



राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)



पर्यावरण नियोजन एवं समन्वय संगठन
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी
भोपाल-462016 (म.प्र.)

वेबसाइट- <http://www.mpseiaa.nic.in>

दूरभाष नं. - 0755-2466970, 2466859

No: 1068 / SEIAA/2023

Date: 8/8/23

प्रति,

कलेक्टर

जिला - जबलपुर (म.प्र.)

विषय: संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर रेत खनिज (संशोधित)


राज्य स्तरीय समाघात निर्धारण प्राधिकरण की 797^{वीं} बैठक दिनांक 01.08.2023 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 657^{वीं} बैठक दिनांक 11.07.2023 में जबलपुर जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (रेत खनिज) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

"..... प्रस्तुत संशोधित जिला सर्वेक्षण रिपोर्ट रेत खनिज (संशोधित) समिति के समक्ष प्रस्तुत की गई थी जिसको समिति द्वारा मान्य किया गया एवं संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर रेत खनिज (संशोधित) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु अनुशंसा सहित राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित किया जाये। "

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 657^{वीं} बैठक दिनांक 11.06.2023 के अनुमोदन प्रस्ताव को मान्य करते हुए जबलपुर जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (रेत खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदनुसार जिला कलेक्टर, जबलपुर को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

उपरोक्त निर्णयानुसार कृपया संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर रेत खनिज (संशोधित) जिला पोर्टल पर अपलोड करने का कष्ट करें। सुलभ संदर्भ हेतु अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट की साफ्टकॉपी ई-मेल के माध्यम से आपकी ओर प्रेषित है।


% (मुजीबुरहमान खान)
सदस्य सचिव


क्र.. 1069

/SEIAA/2023 भोपाल

दिनांक 8/8/23

प्रतिलिपि :-

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल की ओर कृपया सूचनार्थ ।
2. संचालक, प्रशासन/तकनीकी, संचालनालय, भौमिकी तथा खनिकर्म, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल (म.प्र.)
3. सदस्य सचिव, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5, अरेरा कॉलोनी, भोपाल (म.प्र.) - 462016 की ओर सूचनार्थ।


% सदस्य सचिव



657
117

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)



पर्यावरण नियोजन एवं समन्वय संगठन
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी
भोपाल-462018 (म.प्र.)
वेबसाइट- <http://www.mpseiaa.nic.in>
दूरभाष नं. - 0755-2466970, 2466859
No: 739 / SEIAA/2023
Date: 23/6/23

प्रति,

कलेक्टर
जिला - जबलपुर (म.प्र.)

विषय: संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर (रित खनिज)

संदर्भ: आपका पत्र क्र. 369 दिनांक 08.06.2023

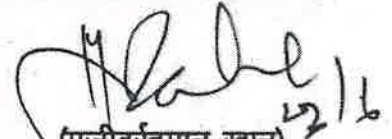
राज्य स्तरीय समाघात निर्धारण प्राधिकरण की 793^{वीं} बैठक दिनांक 21.06.2023 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 650^{वीं} बैठक दिनांक 08.06.2023 में जबलपुर जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (रित खनिज) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

.....अतः समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर (रित खनिज) की जिला सर्वेक्षण रिपोर्ट (रित खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित किया जाये।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 650^{वीं} बैठक दिनांक 08.06.2023 के अनुमोदन प्रस्ताव को मान्य करते हुए जबलपुर जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (रित खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदनुसार जिला कलेक्टर, जबलपुर को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

उपरोक्त निर्णयानुसार कृपया संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर (रित खनिज) जिला पोर्टल पर अपलोड करने का कष्ट करें। सुलभ संदर्भ हेतु अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट की साफ्टकॉपी ई-मेल के माध्यम से आपकी ओर प्रेषित है।


(मुजीबुरहमान खान)
सदस्य सचिव

क्र.. /SEIAA/2023 भोपाल दिनांक
प्रतिलिपि :-

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल की ओर कृपया सूचनार्थ ।
2. संचालक, प्रशासन/तकनीकी, संचालनालय, भौमिकी तथा खनिकर्म, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल (म.प्र.)
3. सदस्य सचिव, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5, अरेरा कॉलोनी, भोपाल (म.प्र.) - 462018 की ओर सूचनार्थ।

सदस्य सचिव



राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)



पर्यावरण नियोजन एवं समन्वय संगठन
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी
भोपाल-462016 (म.प्र.)

वेबसाइट- <http://www.mpseiaa.nic.in>

दूरभाष नं. - 0755-2466970, 2466859

No: / SEIAA/2023

Date:

प्रति,

कलेक्टर

जिला - जबलपुर (म.प्र.)

विषय: संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर (रित खनिज)

संदर्भ: आपका पत्र क्र. 369 दिनांक 08.06.2023

राज्य स्तरीय समाघात निर्धारण प्राधिकरण की 793^{वीं} बैठक दिनांक 21.06.2023 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 650^{वीं} बैठक दिनांक 08.06.2023 में जबलपुर जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (रित खनिज) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

अतः समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर (रित खनिज) की जिला सर्वेक्षण रिपोर्ट (रित खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित किया जाये।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 650^{वीं} बैठक दिनांक 08.06.2023 के अनुमोदन प्रस्ताव को मान्य करते हुए जबलपुर जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (रित खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदनुसार जिला कलेक्टर, जबलपुर को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

उपरोक्त निर्णयानुसार कृपया संशोधित जिला सर्वेक्षण रिपोर्ट जिला- जबलपुर (रित खनिज) जिला पोर्टल पर अपलोड करने का कष्ट करें। सुलभ संदर्भ हेतु अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट की साफ्टकॉपी ई-मेल के माध्यम से आपकी ओर प्रेषित है।

(मुजीबुर्रहमान खान)

सदस्य सचिव

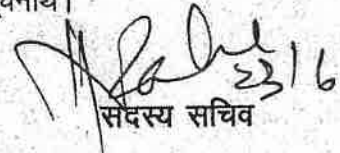
क्र. 740

/SEIAA/2023 भोपाल

दिनांक 23/6/23

प्रतिलिपि :-

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल की ओर कृपया सूचनार्थ।
2. संचालक, प्रशासन/तकनीकी, संचालनालय, भौमिकी तथा खनिकर्म, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल (म.प्र.)
3. सदस्य सचिव, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5, अरेरा कॉलोनी, भोपाल (म.प्र.) - 462016 की ओर सूचनार्थ।


सदस्य सचिव

कार्यालय कलेक्टर (खनिज शाखा) जिला जबलपुर (म.प्र.)

