

NATURAL RESOURCES DATA MANAGEMENT SYSTEM (NRDMS)

MONTHLY ACTIVITY REPORT April - July 2025

Submitted by
District NRDMS Centre
Zilla Panchayat,
Vijayapura



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 the District:-

- **District Name:** Vijayapura Dist.
- **Division:** Belagavi Division
- **District Establishment Year:** 1 November 1956
- **Headquarters:** Vijayapura
- **Current Chief Planning Officer:** Shri. Chandrakanth B Kumbar
- **Current Chief Executive Officer:** Shri. Rishi Anand IAS

2) NRDMS Background of the District:-

The NRDMS Centre for Vijayapura district was established on 1993-1994 at the office of Zilla Panchayat, Vijayapura. This Centre is implemented by Karnataka State Council for Science and Technology, Bangalore. The main Objectives of the center is to develop, demonstrate methods/techniques and tools for operationalizing the concept of "Decentralized (Local level) Planning" using geospatial technologies and to create the digital database on Natural Resources, Demography, Agro and Socio economy and infrastructure facilities of the district to provide analyzed information to the district administrators for DSS, like Zilla Panchayat, DC office, Election Dept. & line Departments etc.

3) Geographical Features:-

- **Location and Boundaries:-**

Bijapur, officially known as Vijayapura, is the district headquarters of Bijapur District of Karnataka state. The district is bounded by

Solapur district on the North and Sangali on the North-West, Belgaum district on the West, Bagalkot on the South, Gulbarga on the East and by Raichur on the South-East. Bijapur, one of the popular heritage cities in Karnataka, is also one of the top ten populated cities in Karnataka. Bijapur city was declared as one of the corporations in the state of Karnataka in 2013. The district has a total geographical area of 10,541 sq kms and urban population as per 2011 census was 326,000, Density 3,200/km² (8,300/sq mi) perhaps the 9th biggest city in Karnataka. Vijayapura Mahanagara Palike (VMP) is the newest Municipal Corporation formed under the KMC act, along with Shimoga and Tumkur Municipal Corporations.

Vijayapura district belongs to the Belagavi Division of Karnataka. It is made up of two sub-divisions. The **Vijayapura** sub-division includes **Vijayapura, Basavan Bagewadi, Muddebihal, Babaleshwar, Tikota, Talikoti, Kolhar** and **Nidagundi** Taluk. **Indi** sub-division consists of **Indi, Sindagi, Devar Hipparagi, Chadachan**

