur Forest:** This forest is part of a semi-arid region on the Deccan Plateau that supports grasslands, scrub, and dry deciduous vegetation.,119 medicinal plant species here, highlighting the area's rich biodiversity.

Forest types and wildlife

- Blackbucks: Bidar has a significant blackbuck population, especially in the grasslands near the Air Force Station.
- Birds: The region is home to a variety of bird species, including peafowl, Indian coursers, and numerous water birds that visit the many local lakes.
- Other animals: Common sightings include jackals, foxes, porcupines, and hares.

4. 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 covered	Status Code	File Format
1. Natural Resources						
<i>Land</i>						
1. Topography						

Contour Map	30 Mtr	ASTER DEM		District	CC	.Shp
Slope Map	1:50,000	KRSRAC		District	CC	.Shp
2. Geology – A						
Rock features	1:50,000	KRSRAC		District	CC	.Shp
Structural features	1:50,000	KRSRAC		District	CC	.Shp
3. Geology – B						
Rock features		NA				
Structural features		NA				
4. Mineral Resources		NA				
5. Geomorphology	1:50,000	KRSRAC		District	CC	.Shp
6. Land use	1:50,000	KRSRAC		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	BBBIKE&		District	CC	.Shp

		KRSAC				
Surface water bodies	1:50,000	BBBIKE&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&KRSAC		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	KSRSAC	District	CC	.Shp	
Tube wells		NA				
Dug wells		NA				
Tanks	1:50,000	KSRSAC	District	CC	.Shp	
Lift irrigation		NA				
<i>Major irrigation</i>						
Reservoirs	1:50,000	KSRSAC	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 / Publn. Year	Area covered	Status Code	File Format
5.Infrastructure						
Communications						
Post offices	1:50,000	Dept of Posts	District	CC	.Shp	
Telecommunication		NA				

Drinking water	1:50,000	RDWSD	District	CC	.Shp	
Educational facilities	1:50,000	DDPI	District	CC	.Shp	
Electricity		NA				
Financial institutions		NA				
Markets		NA				
Health	1:50,000	DHO	District	CC	.Shp	
NGO's		NA				
Tourism	1:50,000	Tourism	District	CC	.Shp	
Transport	1:50,000	PWD & SOI	District	CC	.Shp	
6.Miscellaneous						
District map with taluks	1:50,000	SOI&KSRS AC	District	CC	.Shp	
District & taluk boundaries	1:50,000	SOI&KSRS AC	District	CC	.Shp	
District map with hoblies	1:50,000	DLR & SS	District	CC	.Shp	
Village boundary with settlement	1:50,000	SOI/KSRA C	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 Panchayhs & Zilla Panchayaths, its jurisdiction for all taluks	1:50,000	DC	District	CC	.Shp	

Non-Spatial Database

Sector / Subsector	Source	Survey / Publn. Year	Area covered	Status Code	File Format
1. Natural Resources					
<i>Land</i>					
1. Topography					
Contour				NR	
Slope				NR	
2. Geology – A					
Rock Features	MGD			NR	
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	
<i>Water</i>					
Ground water					
Hydro Geology	MGD			NR	
Hydro chemistry	CGWB			NR	

Ground water budget	MGD			NR	
Surface water					
Drainage				NR	
Surface water bodies				NR	
Climate	IMD			NR	

2. Demography					File Format
Population					
Tehsil boundary	DLR & SS			CC	XLS
District boundary	SOI			CC	XLS
Current popln. distbn.	DES			CC	XLS
Literacy					File Format
Levels of education				NA	
Occupation					
Village boundary	DES			NA	
Employment					
District scenario	EO			NA	
Employment exchange	EO			NA	
Assets & Expenditure					
Migration					
Destitutes					

3. Socio Economy					File Format
Industry	DIC			NA	
Developmental activity	DIC			NA	

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

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

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

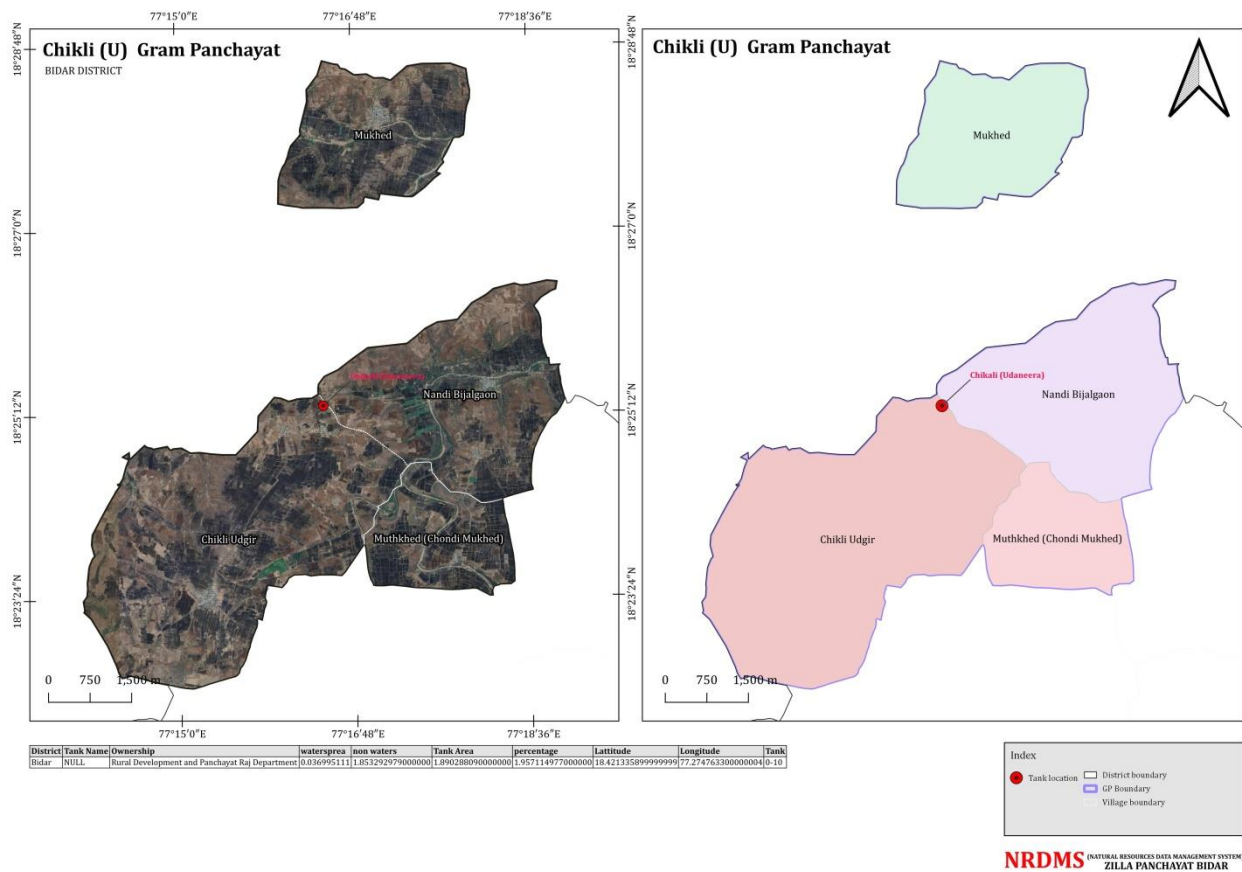
Sector / Subsector	Source	Survey / Publn. Year	Area covered	Status Code	File Format
6. Miscellaneous					

Administration	DC office				
Dt. & Subdivsns.	DC office			NA	
Dt., with tehsils	ZP			NA	
Dt., with panchayat	DC			NA	
Tq., with census vil.	DC			NA	
Prices & wages				NA	
Environment				NA	

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

Activity -1

Title of work	Location of Tanks and Identification of Tank Area More than 2.25ha
Department Name	Zilla Panchayat , Bidar
Objectives	For Action planning and Renovation Activity of tanks to effective water resource management, conservation.
Data Used	Village Boundary, Tank Location, Google Imagery
Type of Data Provided	Pdf Map was provided along with list of Villages with Tanks area more than 2.25 ha