क्रमांक 369/खनिज/2023-24

जबलपुर, दिनांक 8/6/2023

प्रति,

सदस्य सचिव
राज्य विभाजन मूल्यांकन समिति
भोपाल (म.प्र.)

विषय:- संशोधित जिला सर्वेक्षण रिपोर्ट (रेत खनिज) का अनुमोदन बावत।

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उपरोक्त विषयांतर्गत लेख है कि मध्यप्रदेश शासन खनिज साधन विभाग के मंशाअनुरूप जिले की रेत खदानों के समूह का गठन मौका निरीक्षण किया जाकर नये सिरे से किया गया है। जिससे रेत खदानों के अक्षांश-देशांश, खनिज मात्रा तथा खदानों के रकबे में परिवर्तन हुआ है तथा 05 खदानें कम हुई हैं।

जिसके कारण जबलपुर जिले की पूर्व से अनुमोदित जिला सर्वेक्षण रिपोर्ट (रेत खनिज) में उल्लेखित रेत खदानों के अक्षांश-देशांश, खनिज मात्रा, खदानों गहराई, खसरा व रकबे में परिवर्तन तथा 05 खदानें कम की जाकर संशोधित/अनुमोदित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर दिनांक 25/05/2023 को आमजन के दावे/आपत्ति हेतु अपलोड किया गया है।

उपरोक्त के संबंध में आज दिनांक तक कोई दावा/आपत्ति प्राप्त नहीं हुई है। नियत अवधि में जिला सर्वेक्षण रिपोर्ट के संबंध में आमजन द्वारा कोई आपत्ति/दावे प्राप्त होते हैं तो जिला सर्वेक्षण रिपोर्ट में सुधार किया जाकर पुनः प्रस्तुत की जावेगी। अतः गठित कमेटी द्वारा संशोधित तैयार/अनुमोदित जिला सर्वेक्षण रिपोर्ट की प्रति संलग्न कर अनुमोदन हेतु सादर प्रेषित है।

खनि अधिकारी
जिला जबलपुर म.प्र.

पृ. क्रमांक / /खनिज/2023-24
प्रतिलिपी:-

जबलपुर, दिनांक / /2023

1. सदस्य, सचिव, राज्य पर्यावरण प्रभाव आंकलन प्राधिकरण भोपाल म.प्र. की ओर अग्रिम कार्यवाही हेतु सूचनार्थ।

खनि अधिकारी
जिला जबलपुर म.प्र.

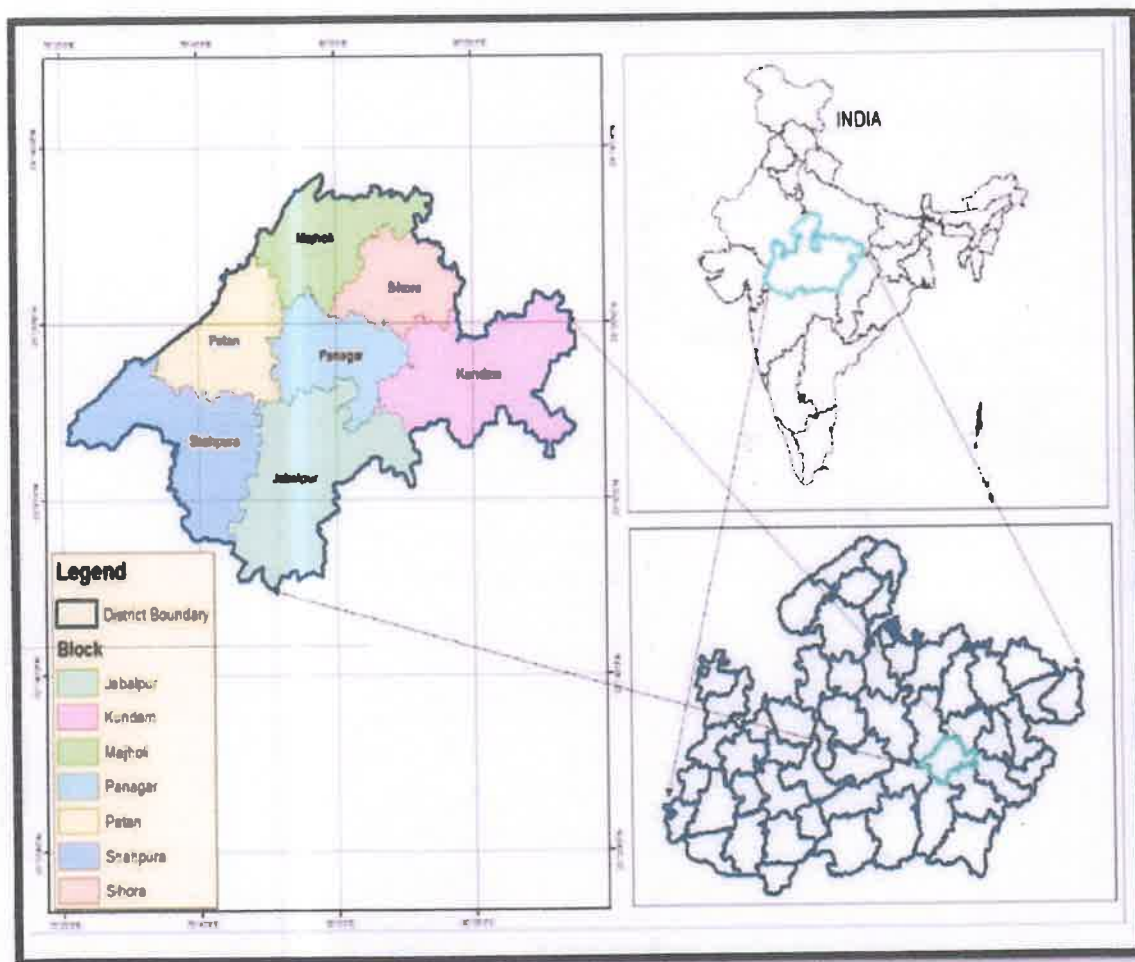
State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Parvavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

DSR: DISTRICT SURVEY REPORT

FOR RIVER SAND MINING

DISTRICT - JABALPUR

STATE – MADHYA PRADESH



IN PURSUANCE TO THE GAZATTE NOTIFICATION, MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE (MoEF & CC), THE GOVERNMENT OF INDIA NOTIFICATION Dated, 25 July 2018.

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District Survey Report: Jabalpur

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1 Introduction

In pursuance to the Gazette Notification, Ministry of Environment, Forest and Climate Change (MoEF& CC), the Government of India Notification No S.O. 141 (E) Appendix-X, Dated 15.01.2016 & S.O. 3611 (E) New Delhi, 25th July 2018 laid procedure for preparation of District Survey Report of sand mining or river bed mining. The main purpose of preparation of District Survey Report (DSR) is to identify the Sand resources and developing the sand mining activities along with other relevant data of the district.