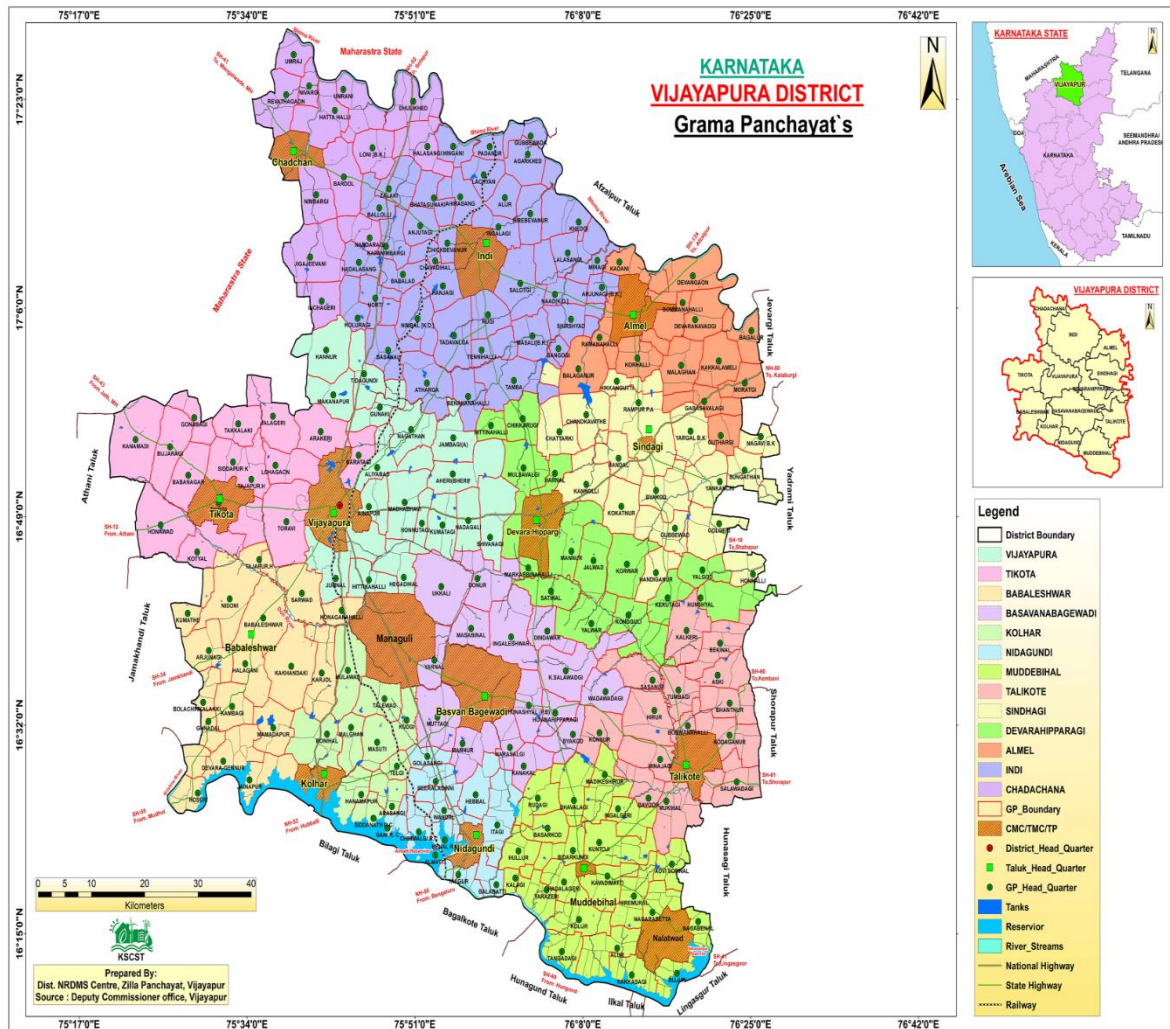
- **Geographical Coordinates:**

The present Vijayapura district is located between latitudes of 15 ° 50' to

17 ° 28' North and longitudes of 74 ° 54 to 76 ° 28' East at an average altitude of 458 M MSL

Name	Area Sq KM	Centroid/Mid-Point Latitude	Centroid/Mid-Point Longitude
Vijayapur	10,508	16.7958334	75.9534945

Bounding Box Maximum Latitude	Bounding Box Maximum Longitude	Bounding Box Minimum Latitude	Bounding Box Minimum Longitude
17.4805449	76.4721068	16.1508885	75.3350176



- **Topography:**

Bijapur (Vijayapura) is located in the northern maidan region of Karnataka, characterized by plains and a mostly level surface. The area is situated between the Krishna and Bhima rivers, and the topography is gently sloping, with several other rivers like the Doni, Ghataprabha, and Malaprabha flowing through the district

Bijapur has a semi-arid climate. It is located at 16°50'N 75°42'E / 16.83°N 75.7°E / 16.83; 75.7. It has an average elevation of 606 metres (1988 ft). The district has two types of soil. First one is, "deep black soil" (or yeari bhoomi), which is good for the crops like jawar, wheat, pulses, sunflower, etc. The major portion of the district consists of this kind of soil which has a great moisture-holding capacity. Second one is "red soil" (or masari /maddi bhoomi), which is generally poor, good for irrigation and horticulture. Krishna river, which is the most important river of the district. It flows about 125 miles in the district. A dam is built across the river at Almatti, Bhima river flows in northern part of district for about 20 miles. It overflows in the rainy season and spreads over a wider area, which is thereby rendered extremely fertile land. In central part of district Doni river flows.