Map-2

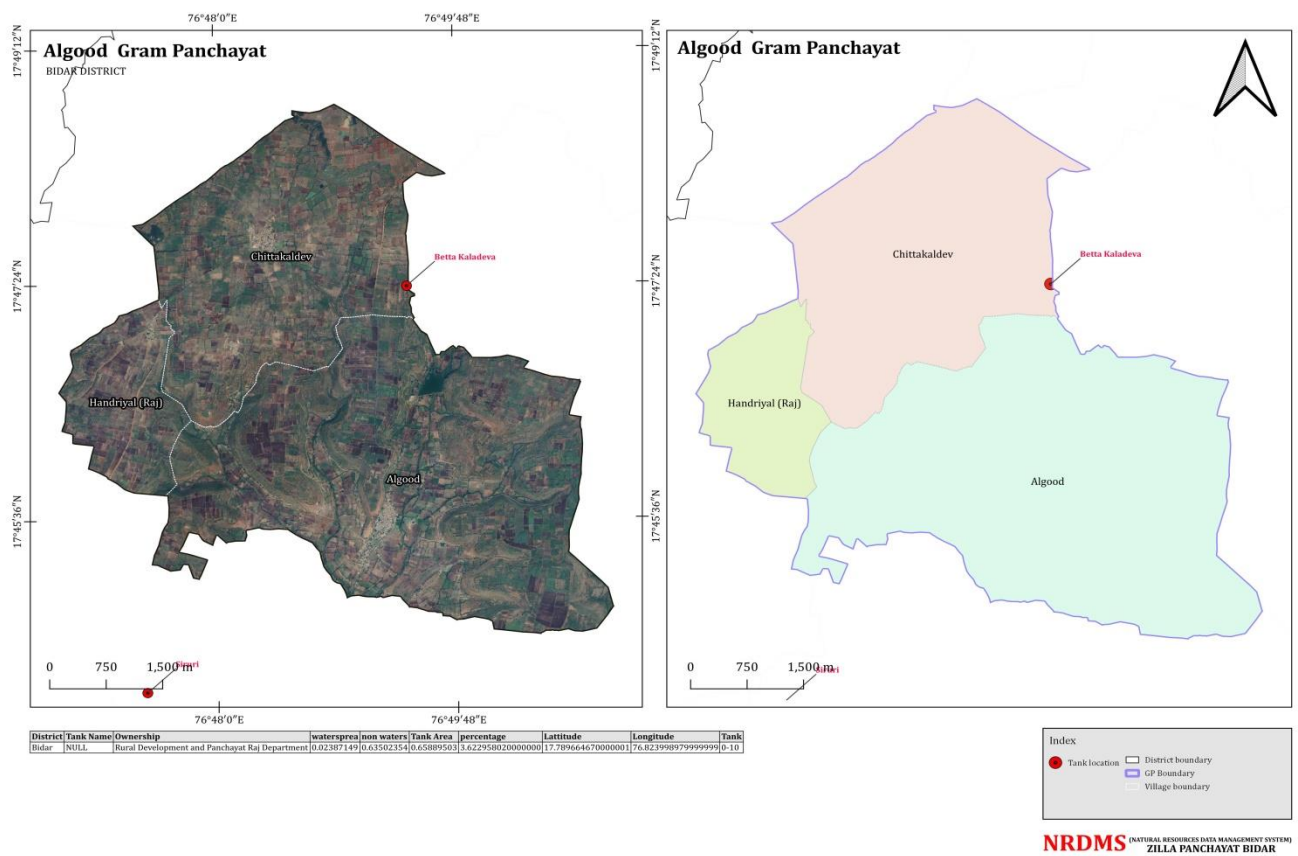


Table-2 Showing Location and ownerships of Tanks

Activity -2

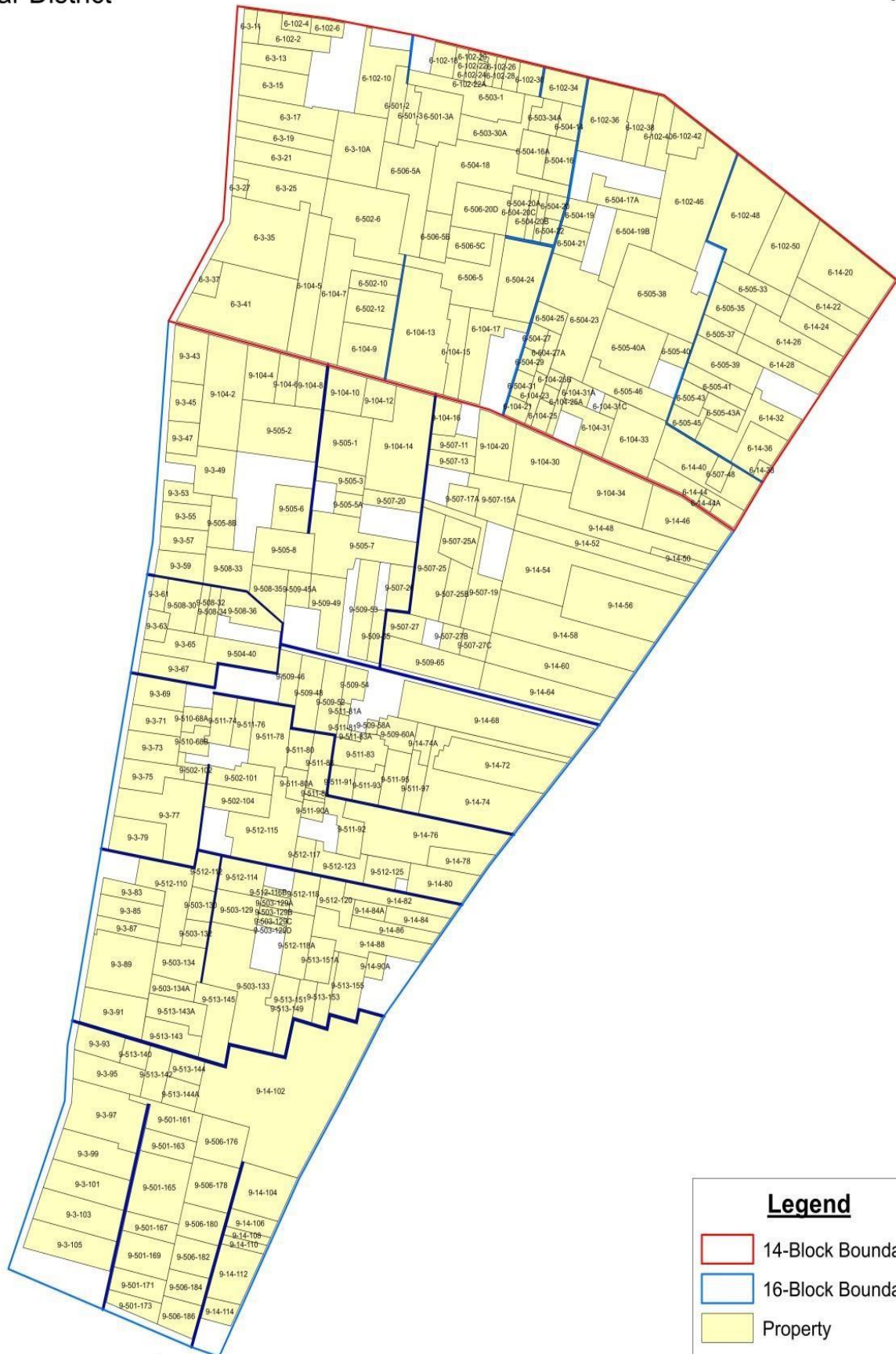
Title of work	Block Boundary Fixation and Property Asset Mapping of Bidar CMC
Department Name	CMC Office,Bidar
Objectives	Allows organizations to predict market shifts Manual processes for data collection and analysis, which saves time and improves overall efficiency, This helps identifying optimal sites for new developments.
Data Used	Ward Boundary, Google Satellite Imagery to digitize the property boundary
Type of Data Provided	Provided Pdf Map along with Block boundary wise property wise Attribute Data

Table-3 Showing Property ID and Block ID

DistrictName	TalukName	Tank Ownership	Waterspre	Non Waterspre	Total Tank Area	Village	Latitude	Longitude
Bidar	Basavakalyan	Rural Development and Panchayat Raj Department	0.051957666	0.340005704	0.39196337	Ujalamba	17.76132583	76.77093485
Bidar	Basavakalyan	Rural Development and Panchayat Raj Department	0.247208507	0.767158363	1.01436687	Neelakanta	17.86230685	76.92091081
Bidar	Basavakalyan	Rural Development and Panchayat Raj Department	0.553698894	2.376361506	2.9300604	Siruri	17.73802755	76.79108857
Bidar	Basavakalyan	Rural Development and Panchayat Raj Department	0.38226393	2.37488041	2.75714434	Harakoda	17.70832477	76.86874046
Bidar	Basavakalyan	Rural Development and Panchayat Raj Department	1.180437252	3.628205058	4.80864231	Mudabi	17.71913167	76.93392397
Bidar	Bhalki	Rural Development and Panchayat Raj Department	1.354650142	10.91444435	12.26909449	Pygampura	18.00946677	77.3141804
Bidar	Bhalki	Rural Development and Panchayat Raj Department	0.113566149	0.890009301	1.00357545	Chandhapura	18.0481264	77.38948175
Bidar	Bhalki	Rural Development and Panchayat Raj Department	0.066188137	0.553334853	0.61952299	Somapura	18.15626802	77.16435614
Bidar	Bhalki	Rural Development and Panchayat Raj Department	0.189165111	0.809691229	0.99885634	Kongali	18.06672608	76.98605382
Bidar	Bhalki	Rural Development and Panchayat Raj Department	0.643031752	2.229886958	2.87291871	M.Thalawada	18.14289533	77.17789463
Bidar	Bhalki	Rural Development and Panchayat Raj Department	0.085228475	0.320543605	0.40577208	Kanaji	17.91406403	77.30187587
Bidar	Bhalki	Rural Development and Panchayat Raj Department	0.378328971	1.406737499	1.78506647	Donigapura	18.12113116	77.24182519
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.554021431	1.403557979	1.95757941	Hedagapura	18.11970458	77.3762072
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.704955138	3.266844672	3.97179981	Kasimpura (Aurad)	18.22958395	77.50995798
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.4160531	2.48335194	2.89940504	Chinthaki	18.22072975	77.52598207
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.283386801	0.775945659	1.05933246	Bonthi	18.37924663	77.38532101
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.132437836	1.160383134	1.29282097	Nittur	18.11579933	77.35417683
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.367390427	2.696884333	3.06427476	Chinthaki	18.2283451	77.53198389
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.255448179	1.448392631	1.70384081	Vadagaov.D	18.13439579	77.52364961
Bidar	Aurad	Rural Development and Panchayat Raj Department	0.168466654	1.093546606	1.26201326	Naganapalli	18.20754543	77.56944176
Bidar	Bidar	Rural Development and Panchayat Raj Department	0.312534756	1.059818524	1.37235328	Aliyabadh	17.94390788	77.49967398
Bidar	Bidar	Rural Development and Panchayat Raj Department	0.169553037	0.971422283	1.14097532	Avaradha (Sirsi)	17.79562738	77.38002176
Bidar	Bidar	Rural Development and Panchayat Raj Department	0.170375442	0.891748088	1.06212353	Satholi	17.78897405	77.4773063
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.314182193	1.172287807	1.48647	Hunasanala	17.92063709	77.11638399
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.387569859	1.187807151	1.57537701	Nandhagaov	17.78039096	77.20453156
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.299022075	1.735202065	2.03422414	Manikanagara	17.78532885	77.108292
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.101217764	0.419806996	0.52102476	Hunasanala	17.92130632	77.11243237
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.273351387	1.519949513	1.7933009	Dhummanasuru	17.79327642	77.12309774
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.277712273	0.836494607	1.11420688	Musthapura	17.73085924	77.06261733
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.407063119	1.227814881	1.634878	Shodawadi	17.93217363	77.10478969
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.331530188	1.085964252	1.41749444	Amirabadha	17.86413468	77.29041555
Bidar	Humnabad	Rural Development and Panchayat Raj Department	0.536448087	2.380384283	2.91683237	Hallikheda (B)	17.88161796	77.28008494
Bidar	Chittaguppa	Rural Development and Panchayat Raj Department	1.84000102	5.83810684	7.67810786	Vaddanakhara	17.77658024	77.2465134
Bidar	Chittaguppa	Rural Development and Panchayat Raj Department	0.774362669	1.950216271	2.72457894	Bataguppa	17.7202412	77.20813931
Bidar	Kamalanagara	Rural Development and Panchayat Raj Department	0.24287022	1.07039846	1.31326868	Murki	18.32382979	77.2157922
Bidar	Kamalanagara	Rural Development and Panchayat Raj Department	0.202963937	0.515628083	0.71859202	Savale	18.20306291	77.24224183
Bidar	Hulasuru	Rural Development and Panchayat Raj Department	0.22707578	1.15076723	1.37784301	Mirakala	17.99589498	76.93884862