The process of making a DSR includes:


- Collection of baseline data from the department
- Development of related maps from satellite and secondary sources
- Understanding river flows and sedimentation vis-à-vis sand mining
- Tabulation and mapping of existing sand mining locations and yield
- Correlation with satellite data for pre and post monsoon sand yield
- Suggesting new locations for sand mining approvals
- Design and Development of DSR as per MoEF guidelines
- Interaction with line department for data / document ownership

Guidelines to Monitor Sand Mining

For the first time, the Ministry of Environment, Forests and Climate Change (MoEFCC) has released guidelines to monitor and check illegal sand mining in the country.

- Sustainable Sand Management Guidelines (SSMG), 2016 focuses on the management of sand mining, but there was a need to have guidelines for effective enforcement of regulatory provisions and their monitoring.
- The 2020 guidelines are to be enforced simultaneously with the SSMG, 2016, in case of conflict; the new set will hold legal precedence. The Mines and Minerals (Development and Regulation) Act, 1957 has empowered state governments to make rules to prevent illegal mining, transportation and storage of minerals.
- However, there were a large number of illegal mining cases in the country and in some cases, many of the officers lost their lives while executing their duties to curb illegal mining.


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- Illegal and uncontrolled illegal mining also leads to loss of revenue to the State and degradation of the environment.

Enforcement and Monitoring Guidelines for Sand Mining 2020

The fair and rapid advancement of technology in country has enabled surveillance and remote monitoring in the field of mining for the effective monitoring of the mining activities, particularly, sand mining. States are now utilizing remote sensing to prevent illegal mining. Rules have been made to prevent illegal mining, transportation and storage of minerals but in the recent past, it has been observed that there was large number of illegal mining cases in the country and in some cases, many of the officers lost their lives while executing their duties for curbing illegal mining incidence. The illegal and uncontrolled illegal mining leads to loss of revenue to the State and degradation of the environment. Thus, an effective policy for monitoring of sand mining in the Country has been enforced focusing on the effective monitoring of the sand mining since from the identification of sand mineral sources to its dispatch and end-use by consumers and the general public.

- **Source to Destination Monitoring:** The new set of guidelines focuses on the effective monitoring of sand mining from the identification of sand mineral sources to its dispatch and end-use by consumers and the general public and look at a uniform protocol for the whole country.
- **Constantly monitor mining with drones and night surveillance of mining activity through night-vision drones.**
- **Audits:** States to carry out river audits and put detailed survey reports of all mining areas in the public domain.
- **Transparency:** Online sales and purchase of sand and other riverbed materials (RBM) for transparency in the process.
- **Enforcement:** It gives directions to states to set up dedicated task forces at district levels.
- **In cases where rivers become district boundaries or state boundaries, the districts or states sharing the boundary shall constitute the combined task force for monitoring of mined materials, mining activity and participate in the preparation of District Survey Reports (DSR) by providing appropriate inputs.**


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- Sustainability: Conduct replenishment study for river bed sand in order to nullify the adverse impacts arising due to excessive sand extraction.
- While the Sustainable Sand Mining Guidelines, 2016, require the preparation of District Survey Reports (DSR), which is an important initial step before grant of mining lease, the government has found that the DSRs carried out by state and district administrations are often not comprehensive enough, allowing space for illegal mining.


Surrounding Districts


Jabalpur District is a district of Madhya Pradesh state in central India. The city of Jabalpur is the administrative headquarters of the district. Jabalpur District is located in the Mahakoshal region of Madhya Pradesh, on the divide between the watersheds of Narmada and the Son, but mostly within the valley of the Narmada, which here runs through the famous gorge known as the Marble rocks, and falls 30 ft. over a rocky ledge (the Dhuan dhar, or misty shoot). The district is bounded in the South east and east by Mandla & Dindori districts, in the south by Seoni and in the south West Narsingpur district and in the west by Damoh district. The district falls in survey of India Top sheet Nos. 55m, 64A- and 55 N on 1:250,000.

General Features

Table 1 Administrative Setup of the District

District.	TEHSIL	BLOCKS
Jabalpur	Jabalpur	Sihora
	Kundam	Majholi
	Majholi	Patan
	Patan	Shahpura
	Panagar	Panagar
	Sihora	Jabalpur
	Shahpura	Kundam
	Adhartal	
	Ranjhi	
Gorakhpur		
Total	10	7