Average elevation: 590 m Minimum elevation: 490 m Maximum elevation: 670 m

- **Climate:**

The climate of Bijapur district is generally dry and healthy. In summer, especially in April and May, it is very hot; at that time the temperature lays between 40-degrees Celsius to 42-degrees Celsius. In the winter season, from November to January, the temperature is between 15-degrees Celsius to 20-degrees Celsius. Usually the district has dry weather, so the humidity varies from 10% to 30%. The district has 34 rain gauge stations. The average annual rainfall for the whole district is 552.8 mm, with 37.2 rainy days. The monsoon generally reaches the district by June and lasts till October. Though the total rainfall is not high, the district benefits both from the south-west and the north-east monsoons. The annual rainfall varies from place to place within the district

Source: [India](#)

[Meteorological Department](#)

Climate data for Bijapur (1991–2020, extremes 1901–2020)													
Month	Jan	Feb	Mar	Apr	Ma y	Jun	Jul	Au g	Se p	Oct	No v	De c	Yea r
Record high °C (°F)	39.4 (102.9)	41.1 (106.0)	41.9 (107.4)	43.3 (109.9)	44.9 (112.8)	43.0 (109.4)	36.9 (98.4)	36.5 (97.7)	37.4 (99.3)	37.3 (99.1)	35.0 (95.0)	34.6 (94.3)	44.9 (112.8)
Mean daily maximum °C (°F)	30.7 (87.3)	33.5 (92.3)	36.8 (98.2)	38.8 (101.8)	39.1 (102.4)	33.6 (92.5)	30.9 (87.6)	30.6 (87.1)	31.2 (88.2)	31.4 (88.5)	30.5 (86.9)	29.8 (85.6)	33.1 (91.6)
Mean daily minimum °C (°F)	15.3 (59.5)	17.4 (63.3)	21.2 (70.2)	23.8 (74.8)	23.9 (75.0)	22.6 (72.7)	22.0 (71.6)	21.5 (70.7)	21.4 (70.5)	20.6 (69.1)	17.7 (63.9)	14.6 (58.3)	20.3 (68.5)

Record low °C (°F)	6.4 (43.5)	8.9 (48.0)	11.2 (52.2)	15.8 (60.4)	17.8 (64.0)	17.2 (63.0)	16.1 (61.0)	16.7 (62.1)	16.1 (61.0)	11.8 (53.2)	5.6 (42.1)	6.0 (42.8)	5.6 (42.1)
Average rainfall mm (inches)	2.0 (0.08)	1.0 (0.04)	7.3 (0.29)	27.2 (1.07)	46.7 (1.84)	100.8 (3.97)	78.6 (3.09)	92.9 (3.66)	134.7 (5.30)	132.0 (5.20)	19.5 (0.77)	4.7 (0.19)	647.4 (25.49)
Average rainy days	0.1	0.1	0.9	1.7	3.5	5.6	5.6	6.1	7.8	6.0	1.5	0.3	39.1
Average relative humidity (%) (at 17:30 IST)	35	29	26	28	33	57	66	65	63	56			

Natural Resources:

➤ Forest:

Vijayapura district has one of the smallest forest areas in Karnataka, with its recorded forest area being around 8,111 hectares. However, efforts have been made to improve the forest cover, including the recent declaration of the Mamadapur reserved forest as a Shri Siddeshwara Swamiji Biodiversity Heritage Site in October 2024. The district is characterized by dry deciduous and scrub forests and has recently been transformed from an arid to a greener region through a large-scale tree plantation drive.

➤ Minerals:

Vijayapura district in Karnataka, India, has minerals including calcite and granite, though it is more known for its agricultural products like maize, jowar, toor dal, cotton, and sugarcane. For specific information on minerals and mining activities in the region, one can contact the Department of Mines and Geology or the District Mineral Foundation Trust (DMFT) in Vijayapura.

➤ Soil:

The district has two types of soil. First one is, "deep black soil" (or yeari bhoomi), which is good for the crops like jawar, wheat, pulses, sunflower, etc. The major portion of the district consists of this kind of soil which has a great moisture-holding capacity. Second one is "red

soil" (or masari /maddi bhoomi), which is generally poor, good for irrigation and horticulture.