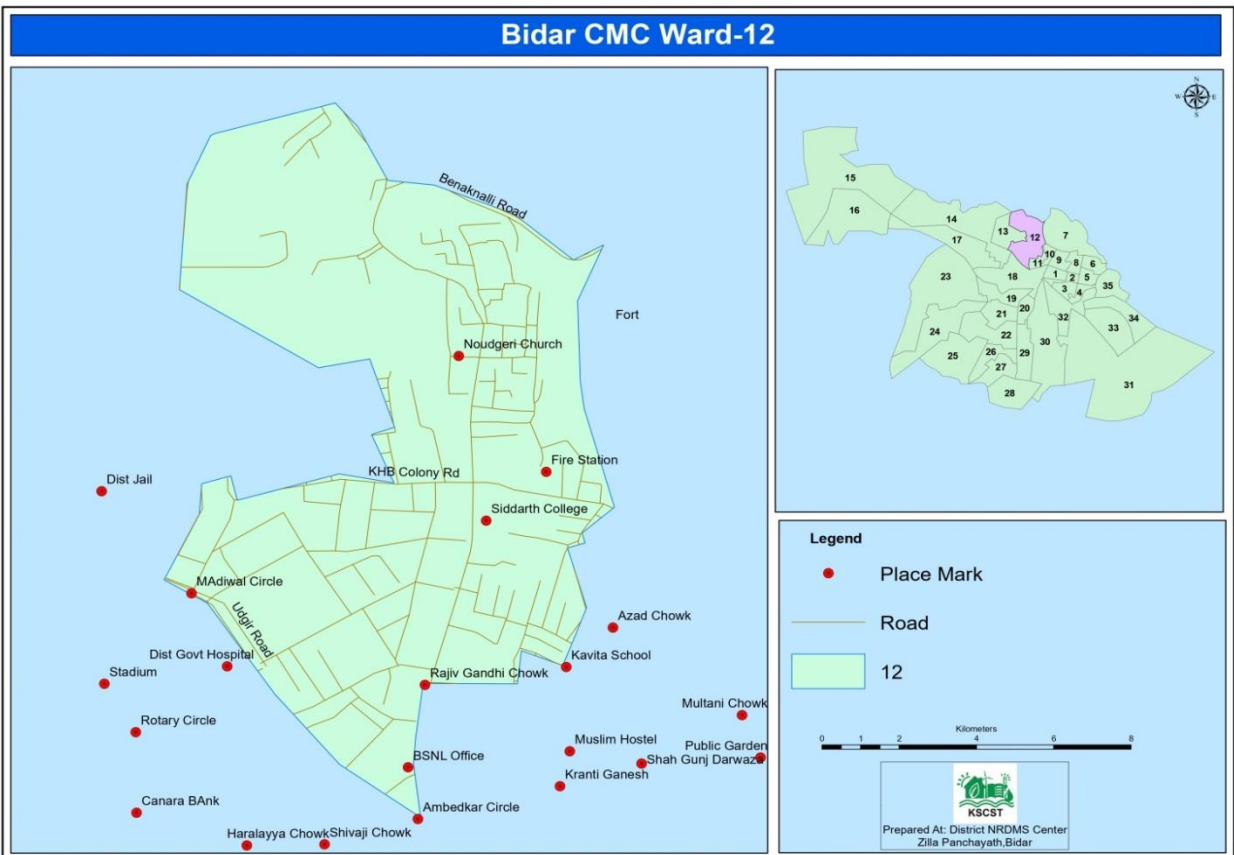
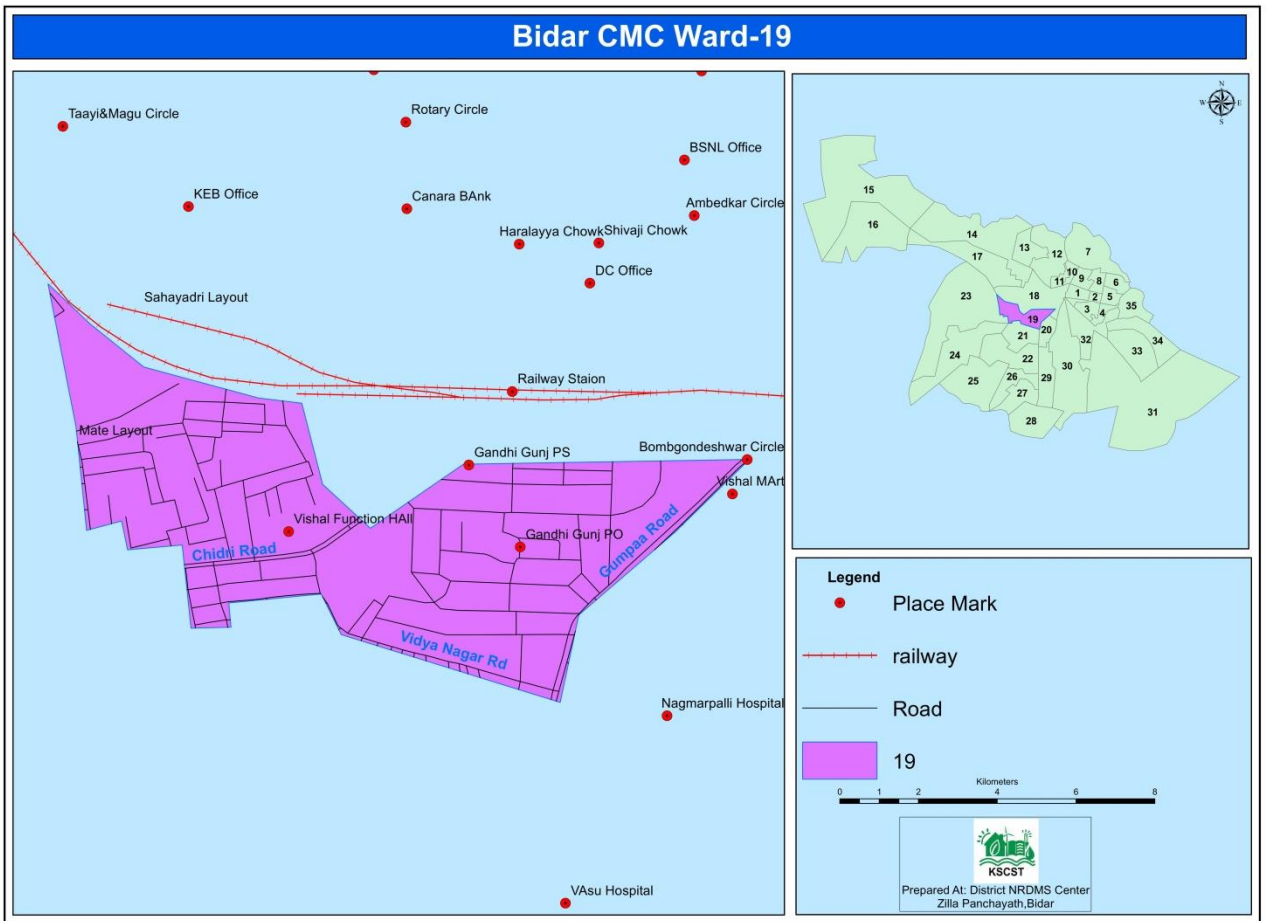
Map-3

Shape	Id	WardId	BlockId	PropertyId	Shape_Leng	Shape_Area
Polygon	0	33	14	33-14-954-89	38.185043	72.441955
Polygon	0	33	14	33-14-954-93	38.597517	74.293415
Polygon	0	33	14	33-14-954-97	38.167336	70.068684
Polygon	0	33	14	33-14-954-101	40.283228	84.254509
Polygon	0	33	14	33-14-954-105	40.090021	81.754786
Polygon	0	33	14	33-14-954-109	41.694711	92.287476
Polygon	0	33	14	33-14-954-113	39.259834	73.55134
Polygon	0	33	14	33-14-619-46	47.609107	131.716304
Polygon	0	33	14	33-14-954-87	40.712267	90.440101
Polygon	0	33	14	33-14-954-91	40.954345	91.153264
Polygon	0	33	14	33-14-954-95	42.032684	97.745745
Polygon	0	33	14	33-14-954-99	39.94589	82.348634
Polygon	0	33	14	33-14-954-103	42.840056	101.962811
Polygon	0	33	14	33-14-954-107	41.009032	87.849972
Polygon	0	33	14	33-14-954-111	41.22248	88.337089
Polygon	0	33	14	33-14-954-115	44.663443	112.538548
Polygon	0	33	14	33-14-954-86	43.892978	120.316563
Polygon	0	33	14	33-14-954-90	33.629464	63.852259
Polygon	0	33	14	33-14-954-94	31.329072	52.105072
Polygon	0	33	14	33-14-954-98	33.0043	61.846516
Polygon	0	33	14	33-14-954-102	33.013128	62.706698
Polygon	0	33	14	33-14-954-106	31.804827	57.116846
Polygon	0	33	14	33-14-954-110	33.099089	64.476701
Polygon	0	33	14	33-14-954-114	31.75272	58.240702
Polygon	0	33	14	33-14-619-47	32.548841	62.035332
Polygon	0	33	14	33-14-954-88	35.288046	72.671217
Polygon	0	33	14	33-14-954-92	35.006534	71.749155
Polygon	0	33	14	33-14-954-96	33.807236	65.81154
Polygon	0	33	14	33-14-954-100	32.939403	61.967365
Polygon	0	33	14	33-14-954-104	35.222645	74.674417
Polygon	0	33	14	33-14-954-108	33.087812	64.101241
Polygon	0	33	14	33-14-954-112	32.549065	61.969151
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Polygon	0	33	14	33-14-619-56	116.712721	385.296348
Polygon	0	33	14	33-14-619-54	115.359839	259.157242
Polygon	0	33	14	33-14-619-55	115.480948	306.06662
Polygon	0	33	14	33-14-619-53	120.271574	344.182185



Legend

- 14-Block Boundary
- 16-Block Boundary
- Property
- Roads



Activity -3

Title of work	Preparation of TB Rate village wise Map
Department Name	Health Department,TB Center ,Bidar
Objectives	To identify areas with a high burden of TB cases. Disease maps help in identifying specific geographic locations (such as Village, GP,Taluk) where TB transmission is more Prevalent. To allocate resources efficiently and prioritize intervention in high-risk areas
Data Used	Village Layer,Taluk Layer,TB Cases Details (Non-Spatial)
Type of Data Provided	Provided Pdf Maps