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Location of the District

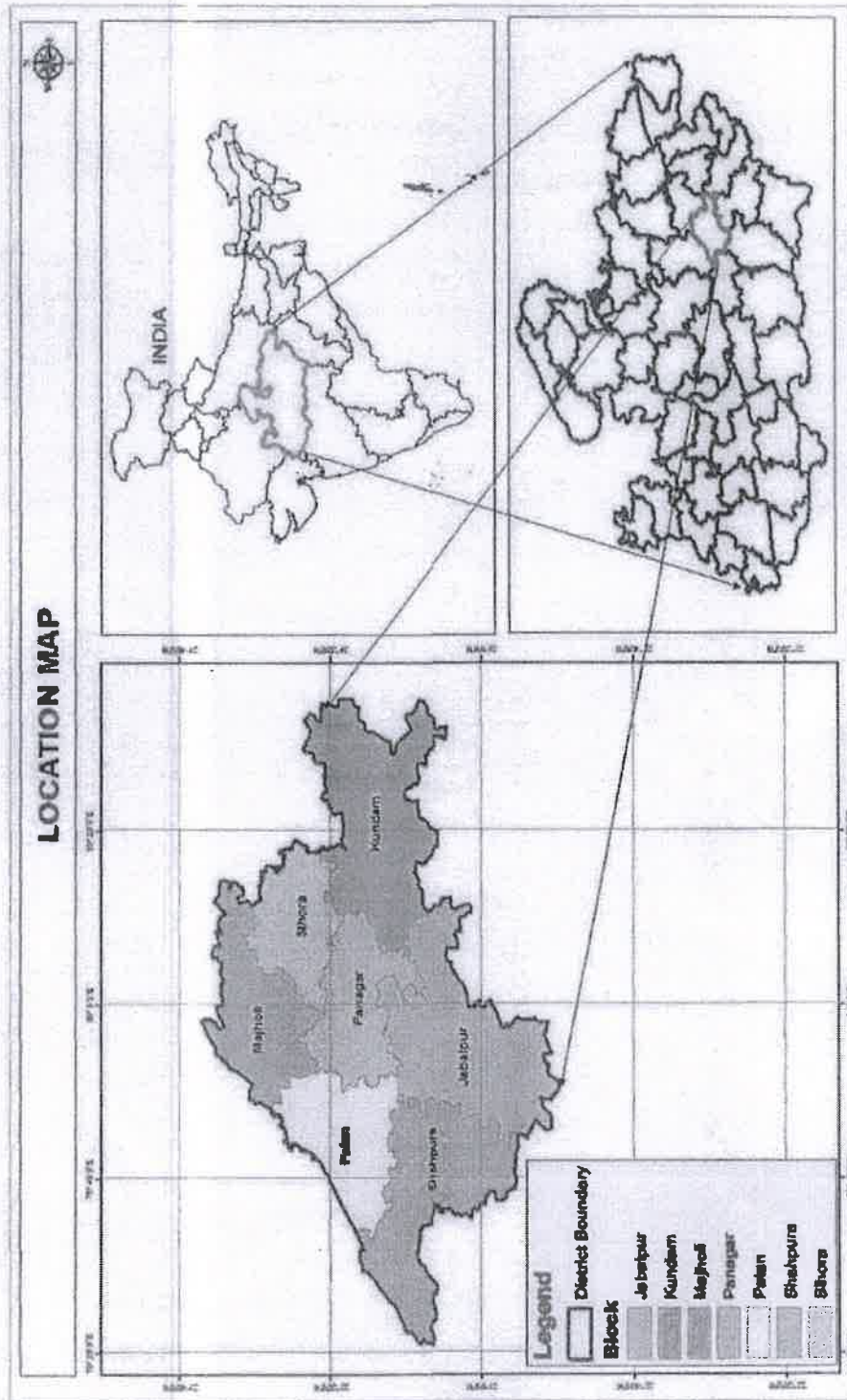




Figure 1 Location Map of the District


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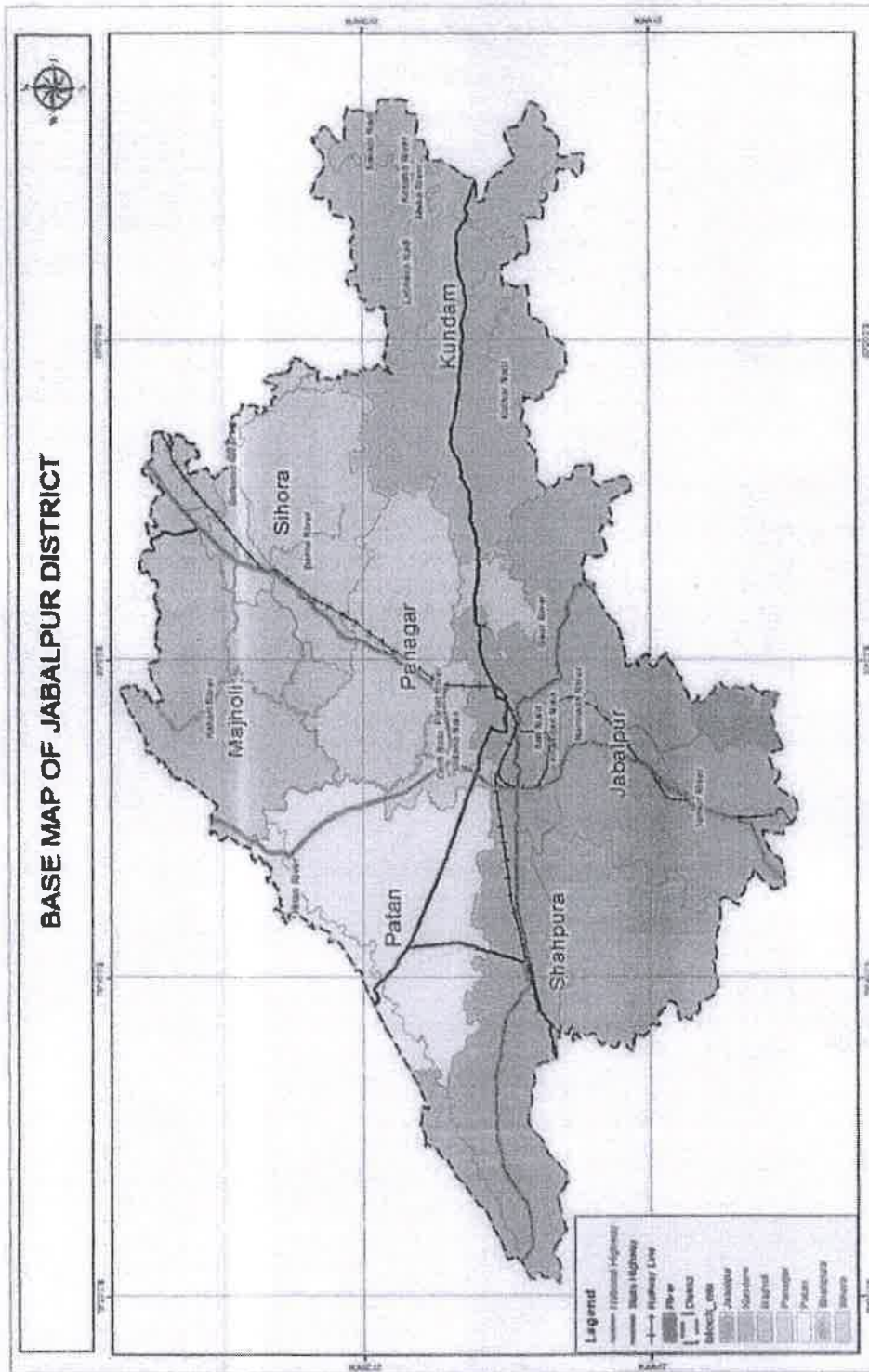


Figure 2 Base Map of the District

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2 Overview of Mining Activity in the District

Table 2 Minor Mineral Production in the District

Sr. No.	Mineral	Production in tones
1.	Stone Gitti	989632.23
2.	Murum	131880.01
1.	Soil	41661.6
2.	Bolder	18300
3.	Marbe	400
4.	Silica Sand	465
5.	Dolomite	86887.77
6.	Fireclay	31835
7.	Leterite	570958.7
8.	Ochre	11165.66
9.	Red Ochre	220
10.	Stone Gitti	989632.23
11.	Murum	131880.01
12.	Sand	2,88,728