- **Major Rivers/Water Sources :**

Vijayapura's primary water source is the Krishna River, which is drawn from the Almatti reservoir to fill various tanks and lakes such as the Bhutnal tank, Begum Talab, and Mamadapur Lake to meet drinking water and irrigation needs. The Doni River also flows through the district, though its water is brackish and prone to erratic flooding due to siltation, causing damage to crops.

DATABASE STATUS FOR THE YEAR 2025-2026

Status Code : Meaning

CC : Computerized.
 ND : Not Digitized
 NA : Not Procured
 NR : Not Relevant
 NF : Not Finalized

Name : Chandrashekhar K Gund
 Name of the District Centre : Vijayapur
 Database status as on date : 30/06/2025
 Year of Establishment : 1992-93

SPATIAL DATABASE

Sector / Subsector	Scale	Source	Survey / Publn. Year	Area covere d	Status Code	File Format
1. Natural Resources						
<i>Land</i>						
1. Topography						
Contour Map					NA	
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	1:50,000	KRSAC		District	CC	.shp
Structural features	1:50,000	KRSAC		District	CC	.shp
4. Mineral Resources		KRSAC			NA	
5. Geomorphology	1:50,000	KRSAC		District	CC	.shp
6. Land use	1:50,000	KRSAC		District	CC	.shp
7. Waste Lands		KRSAC			NA	
8. Soils	1:50,000	NBSS & LUP		District	CC	.shp
9. Forest & Wildlife						
Forest type		KFD			NA	
Crown					NA	

Density						
Forest Category					NA	
Forest admn.		SOI			NA	
Wild Life					NA	
Water						
1.Ground water						
Hydro Geology	1:50,000	MGD		District	CC	.shp
Hydro chemistry		ZP			NA	
Ground water budget					NA	
2.Surface water						
Drainage	1:50,000	MGD		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	KRSAC		District	CC	.shp
District boundary	1:50,000	KRSAC		District	CC	.shp
Current popln. distbn.					CC	.Xcel
Literacy						
Levels of education					CC	.Xcel
Occupation						
Village boundary	1:50,000	KRSAC		District	CC	.shp
Employment						
District scenario					NA	
Employment					NA	

exchange						
Assets & Expenditure						
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						
Minor irrigation						
Canals		DLR & SS			NA	
Tube wells		DLR & SS			NA	
Dug wells		DLR & SS			NA	
Tanks	1:50,000	DLR & SS (KRSAC)		District	CC	.shp
Lift irrigation		DLR & SS			NA	

<i>Major irrigation</i>						
Reservoirs		DLR & SS			NA	
Anicuts		DLR & SS			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		DLR & SS			NA	
Telecommunication		DLR & SS			NA	
Drinking water		DLR & SS				
Educational facilities	1:50,000	DDPI		District	CC	.shp
Electricity		Land Records			NA	
Financial institutions		DLR & SS			NA	
Markets		DLR & SS			NA	
Health	1:50,000	DHO		District	CC	.shp
NGO's		DLR & SS			NA	
Tourism	1:50,000	KSTDC		District	CC	.shp
Transport	1" = ...miles	PWD			NA	

6.Miscellaneous						
District map with taluks	1" =... miles	DLR & SS		District	CC	.shp
District & taluk boundaries	1:50,000	SOI		District	CC	.shp
District map with hoblies	1: =.. miles	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 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	.Xls
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				CC	.Xls
Current popln. distbn.	DES			CC	.Xls
Literacy					File Format
Levels of education				CC	.Xls
Occupation					
Village boundary	DES			CC	.Xls
Employment					
District scenatio	EO			CC	.Xls
Employment exchange	EO			CC	.Xls
Assets & Expenditure					
Migration				NA	
Destitutes				NA	

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

activity					
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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			NA	
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			CC	.Xls
Educational facilities	DDPI			CC	.Xls
Electricity	Census			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			NA	
Incidence of diseases	AHVS			NA	
Anganwadi	D W&C			CC	.Xls

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

NRDMS Centre Activities (April 2025 - July 2025)