Table-4 Showing Village wise TB Cases Ratio per Thousand Population

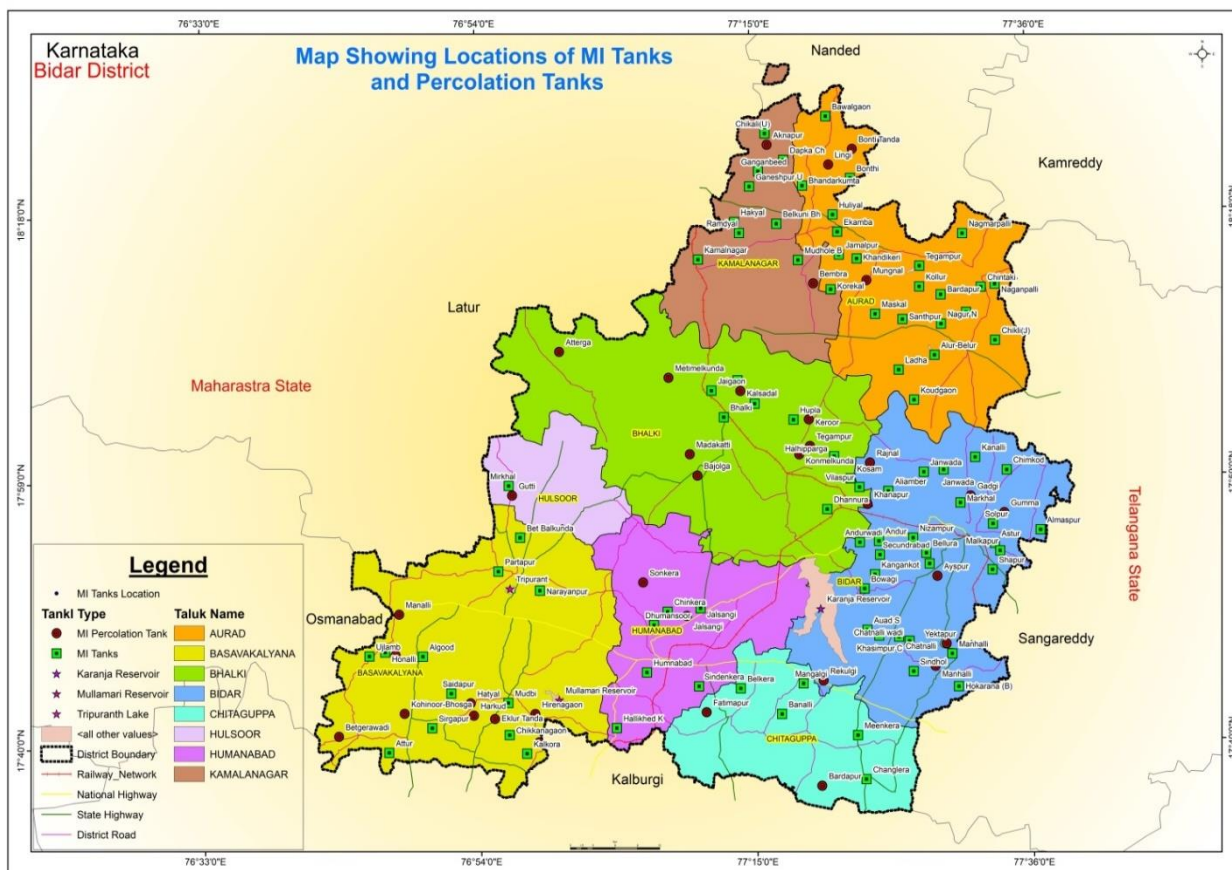
Block_Name	CENSUS2011	VILL_NAM_4	TB Ratio
BASAVAKALYAN	599792	Algood	0.55
BASAVAKALYAN	599783	Atlapur	0.00
BASAVAKALYAN	599812	Attur	0.00
BASAVAKALYAN	599817	Bagduri	0.77
BASAVAKALYAN	803057	Basavakalyan (CMC)	0.00
BASAVAKALYAN	599808	Batgera	1.00
BASAVAKALYAN	599742	Betbalkunda	0.34
BASAVAKALYAN	599802	Bhaknal	0.00
BASAVAKALYAN	599799	Bhosga	1.41
BASAVAKALYAN	599785	Chandakpur	0.00
BASAVAKALYAN	599823	Chicknagaon	1.71
BASAVAKALYAN	599807	Chikotta(B)	0.00
BASAVAKALYAN	599810	Chitkota (K)	0.00
BASAVAKALYAN	599788	Chittakaldev	0.00
BASAVAKALYAN	599797	Dhamuri	3.36
BASAVAKALYAN	599744	Dhanura K	1.36
BASAVAKALYAN	599772	Dhanura R	2.38
BASAVAKALYAN	599796	Ekamba	1.28
BASAVAKALYAN	599824	Eklora	0.40
BASAVAKALYAN	599829	Gadlegaon (B)	0.00
BASAVAKALYAN	599803	Gadlegaon (K)	1.65
BASAVAKALYAN	599760	Ghoga	0.00
BASAVAKALYAN	599776	Ghotala	0.00
BASAVAKALYAN	599811	Gilagili	0.00
BASAVAKALYAN	599745	Gokul	0.42
BASAVAKALYAN	599740	Gour	0.34
BASAVAKALYAN	599793	Gundur	0.67
BASAVAKALYAN	599780	Halli	1.03
BASAVAKALYAN	599825	Hamunagar	0.00
BASAVAKALYAN	599763	Handriyal K	0.00
BASAVAKALYAN	599790	Handriyal R	1.71
BASAVAKALYAN	599762	Hanmanthwadi R	0.00
BASAVAKALYAN	599826	Harkud	0.78
BASAVAKALYAN	599809	Hattarga S	0.88
BASAVAKALYAN	599816	Hatyal	0.61
BASAVAKALYAN	599794	Hipparga Ghat	0.84
BASAVAKALYAN	599834	Hipparga(Bag)	0.00

Activity -4

Title of work	Identification and mapping of MI Tanks and Percolation Tank
Department Name	Zilla Panchayat , Bidar
Objectives	It will help in Comprehensive and reliable database for effective water resource planning, management, and policy-making. Identified tanks and other structures that are critical for recharging underground water levels
Data Used	Taluk Boundary, Village Location, Tank Location.
Type of Data Provided	Provided Pdf Maps Along with Tank Details like (Area,Village Name) in Excel formate

Table-5 Showing MI Tanks and Percolation Tanks with Village name and Area of Tank

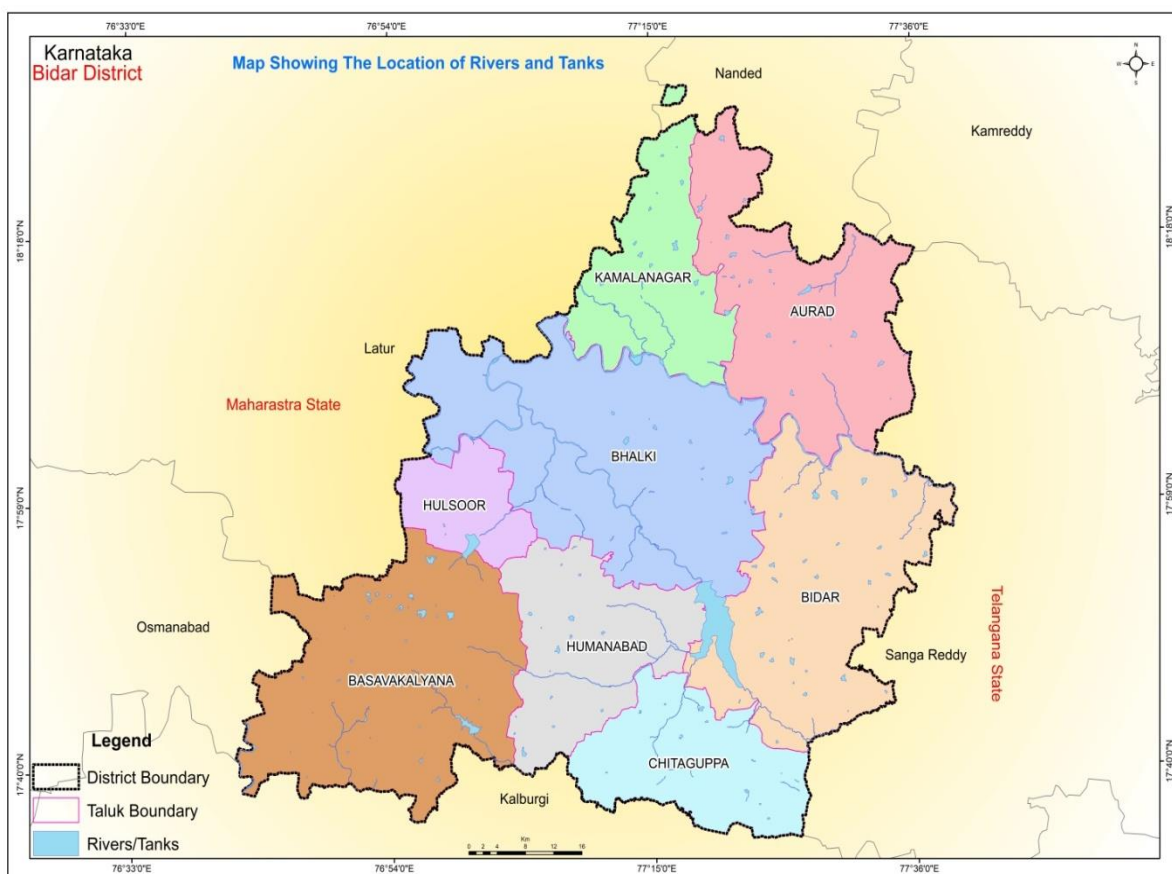
Shape *	OBJECTID	Name	DISCR	Shape_Leng	Shape_Area
Polygon Z	213	Algood	MI Tanks	0.011168	0.000006
Polygon Z	142	Aliamber	MI Tanks	0.014981	0.000001
Polygon Z	157	Almaspur	MI Tanks	0.022566	0.000022
Polygon Z	2	Alur-Belur	MI Tank	0.048764	0.000051
Polygon Z	115	Ambesangvi	MI Tanks	0.020485	0.000018
Polygon Z	163	Andur	MI Tanks	0.02355	0.000022
Polygon Z	164	Andurwadi	MI Tanks	0.019069	0.000014
Polygon Z	5	Astur	MI Tank	0.013856	0.000009
Polygon Z	48	Atterga	MI PT	0.006021	0.000002
Polygon Z	261	Attur	MI Tanks	0.006737	0.000003
Polygon Z	201	Awad S	MI Tanks	0.022026	0.000026
Polygon Z	6	Ayspur	MI PT	0.00863	0.000003
Polygon Z	49	Bajolga	MI PT	0.003397	0.000006
Polygon Z	251	Banalli	MI Tanks	0.010107	0.000005
Polygon Z	28	Bardapur	MI PT	0.004386	0.000001
Polygon Z	98	Bardapur	MI Tanks	0.014926	0.000011
Polygon Z	51	Bawalgaon	MI Tanks	0.027746	0.000029
Polygon Z	185	Bawgi	MI Tanks	0.040662	0.000042
Polygon Z	230	Belkera	MI Tanks	0.014103	0.000007
Polygon Z	68	Belkuni Bh	MI Tanks	0.038472	0.000052
Polygon Z	167	Bellura	MI Tanks	0.020097	0.000014
Polygon Z	21	Bembra	MI PT	0.010846	0.000006
Polygon Z	158	Betbelkunda	MI Tanks	0.049655	0.000071
Polygon Z	33	Betgerawadi	MI PT	0.008191	0.000003
Polygon Z	120	Bhalki	MI Tanks	0.030918	0.000004
Polygon Z	59	Bhandarkumta	MI Tanks	0.030693	0.000028
Polygon Z	58	Bonti	MI Tanks	0.014244	0.000001
Polygon Z	20	Bonti Tanda	MI PT	0.010306	0.000003
Polygon Z	271	Changlera	MI Tanks	0.007331	0.000004
Polygon Z	203	Chatnalli	MI Tanks	0.026227	0.000035
Polygon Z	209	Chatnalli wadi	MI Tanks	0.009378	0.000006
Polygon Z	256	Chidknagaon	MI Tanks	0.018617	0.000013
Polygon Z	195	Chikera	MI Tanks	0.013936	0.000008
Polygon Z	108	Chikli J	MI Tanks	0.024609	0.000024
Polygon Z	54	Chikli U	MI Tanks	0.011844	0.000008
Polygon Z	132	Chimkod	MI Tanks	0.027763	0.000038
Polygon Z	23	Chintaki	MI Tank	0.015368	0.000009
Polygon Z	55	Dapka Ch	MI Tanks	0.018084	0.000017
Polygon Z	149	Dhannura	MI Tanks	0.018046	0.000001
Polygon Z	200	Dhumunsur	MI Tanks	0.026615	0.000028
Polygon Z	74	Ekamba	MI Tanks	0.028916	0.000032
Polygon Z	37	Eklur Tanda	MI PT	0.005101	0.000001
Polygon Z	27	Fatimapur Chitguppa	MI PT	0.011747	0.000003
Polygon Z	11	Gadgi	MI PT	0.005187	0.000001
Polygon Z	56	Ganganbeed	MI Tanks	0.00671	0.000003
Polygon Z	22	Gumma	MI PT	0.006532	0.000002