Minor Mineral production in Cu.m

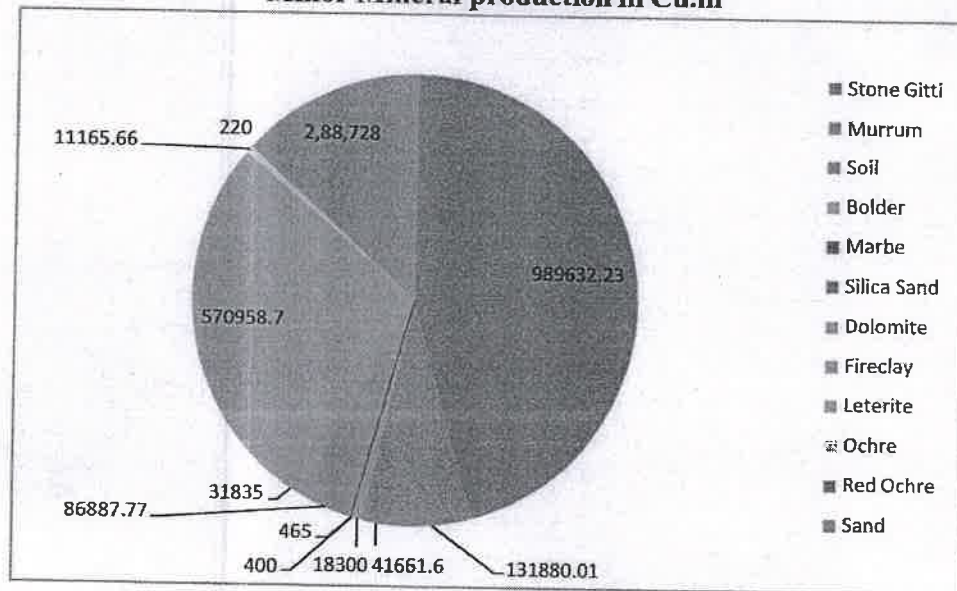


Figure 3 Minor Mineral production in the District


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The list of Sand Mining Leases in the District With Location, area and Period of Validity

Sr. No.	Lease period	Tehsil	Village(Name of Mine)	Khasra No.	Approved Area (Ha)/ Quantity in cum	Coordinate	
						BP. No.	LATITUDE LONGITUDE
1	..	Jabalpur	Sagda Jhapani	1	2.023/ 36414	A	23° 0'24.43"N 79° 55'29.50"E
						B	23° 0'25.65"N 79° 55'27.72"E
						C	23° 0'17.62"N 79° 55'22.33"E
						D	23° 0'16.51"N 79° 55'24.17"E
2	..	Jabalpur	Saliwada	464	4.000/ 60000	A	22° 59'41.15"N 79° 54'32.45"E
						B	22° 59'38.10"N 79° 54'32.93"E
						C	22° 59'32.51"N 79° 54'23.42"E
						D	22° 59'36.72"N 79° 54'20.88"E
3	..	Jabalpur	Reema	119	4.000/ 3000	1	22° 56'52.58"N 79° 51'17.29"E
						2	22° 56'51.39"N 79° 51'20.67"E
						3	22° 56'48.23"N 79° 51'20.09"E
						4	22° 56'42.64"N 79° 51'17.67"E
						5	22° 56'38.66"N 79° 51'17.55"E
						6	22° 56'39.75"N 79° 51'14.11"E


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BP. No.	LATITUDE	LONGITUDE
1	22°54'37.22"N	79°51'0.07"E
2	22°54'42.99"N	79°51'1.52"E
3	22°54'45.27"N	79°51'01.42"E
4	22°54'48.69"N	79°50'58.74"E
5	22°54'51.33"N	79°50'52.71"E
6	22°54'53.98"N	79°50'57.10"E
7	22°54'50.57"N	79°51'00.53"E
8	22°54'49.21"N	79°51'00.57"E
9	22°54'45.21"N	79°51'03.44"E
10	22°54'41.79"N	79°51'03.52"E
11	22°54'36.98"N	79°51'01.98"E

BP. No.	LATITUDE	LONGITUDE
1	22°57'49.36"N	79°54'25.67"E
2	22°57'50.25"N	79°54'28.72"E
3	22°58'8.13"N	79°54'24.64"E
4	22°58'7.43"N	79°54'19.92"E

BP. No.	LATITUDE	LONGITUDE
1	23° 9'31.09"N	80° 9'7.13"E
2	23° 9'34.43"N	80° 9'7.26"E
3	23° 9'32.13"N	80° 9'16.34"E
4	23° 9'30.19"N	80° 9'19.24"E
5	23° 9'16.58"N	80° 9'32.28"E
6	23° 9'15.81"N	80° 9'31.02"E
7	23° 9'29.03"N	80° 9'18.89"E
8	23° 9'30.78"N	80° 9'16.59"E


4	Jabalpur	Silwua	103	4,000/ 3000
5	Jabalpur	Para	436	6,500/ 2000
6	Jabalpur	Salaiya	241	4,000/ 2000


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7	Sihora	KhirhaniKaian	271	2,000/ 4000	9	23° 9'31.66"N	80° 9'14.44"E
					10	23° 9'31.71"N	80° 9'12.34"E
					11	23° 9'31.02"N	80° 9'9.01"E
8	Kundam	Ranipur	428	5,000/2000	BP. No.	LATITUDE	LONGITUDE
					1	23°25'25.89"N	80°16'28.57"E
					2	23°25'27.28"N	80°16'29.02"E
					3	23°25'24.24"N	80°16'36.24"E
					4	23°25'16.15"N	80°16'44.63"E
					5	23°25'15.63"N	80°16'43.73"E
6	23°25'23.31"N	80°16'35.35"E					
9	Kundam	Kalyanpur	121	2,900/7000	BP. No.	LATITUDE	LONGITUDE
					A	23° 8'02.62"N	80°09'51.64"E
					B	23° 8'06.15"N	80°09'51.64"E
					C	23° 8'11.72"N	80°09'53.63"E
					D	23° 8'11.21"N	80°09'56.91"E
					E	23° 8'02.49"N	80°09'54.94"E


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15	23° 8'27.63"N	79°32'7.44"E
16	23° 8'28.20"N	79°32'7.40"E
17	23° 8'28.18"N	79°32'4.84"E
18	23° 8'28.59"N	79°32'3.16"E
19	23° 8'27.79"N	79°32'2.53"E
20	23° 8'28.44"N	79°32'1.53"E
21	23° 8'29.15"N	79°31'59.93"E
BP. No.	LATITUDE	LONGITUDE
1	23° 6'18.93"N	79°24'54.74"E
2	23° 6'20.24"N	79°25'1.64"E
3	23° 6'19.43"N	79°25'2.28"E
4	23° 6'21.62"N	79°25'13.92"E
5	23° 6'17.80"N	79°25'16.55"E
6	23° 6'17.36"N	79°25'8.83"E
7	23° 6'15.71"N	79°24'56.39"E
BP. No.	LATITUDE	LONGITUDE
1	23° 6'24.63"N	79°21'20.49"E
2	23° 6'24.01"N	79°21'25.34"E
3	23° 6'25.24"N	79°21'25.44"E
4	23° 6'25.32"N	79°21'43.48"E
5	23° 6'25.76"N	79°21'44.07"E
6	23° 6'27.08"N	79°21'48.75"E
7	23° 6'26.61"N	79°21'48.82"E
8	23° 6'27.64"N	79°21'54.30"E
9	23° 6'28.10"N	79°21'54.45"E
10	23° 6'29.06"N	79°21'56.58"E

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Shahpura

Barbati

484

6.000/
8000

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17

Shahpura

Jugpura

124

12.785/
71500

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BP. No.	LATITUDE	LONGITUDE
1	23°15'9.08"N	79°34'5.69"E
2	23°15'7.13"N	79°34'6.54"E
3	23°15'5.90"N	79°34'5.14"E
4	23°15'4.21"N	79°34'4.51"E
5	23°15'2.40"N	79°34'5.03"E
6	23°14'59.40"N	79°34'7.26"E
7	23°14'58.89"N	79°34'8.29"E
8	23°14'57.97"N	79°34'9.26"E
9	23°14'53.72"N	79°34'12.45"E
10	23°14'52.07"N	79°34'13.42"E
11	23°14'51.98"N	79°34'11.86"E
12	23°14'52.65"N	79°34'11.65"E
13	23°15'1.27"N	79°34'4.49"E
14	23°15'4.63"N	79°34'3.57"E
15	23°15'7.90"N	79°34'4.76"E

BP. No.	LATITUDE	LONGITUDE
1	23°15'32.48"N	79°34'52.04"E
2	23°15'32.37"N	79°34'50.22"E
3	23°15'26.50"N	79°34'48.76"E
4	23°15'20.74"N	79°34'46.63"E
5	23°15'14.78"N	79°34'42.83"E
6	23°15'9.03"N	79°34'40.33"E
7	23°15'8.48"N	79°34'41.90"E
8	23°15'13.43"N	79°34'44.60"E
9	23°15'25.18"N	79°34'50.40"E

2,000/
4000

1

Malakhurd

Patan

26


4,000/
4000


188

Pondikhurd

Patan

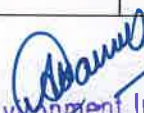
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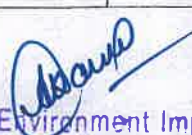
28	Patan	Kaimori	87	2.000/ 2000	BP. No.	LATITUDE	LONGITUDE
					1	23°23'38.81"N	79°44'4.57"E
					2	23°23'39.11"N	79°44'6.19"E
					3	23°23'36.36"N	79°44'6.98"E
					4	23°23'34.81"N	79°44'7.07"E
					5	23°23'26.71"N	79°44'10.69"E
					6	23°23'23.76"N	79°44'13.04"E
					7	23°23'22.63"N	79°44'12.49"E
					8	23°23'24.83"N	79°44'10.67"E
					9	23°23'27.59"N	79°44'8.90"E
10	23°23'34.22"N	79°44'5.91"E					
29	Patan	Chhituraha	1	2.000/ 10000	BP. No.	LATITUDE	LONGITUDE
					A	23° 21'25.21"N	79°42'53.38"E
					B	23° 21'26.40"N	79°42'54.08"E
					C	23°21'20.60"N	79°42'39.94"E
D	23° 21'20.19"N	79°42'40.75"E					
30	Patan	Gadaghat	1	2.000/4000	BP. No.	LATITUDE	LONGITUDE
					1	23°18'21.28"N	79°38'44.56"E
					2	23°18'23.76"N	79°38'43.52"E
					3	23°18'25.05"N	79°38'44.55"E
					4	23°18'35.01"N	79°38'46.66"E
					5	23°18'37.24"N	79°38'47.45"E
					6	23°18'39.16"N	79°38'49.03"E
					7	23°18'38.53"N	79°38'49.77"E
					8	23°18'36.10"N	79°38'48.33"E
					9	23°18'24.08"N	79°38'45.95"E
10	23°18'22.22"N	79°38'45.38"E					



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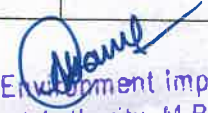
31	..	Patan	Mahukhedha	42	2.000/8000	BP. No.	LATITUDE	LONGITUDE
						A	23°19'30.58"N	79°41'16.36"E
						B	23°19'31.53"N	79°41'16.40"E
						C	23°19'30.40"N	79°41'37.19"E
						D	23°19'29.33"N	79°41'36.46"E
32	..	Patan	Amakhedha	1	0.800/4500	BP. No.	LATITUDE	LONGITUDE
						1	23°15'41.42"N	79°35'29.48"E
						2	23°15'42.47"N	79°35'30.56"E
						3	23°15'39.38"N	79°35'34.76"E
						4	23°15'38.10"N	79°35'33.64"E
5	23°15'40.85"N	79°35'29.92"E						
33	..	Patan	Joorikalan	2	6.000/5000	BP. No.	LATITUDE	LONGITUDE
						1	23°17'18.14"N	79°37'29.23"E
						2	23°17'18.25"N	79°37'28.09"E
						3	23°17'11.05"N	79°37'25.20"E
						4	23°17'9.44"N	79°37'18.60"E
						5	23°17'15.36"N	79°36'54.78"E
						6	23°17'11.66"N	79°36'32.18"E
						7	23°17'10.53"N	79°36'32.82"E
						8	23°17'14.22"N	79°36'54.78"E
						9	23°17'8.78"N	79°37'15.91"E
10	23°17'11.77"N	79°37'27.05"E						
34	..	Patan	Mandwa	86	2.00/4000	BP. No.	LATITUDE	LONGITUDE
						1	23°16'23.03"N	79°35'57.62"E
						2	23°16'24.72"N	79°35'59.82"E
3	23°16'28.11"N	79°36'3.16"E						



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								7	23°28'57.84"N	80°12'0.54"E
								8	23°28'57.78"N	80°11'59.69"E
37	..	Sihora	Deorikanhai	782	2.00/2000					
								BP. No.	LATITUDE	LONGITUDE
								A	23°24'35.25"N	80°16'55.05"E
								B	23°24'34.02"N	80°16'57.06"E
								C	23°24'43.49"N	80°16'56.03"E
								D	23°24'42.35"N	80°16'54.30"E
38	..	Majholi	Bindali	180	1.00/10000					
								BP. No.	LATITUDE	LONGITUDE
								1	23°26'45.39"N	79°49'54.27"E
								2	23°26'44.07"N	79°49'54.23"E
								3	23°26'45.89"N	79°49'45.41"E
								4	23°26'47.07"N	79°49'45.65"E
39	..	Majholi	Magarkata	191	1.000/3000					
								BP. No.	LATITUDE	LONGITUDE
								1	23°24'44.30"N	79°59'15.64"E
								2	23°24'45.12"N	79°59'15.62"E
								3	23°24'45.22"N	79°59'18.44"E
								4	23°24'44.64"N	79°59'28.55"E
								5	23°24'43.76"N	79°59'28.32"E
								6	23°24'44.11"N	79°59'21.88"E
								7	23°24'44.03"N	79°59'19.68"E
40	..	Majholi	Mandla	91/274	1.000/10000					
								BP. No.	LATITUDE	LONGITUDE
								A	23°25'8.55"N	79°56'57.23"E
								B	23°25'9.40"N	79°56'56.89"E
								C	23°25'5.50"N	79°56'49.52"E