Map-5

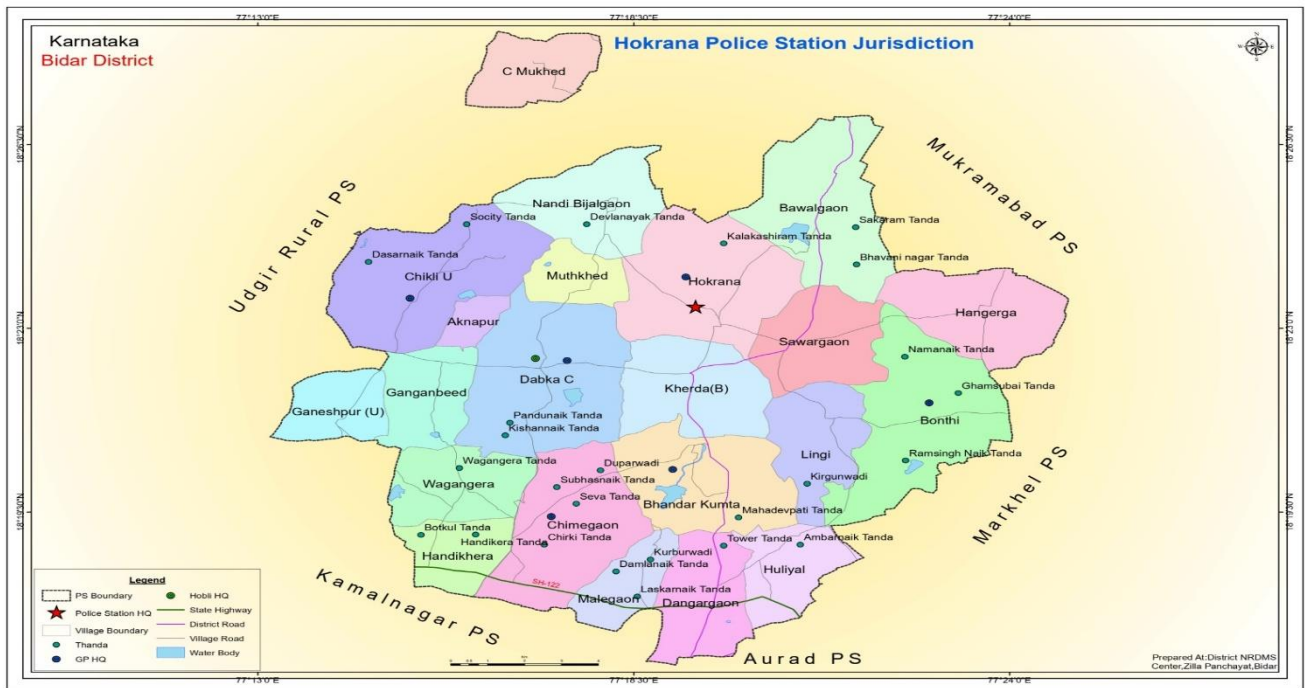
Activity -5

Title of work	Police Station Jurisdiction and Beat Mapping of Bidar District
Department Name	Police Department, Bidar
Objectives	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.
Data Used	Village boundary, Village Location, important assets locations like water body road network railway network etc...
Type of Data Provided	Provided Pdf Maps

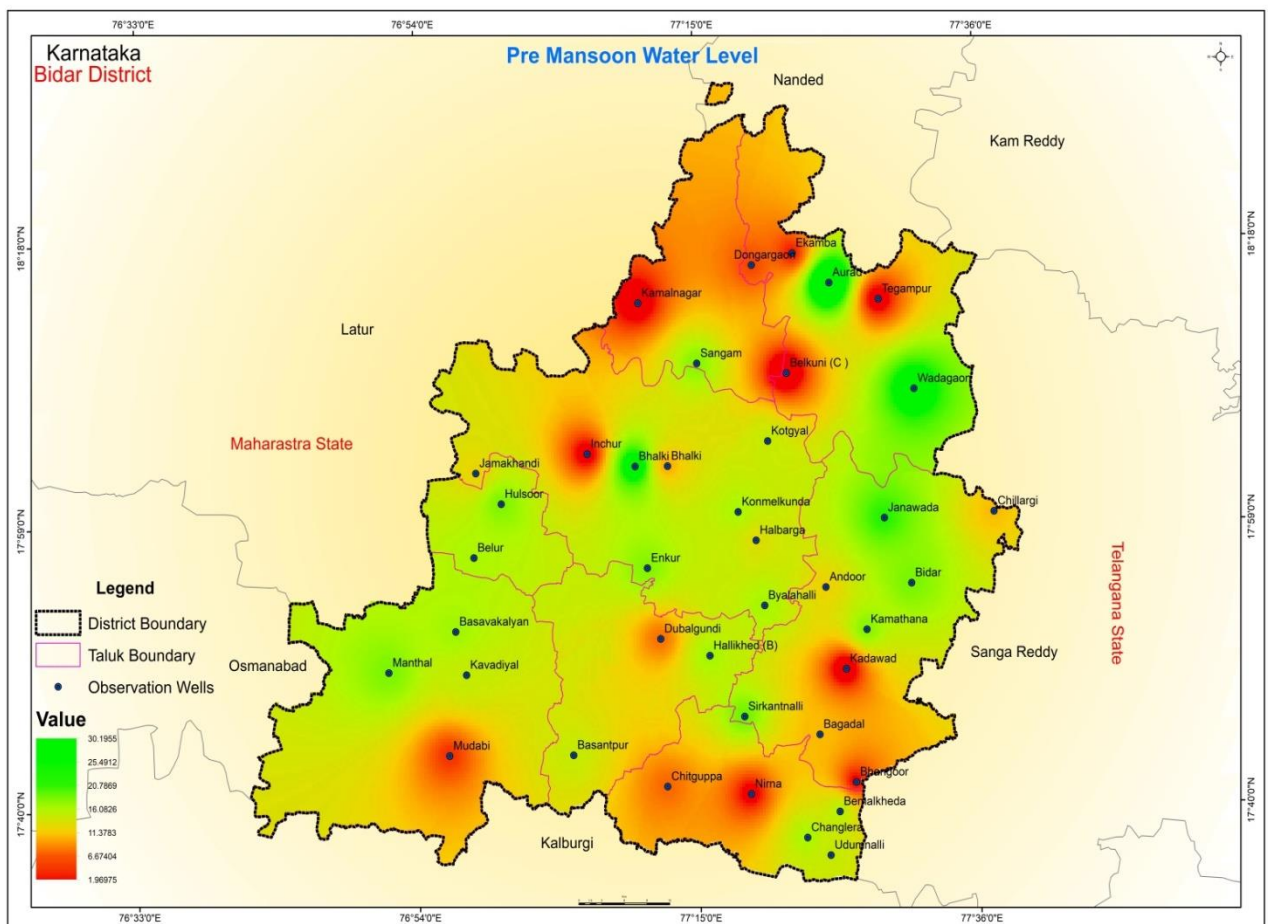


Map-6

Title of work	Mapping of Pre Manson rain fall and Ground water Level mapping
Department Name	Zilla Panchayat , Bidar
Objectives	It helps to identify and understand the impact of climate change on rainfall patterns. Forecasting, resource management, and understanding climate patterns. Groundwater levels helps to monitor, and manage precious water resources for sustainable use. This is crucial for planning and managing water supply for drinking, agriculture, and industrial needs, especially in regions vulnerable to water scarcity.
Data Used	District Boundary, Taluk Boundary, Village Location, Rain gauge Station Location Average pre Manson Rain fall
Type of Data Provided	Provided Pdf Maps