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D	23°25'0.30"N	79°56'50.51"E
E	23°25'0.73"N	79°56'51.23"E
F	23°25'4.35"N	79°56'50.03"E

BP. No.	LATITUDE	LONGITUDE
1	23°25'15.12"N	79°57'9.88"E
2	23°25'16.59"N	79°57'11.91"E
3	23°25'18.29"N	79°57'13.35"E
4	23°25'21.04"N	79°57'17.16"E
5	23°25'21.52"N	79°57'17.02"E
6	23°25'24.08"N	79°57'20.84"E
7	23°25'25.05"N	79°57'21.02"E
8	23°25'26.66"N	79°57'22.49"E
9	23°25'26.64"N	79°57'23.30"E
10	23°25'24.69"N	79°57'23.62"E
11	23°25'19.59"N	79°57'16.35"E
12	23°25'15.47"N	79°57'12.75"E
13	23°25'14.13"N	79°57'10.31"E

BP. No.	LATITUDE	LONGITUDE
1	23° 6'48.02"N	79°22'40.26"E
2	23° 6'50.82"N	79°22'40.04"E
3	23° 6'51.47"N	79°22'42.91"E
4	23° 6'50.87"N	79°22'44.56"E
5	23° 6'51.29"N	79°22'46.24"E
6	23° 6'51.60"N	79°22'48.78"E
7	23° 6'49.49"N	79°23'3.91"E

41	Majholi	Khakhara	201	2.000/5000
42	Shahpura	Pawla	397	14.920/20000


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8	23° 6'47.43"N	79°23'7.96"E
9	23° 6'47.16"N	79°23'9.31"E
10	23° 6'44.80"N	79°23'12.72"E
11	23° 6'41.81"N	79°23'20.22"E
12	23° 6'42.40"N	79°23'20.89"E
13	23° 6'42.04"N	79°23'21.72"E
14	23° 6'39.03"N	79°23'19.30"E
15	23° 6'44.99"N	79°23'7.57"E
16	23° 6'47.33"N	79°23'0.83"E
17	23° 6'48.59"N	79°22'54.41"E
18	23° 6'48.57"N	79°22'45.97"E

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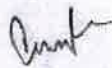
District Survey Report: Jabalpur


4 Details of Royalty and Revenue received in last three years for Sand Mine (2020-21, 2021-22 and 2022-23):

Year	Revenue (In Rs.)
2020-21	7,88,63,639
2021-22	14,73,93,023
2022-23	19,427,875

5 Details of Production in last three years for Sand Mine (2020-21, 2021-22 and 2022-23):

Year	Production (In Cu. Mt)
2020-21	20699.67
2021-22	3,31,777
2022-23	1,55,419


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CHAPTER-6

PROCESS OF DEPOSITION OF SEDIMENTS IN THE RIVERS OF THE DISTRICT:

Place of origin, Catchment area, Tributaries, General profile of river stream:

Narmada River

The Narmada River is a river flowing from east to west. It is the biggest flowing river to the west. The Narmada River is the only river in India, which runs in a rift valley running west amid the Vindhya and Satpura Mountain ranges despite the fact that the Mahi and Tapti River run through rift valleys but amid other mountain ranges. It runs through the states of Madhya Pradesh (1,077 km (669.2 mi)), Maharashtra, and (39 km (24.2 mi) boundary of Madhya Pradesh and Gujarat and in Gujarat (161 km (100.0 mi)).


The origin of the river is a tiny reservoir named as Narmada Kund, which is situated on the Amarkantak Hill in Anuppur District of East Madhya Pradesh at an elevation of 1,057 m (3,467.8 ft.)

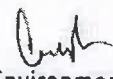
Jabalpur district lies at the Junction of the vindhyan and Satpura range and forms part of the great central watershed of India. The Narmada and its tributaries, the Hiran, Gaur drain the district. Chotimahanadi drains a very small area in the east, which is tributary of Son River falling in the Ganga basin. The general slope of the Narmada valley is towards west & of Hiran towards south west. The drainage in the district is generally of dendrite type except in the valley of Narmada, along the right banks of Hiran below Katangi where it is of the straight trunk & trellis pattern. The total length of the Narmada River in the district is about 110 km (*Ref. Ground water Information Booklet Jabalpur district Madhya Pradesh*)

The catchment area of the river, bordered by the Satpura and Vindhya Mountain Ranges, stretches over a territory of 98,796 km² (38,145.3 sq mi). It is situated between longitudes 72°32' and 81°45' east and latitudes 21°20' to 23°45' north, on the northern edge of the Deccan Plateau. The catchment area encompasses important regions in Madhya Pradesh, Gujarat, and Maharashtra.

The catchment area features five distinct geological area and they are as follows:

(1) The upper mountainous regions encompassing the district of Mandla, Shahdol, Balaghat, Durg, and Seoni.


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(2) The upper terrains encompassing the district of Narsimhapur, Jabalpur, Damoh Sagar, Hoshangabad, Chhindwara, Raisen, Betul, and Sehore.

(3) The central terrains encompassing a portion of west Nimar, the district of East Nimar, Indore, Dewas, and Dhar.

(4) The lower mountainous regions including portion of the west Nimar, Dhulia, Jhabua, Narmada, and portions of Vadodara.

(5) The lower terrains encompassing mostly the district of Bharuch, Narmada, and portion of Vadodara.

The mountainous areas are quite woody. The entire catchment area mostly comprises black soils.

Hiran River

Hiran River is the 2nd most important river of the Jabalpur district and the principal right bank tributary of Narmada River in the district. It originates near Kundam (23° 19'N-80° 21'E) near the SE boundary of the district. It takes a northern course for about basaltic terrain and turns towards west and flows to Katangi through a zigzag course crossing from south of Patan and Patan. From this point, it takes a SW direction and merges with Narmada between Sankal and Hirapur. Its main feeder stream is Belkund, Sohar, Kairnala (from the north) and Kadri and Pariyat (from the south). Amongst them, Pariyat is the principal affluent one. The river is about 190 km long. It is a rich source of sands and other associated aggregates as after entering into Narmada basin and sedimentary rocks of Vindhians and Gondwanas, carries and deposits a good load. Moreover, due to lithology of the course, the quality of Sand is also good one. A large tract of this river is utmost suitable for sand mining e.g near Patan, Patan and Katangi. The Hiran River catchment has area 4617.48 Sq. Km. The entire catchment is spread over Jabalpur district, Madhya Pradesh.