Activity -6 Table-6 Showing Hobli wise Rain gauge Station wise Rainfall



Map-7

Activity -7

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

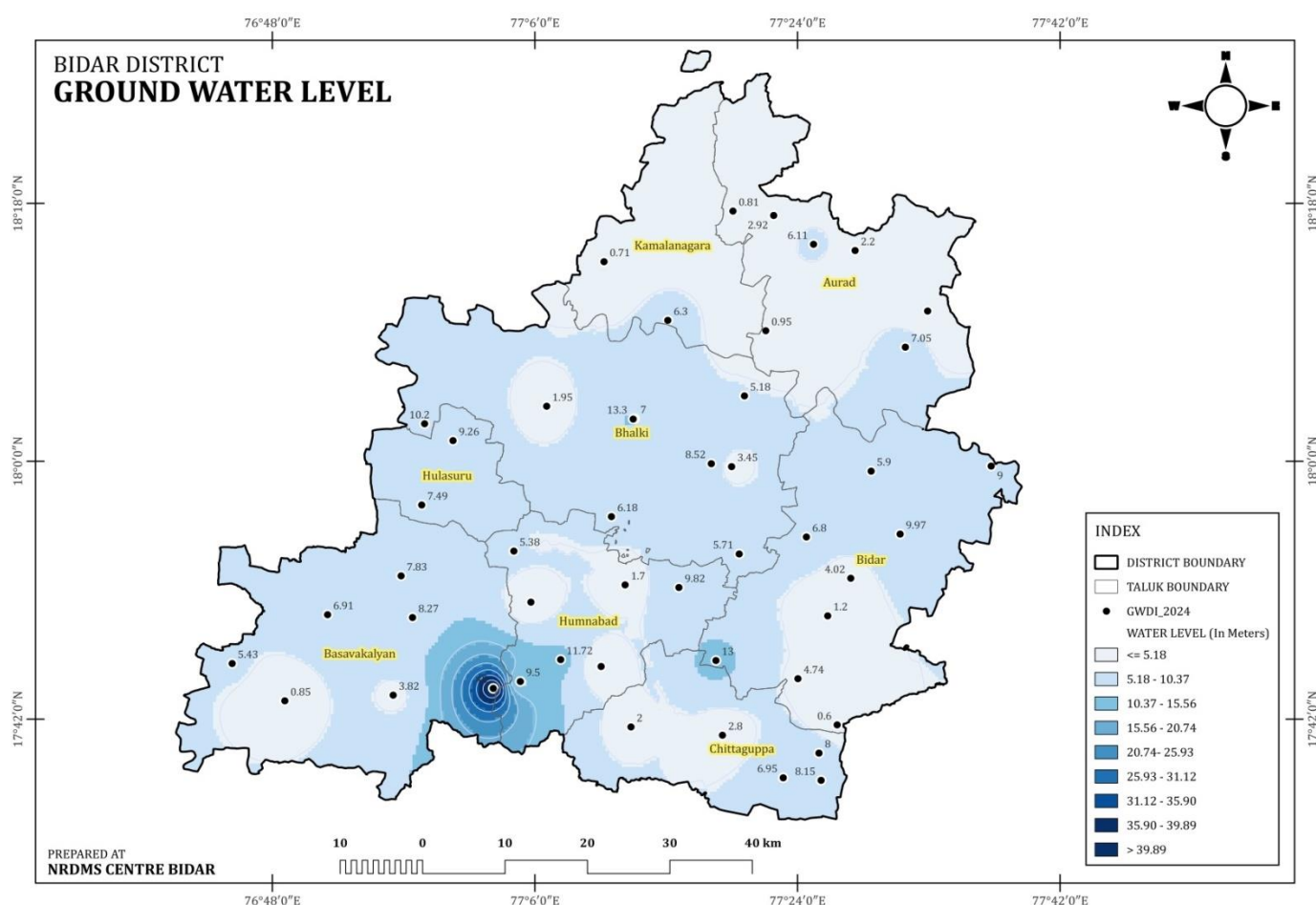
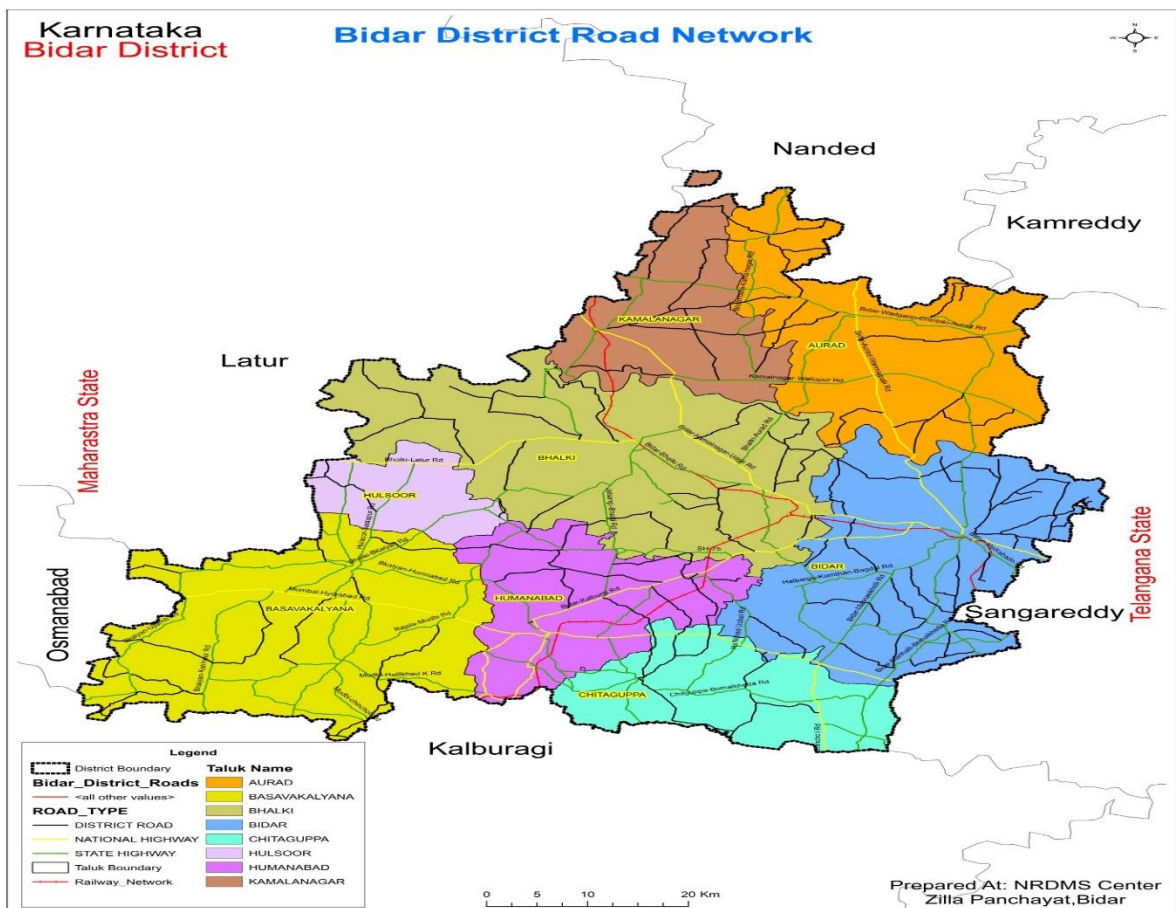
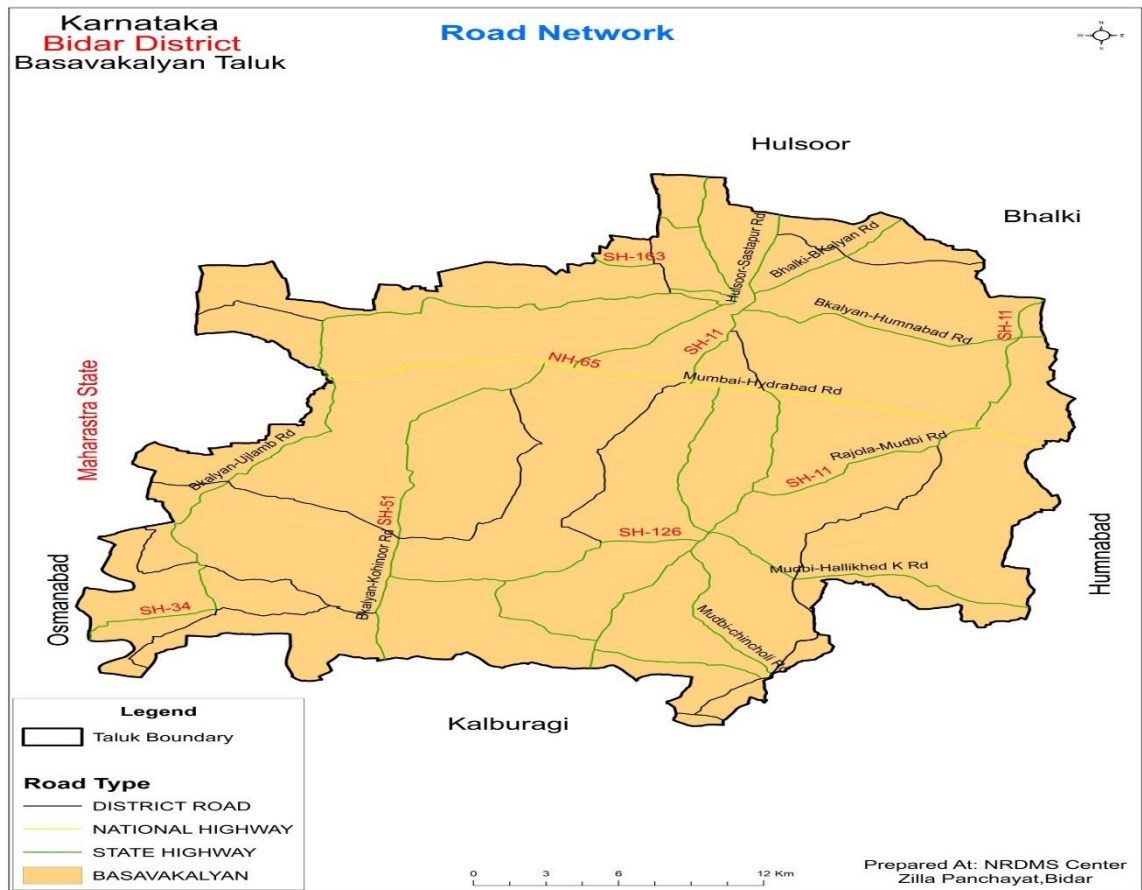


Table-7 Showing Road wise Length, Road Nomenclature

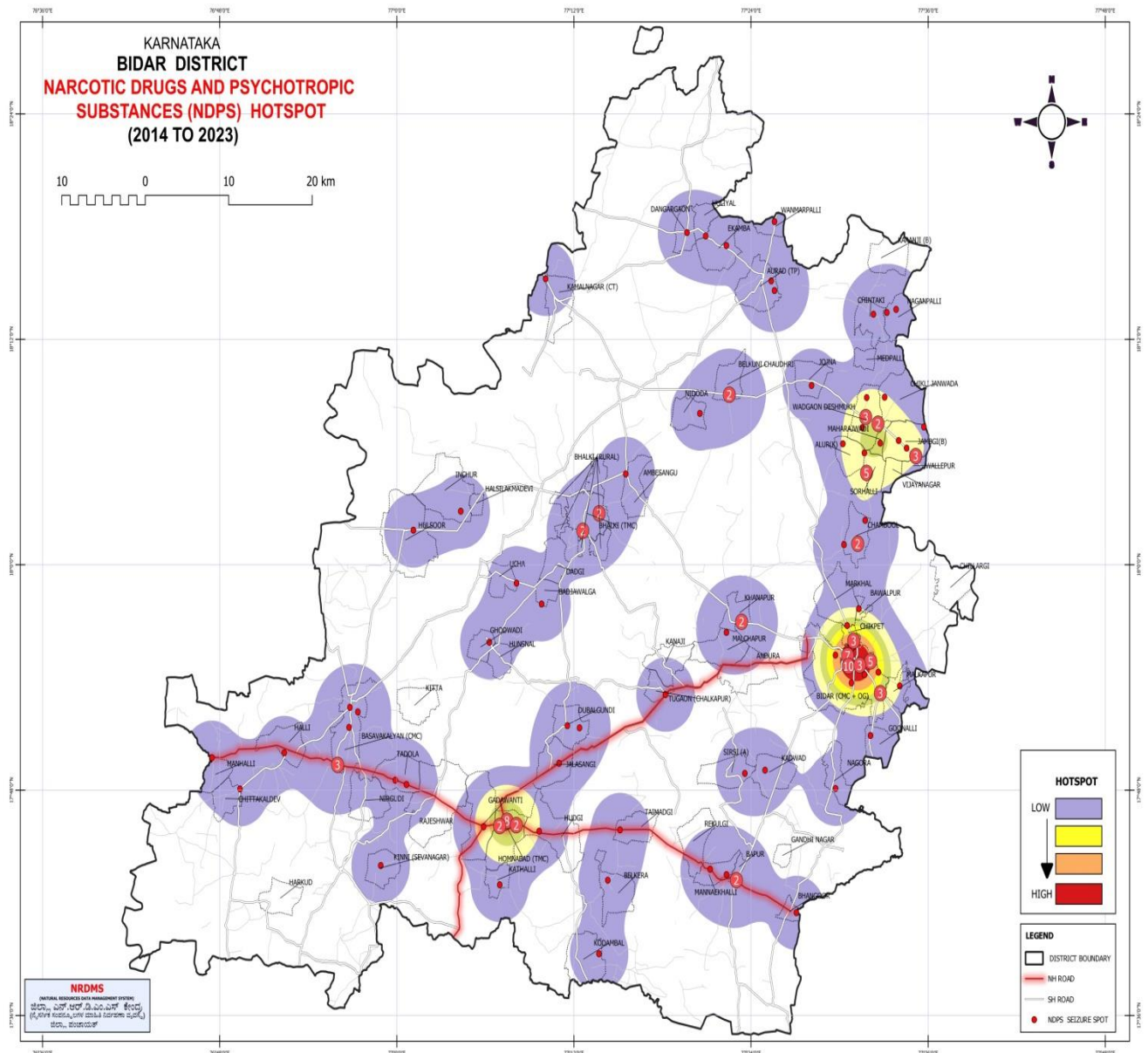
ROAD_TYPE	L_in_KM	ROAD_NA	ref	name
DISTRICT ROAD	7.56637945673781			
DISTRICT ROAD	7.18329901237056			
DISTRICT ROAD	3.53558922193876			
DISTRICT ROAD	25.4709052157503			
STATE HIGHWAY	15.2013256657773	SH-198	SH-198	Hallikhed-Udbal Rd
DISTRICT ROAD	8.31705575728528			
DISTRICT ROAD	0.685465406249976			
DISTRICT ROAD	9.44424620445361			
DISTRICT ROAD	3.41127100143624			
DISTRICT ROAD	10.369119499634			
NATIONAL HIGHWA	80.308656832007	Pune - Mac	NH-65	Mumbai-Hydrabad
NATIONAL HIGHWA	81.8705257187946	Bidar-Hum	NH-50	Bidar-Kalburgi Rd
NATIONAL HIGHWA	58.9389509695023	Bidar-Udgir	NH-50	Bidar-Kamalnagar-
STATE HIGHWAY	56.2859501316376		SH-122	Bidar-Wadgaon-Chi
NATIONAL HIGHWA	32.221392656487	Bhalki-Sah	NH-752K	Bhalki-Latur Rd
STATE HIGHWAY	24.8238559547391		SH-51	Bkalyan-Kohinoor
STATE HIGHWAY	10.3798398301414		SH-126	Mudbi-chincholi Rd
STATE HIGHWAY	16.776752978963		SH-75	Hudgi-Chitguppa-K
STATE HIGHWAY	19.6494128657149		SH-75	Jalsangi-Bhalki Rd
STATE HIGHWAY	11.1285795111463		SH-11	Hulsoor-Sastapur R
STATE HIGHWAY	39.4161097470207		SH1-23	Kamalnagar-Walla
STATE HIGHWAY	27.3390805107654		SH-34	Bkalyan-Ujlamb Rd
STATE HIGHWAY	11.0140047809787		SH-75	
STATE HIGHWAY	29.1061671248527		SH-126	
STATE HIGHWAY	4.78887993399332		SH-163	
STATE HIGHWAY	11.8371333868807		SH-4	Bidar- Hyderabadn R
STATE HIGHWAY	4.53770893912168		SH	
STATE HIGHWAY	14.2761556772329		SH	
NATIONAL HIGHWA	40.7392810699675	Bidar-Aura	NH-161A	Bidar-Aurad-Wanm
DISTRICT ROAD	11.9399247664418			
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-75
DISTRICT ROAD	9.49076890728852			
DISTRICT ROAD	6.28546695840803			
DISTRICT ROAD	7.29760427973778			
STATE HIGHWAY	3.41243450051499			
STATE HIGHWAY	12.6659767801188			Bkalyan-Humnabad
DISTRICT ROAD	6.82773095966314			
STATE HIGHWAY	15.6924840955216			Mudbi-Hallikhed K
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-8



Activity -8

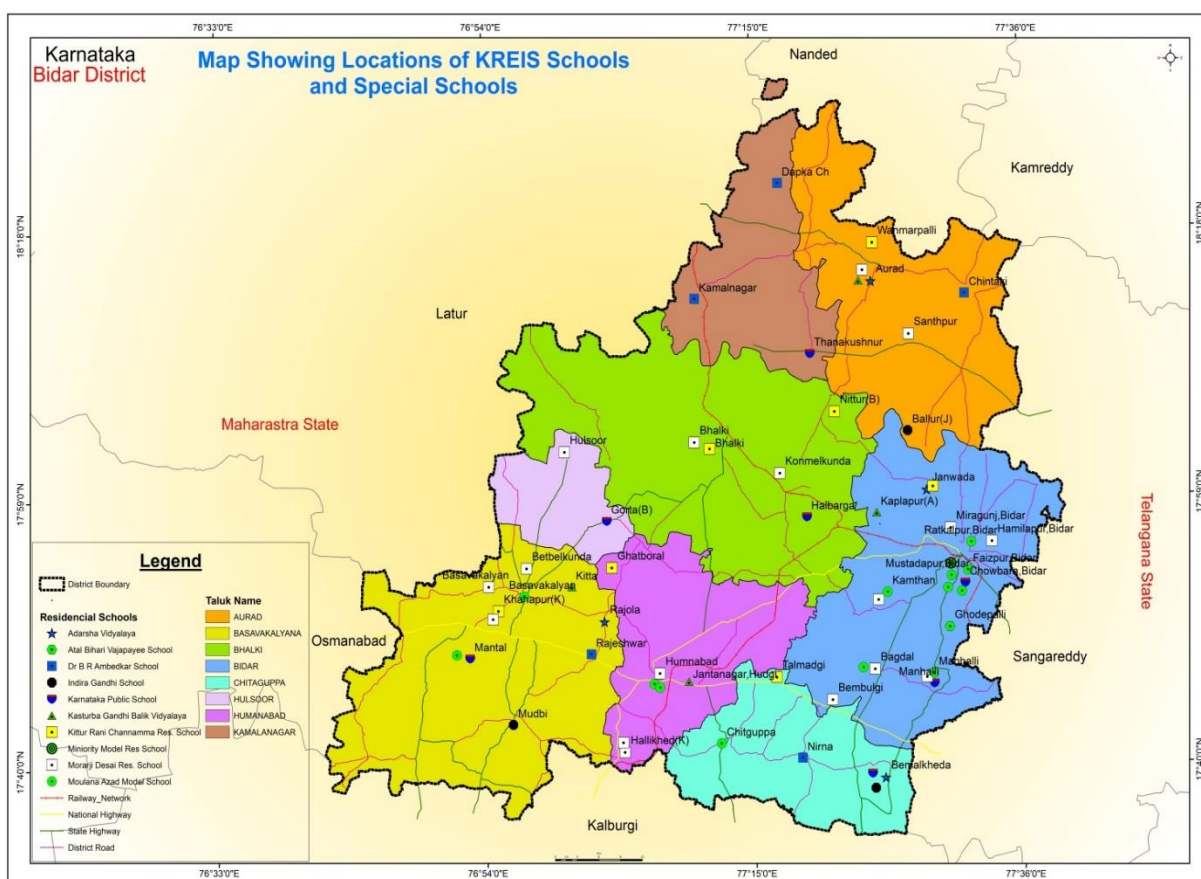
Title of work	Mapping of NDPS Substance Hotspots
Department Name	Police Department,Bidar
Objectives	It Identifies and analyze areas with a high concentration of illegal narcotic drugs and psychotropic substance-related activities. Hotspot maps help dept.to deploy resources, such as police patrols, raids, and surveillance, more efficiently by focusing on the areas with the highest rates of drug-related offenses by identifying high-risk areas can proactively intervene and disrupt drug distribution networks before they grow.
Data Used	Taluk Boundary, Identified ceased Location, Road network
Type of Data Provided	Provided Pdf Maps



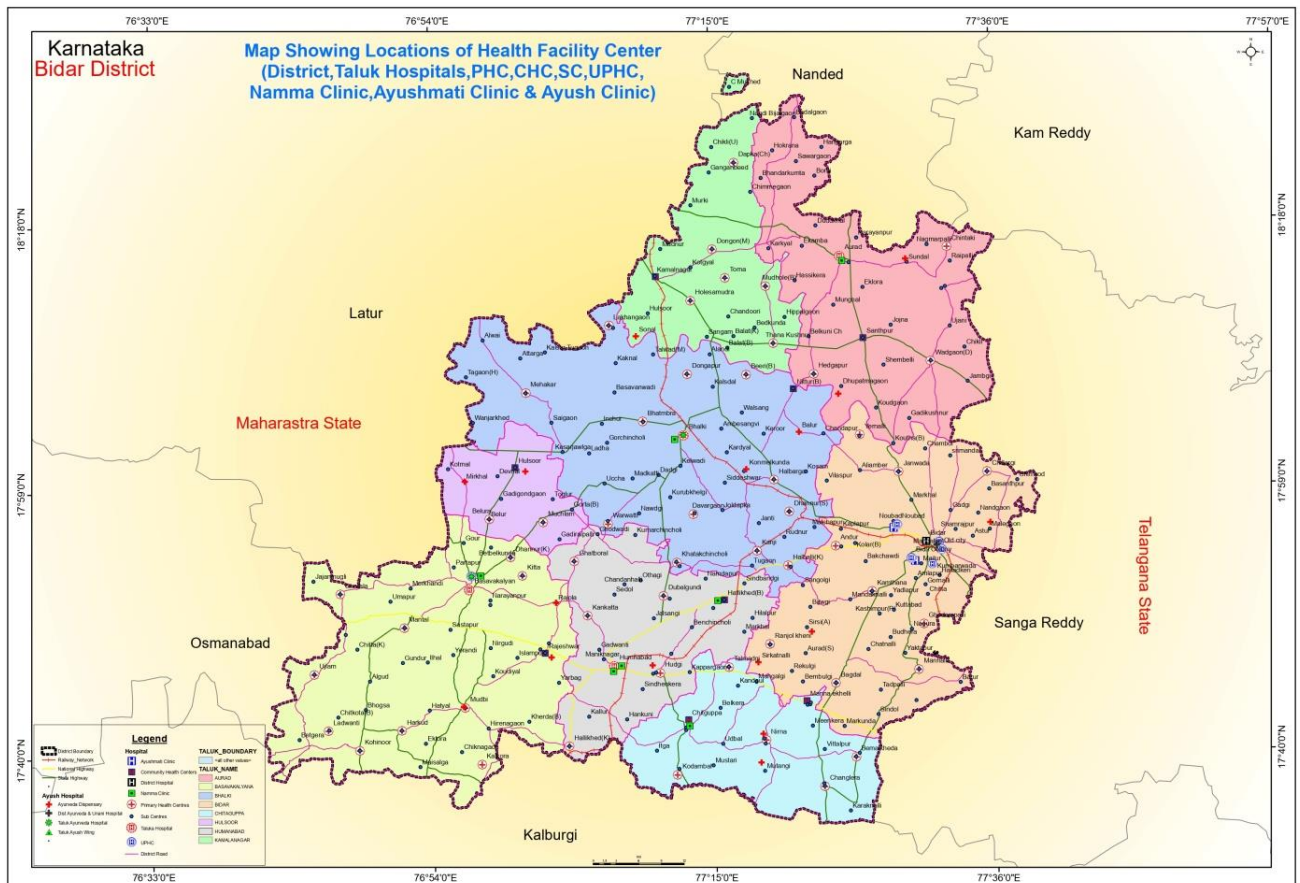
Map-09

Activity -9

Title of work	Asset Mapping, Updation of Assets such as (Health facility, Govt High Schools, Special Schools) in to Google Map
Department Name	Zilla Panchayat , Bidar
Objectives	improving navigation, enhancing communication, strengthening community health, and supporting facility management, health facilities that appear prominently in local search results on Google Maps are easier for potential patients to find, increasing foot traffic and overall visibility, this is especially critical for local clinics, School maps provide seamless way finding for students, parents, staff, and visitors. They help people to find Schools and facilities without getting lost, which is particularly helpful for newcomers.
Data Used	Taluk Boundary, Village Location, Google Satellite Imagery, Road system
Type of Data Provided	Provided Pdf Maps to CEO ZP Bidar and Updated Assets in to Google maps for public Use



Map-10

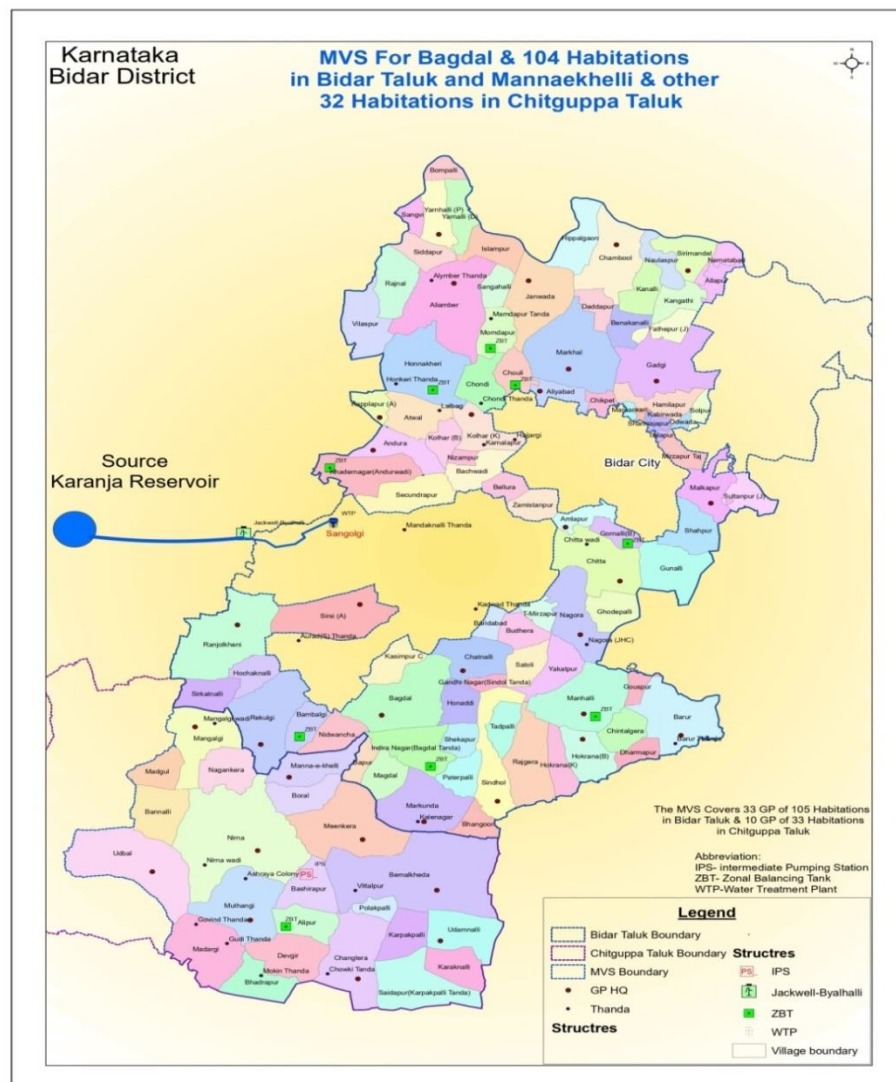




Activity -10

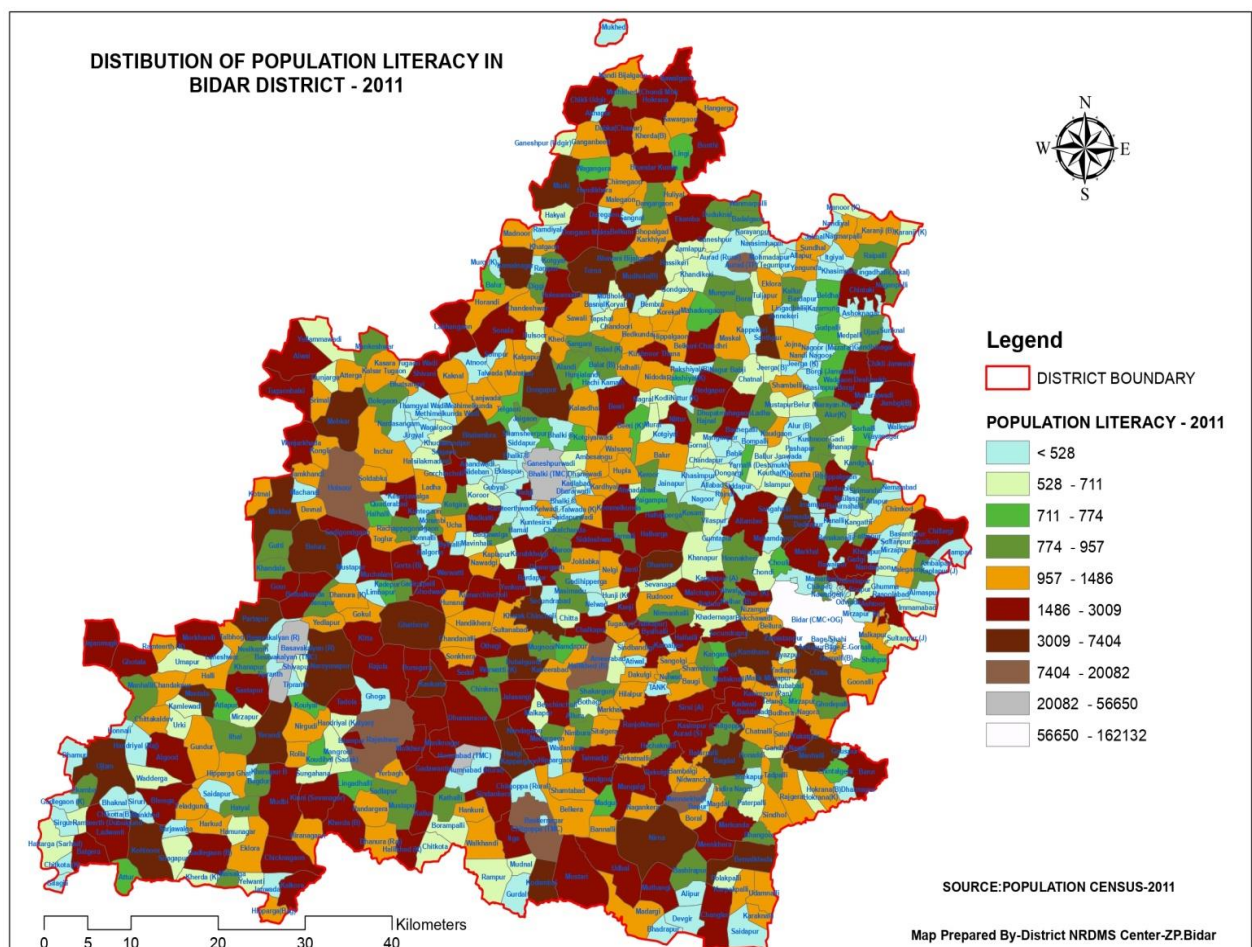
Title of work	Mapping of Multi Village Drinking Water System Line with all important Channels
Department Name	Zilla Panchayat , Bidar(RDWSD)
Objectives	For effective planning, implementation, and long-term sustainability, Mapping helps in identifying and evaluating suitable water sources, such as surface water bodies or groundwater aquifers, especially in regions facing water scarcity or contamination, it helps estimate current and future water demand by visualizing population density and household locations.
Data Used	Taluk Boundary, Village Location and boundary MVS villages.
Type of Data Provided	Provided pdf Maps of all MVS Schemes

Map-11

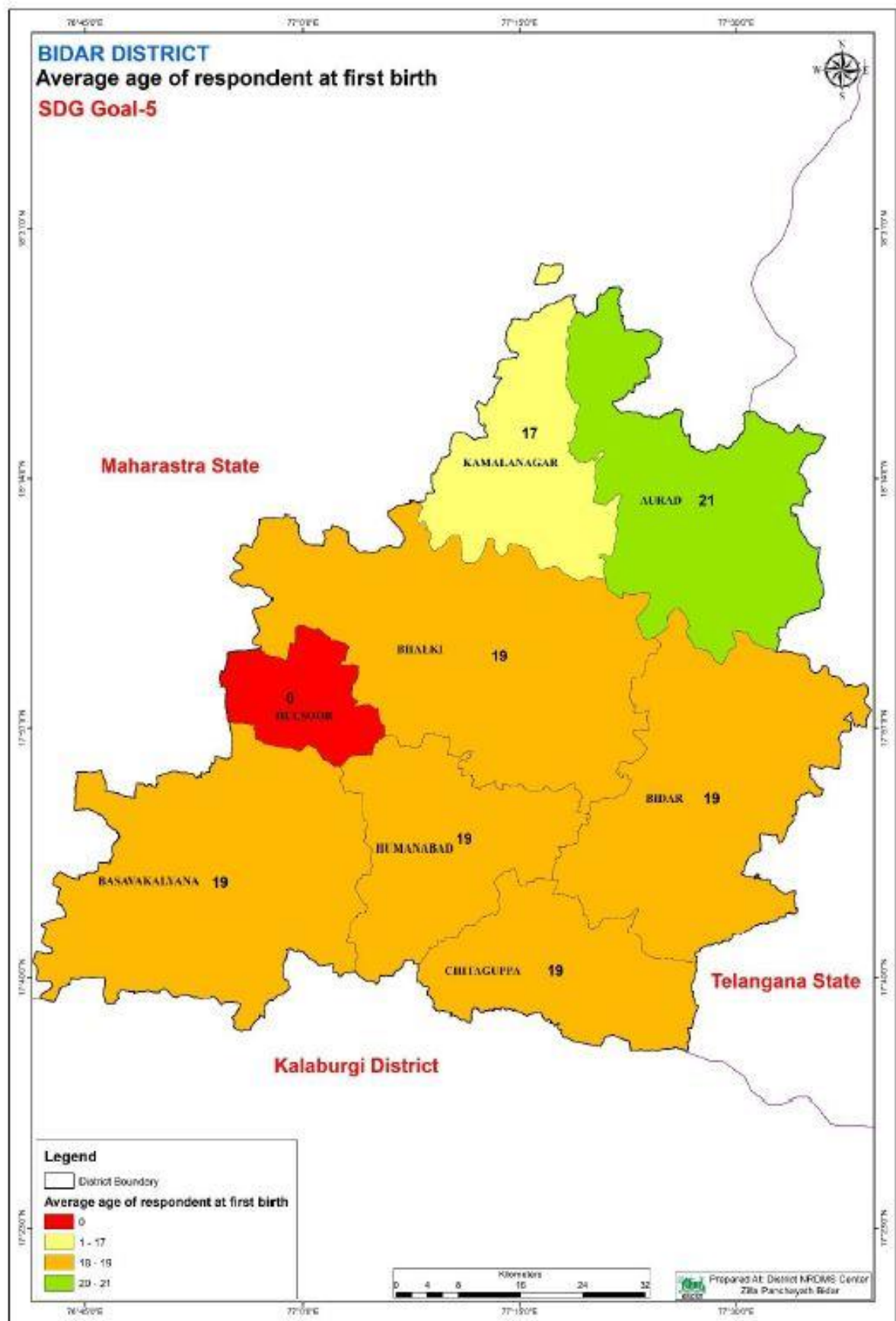


Activity -11

Title of work	Mapping of HDI indexes
Department Name	Zilla Panchayat , Bidar
Objectives	Helps in assess, track, and guide progress toward improving people's lives and achieving sustainable development ,Shows how progress in one area of human development, such as improved health or education, to the achievement of specific SDGs, such as poverty reduction or gender equality, Literacy rate and infant mortality rate.
Data Used	Taluk Boundary, Village Boundary ,SDG Index ratio
Type of Data Provided	Provided Pdf Maps



Map-12



6. Training Programmes Attended:

1. Attended 1 day workshop conducted by EMPRI on 22/04/2025 at Bidar 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.

7. Training Imparted to Line Department:

1. Provided training to Education department staff for Capturing correct GPS locations of School location.
2. Provided training to Forest department staff regarding KGIS Portal for Road Side Plantation.

8. Science Outreach Activities:

No Science Outreach Activities were conducted during this period.

9. 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, Police Department and other line department, pertaining to implementation of various activities.

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.

10. Annexures:

List of Tables:

Table 1: Showing administrative details of Bidar district

Table 2: Location of Tanks Ownership of Tanks area more than 2.25ha

Table 3: Property ID and Block ID

Table 4: Village wise TB cases per Thousand Population

Table 5: MI tanks and Percolation Tanks with Village name and Tank Area

Table 6: Hobli wise Rain Gauge wise Pre Manson Rainfall

Table 7: Roads Type, Road wise Length and Nomenclature

List of Maps:

Map 1: Location map of Bidar District.

Map 2: Location Map of Tanks

Map 3: Property ID ,Block ID and Asset Mapping

Map 4: Village wise TB Cases Per Thousand Population

Map 5: MI Tanks and Percolation Location

Map 6: Police Station Jurisdiction and Beat System

Map 7: Pre Manson Rainfall map and Ground Water Level

Map 8: Updated Roads Map

Map 9: NDPS Substance Hotspot (Heat) Location Map

Map 10: Location of KREIS Schools, Government High Schools, Special Schools and Health Facility

Map 11: Multi Village Scheme of Drinking water

Map 12: Sustainable Development Goals and HDI index Map.