Gaur River

Gaur River is a important river of the Jabalpur district and the principal right bank tributary of Narmada river in the district. It originates near Niwas in Mandla district and forms the

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boundary with Mandla district for some distance. It runs towards north initially and then turns SW and join Narmada in the right bank at about 12 km south of Jabalpur. The total length of river is about 80 km of which about 50 km is in the district. It is a rich source of sands and other associated aggregates as after entering in to Narmada basin. Moreover, due to lithology of the course, the quality of sand is also good one.

The Gaur river catchment area is 4.0 sq. km in Jabalpur District, Madhya Pradesh.

Jabalpur district lies at the Junction of the vindhyan and Satpura range and forms part of the great central watershed of India. The Narmada and its tributaries, the Hiran, Gaur drain the district. Chotimahanadi drains a very small area in the east, which is tributary of Son River falling in the Ganga basin. The general slope of the Narmada valley is towards west & of Hiran towards south west. The drainage in the district is generally of dendrite type except in the valley of Narmada, along the right banks of Hiran below Katangi where it is of the straight trunk & trellis pattern. The total length of the Narmada River in the district is about 110 km

ii) Geology / Lithostratigraphy:

Jabalpur district is located almost in the central part of Madhya Pradesh and it is having 15% tribal population to the population of the district. The deposits of tale around Bharaghat near the Marble rocks on the Narmada River, about 13 miles west of Jabalpur are the best known. The district lies between the North latitude $22^{\circ} 49'$ and $23^{\circ} 07'$ North and meridian of longitude $79^{\circ} 21'$ and $80^{\circ} 35'$ East. The district is bounded in the South east and east by Manda & Dindori district, in the south by Seoni and in the south West Narsingpur district and in the west by Damoh district. The district falls in survey of India Top sheet Nos. 55M, 64A- and 55 N on 1:250,000 scale & occupies an over of 5655 Sqkm.

The district is often called as the Museum of Geology. It exhibits very widespectrum of rocks, ranging in age from Archaean to Pleistocene and recent period. The older metamorphic rocks comprising of granite gneiss with enclaves of amphibolites and schist, are exposed in the central part of the district. The vocano-sedimentary sequence of Mahkoshal group, trending in ENE-WSW direction, is exposed in the central and SW parts of the district. It comprises meta volcanic rocks, chemical precipitation and turbidites. Dolerite dykes, amphibolites, granites and quartz veins intrude these rocks. These intrisives exhibit a peculiar ENE-WSW trend. The intrusive MadanMahal granite occurs in the form of inselberg and

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conical hills near Jabalpur. Vindhyan supergroup is represented by kaimur, Rewa and Bhandar group which consist of sandstone, shale and glauconitic partings occur in the northern plateau and form of steep escarpments. Gondwara supergroup is represented by Jabalpur group and comprises of alternate beds of coarse and pebbly sandstone and clay and is exposed in the east, central and SW part of the district. The plant fossils are found within them. Lameta Group comprises of green glauconitic sandstone, grit, nodular siliceous limestone and clay in the SC parts of the district. Remains of Dinosaur fossils are encountered within it. Deccan trap Basalt form extensive plateau in the southern part and comprises of 14 to 22 flows. The quarternary sediments comprise mainly of clay and calcareous concretions. Tight isoclinal folding of Mahakoshals, intense deformation of Vindhyan along its contact with Mahakoshals and general broad shallow synclinal structures of Vindhyan are highlights of the structural features. The region is a part of Crumansonata zone and exhibit a regional trend of ENEWSW. The contact between Mahakoshals is faulted all along. It is intersected and inter veined by no. of minor faults and micro lineaments which trend in NNW-SSE to NW-SE direction.

iii) Climate Data & Annual Precipitation:

The climate of Jabalpur District M.P. characterized by a hot summer and general dryness except during the south west monsoon. The year may divide into seasons. The cold season December to February is followed by the hot season from march to about the middle of June. The period the middle of June to September is the south west monsoon season. October and November form the post monsoon or transition period. The normal maximum temperature received during the month of December is 90C. The normal annual means maximum and minimum temperature of Jabalpur District is 32.10C & 18.30C respectively. During the south west monsoon season the relative humidity generally exceeds 87% (August month.) In the rest of the year is drier. The driest part of the year is the summer season. When relative humidity's are less 27%. May is the driest month of the year. The wind velocity is higher during the pre-monsoon period as compared to post monsoon period. The maximum wind velocity 8.6 km/hr observed during the month of annual wind velocity of Jabalpur district is 5.3 km/hr.

Annual Precipitation:

The average annual rainfall of Jabalpur District is 1259.50 Jabalpur received maximum rainfall received during south west monsoon period i.e. June to September. About 90% of the

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annual rainfall received during monsoon season. Only 10% of the annual rainfall takes place between October to May period. Thus, surplus water for ground water recharge is available only during the south west monsoon period. (Ref. Ground water Information Booklet, Jabalpur district Madhya Pradesh)

iv) Erosion & Weathering:

Since the temperature variation during various in a year is quite considered high degree of weathering is likely to result. The rainfall being moderate, the potential of transportation of weathering material into the river is also moderate. Catchment area being an alluvium deposit it stands a good chance of getting weathered and eroded sand.

v) Sedimentation & Transportation:

In the context of stream sediment is inorganic and organic material that is transported by, suspended in, or deposited by streams. Sediment load, which is the quantity of sediment transported by a stream, is a function of stream discharge, soil and land-cover features, weather conditions, land-use activities, and many other factors. Sediment load carried by streams and rivers can be composed either of fine materials, mostly silts and clays, or larger materials such as sand.

When a river erodes the eroded material becomes the river's load and the river will then transport this load through its course until it deposits the load. There are a few different ways that a river will transport load depending on how much energy the river has and how big the load is Physiographically, Jabalpur district can broadly be divided in to three physiographic units.

1. The Vindhyan Tract

2. The South eastern plateau of the Satpura

3. The Bhitraghat Range & the associated hill area.

The Bhandar & Kaimur ranges of Vindhyan System attains an altitude of 530 m and form the western boundary of the district. The Bhandar range is in the form of dry abrupt & step scarp & at the foot of this escarpment flows the Hiran River. The south eastern plateaus of Satpura are cut across by the Narmada its south of Jabalpur & Deccan traps farming flat topped hills cover the whole area of Satpuras in south east. The general height of table land is

460 mamgl south of Narmada & about 535 mamgl east of Jabalpur. The Bhitrigarh range & associated hill area run across the northern part of the district from south west to north east. It consists of metamorphic rocks & meets the spur of Satpuras at almost right angle. These have general elevation of 460 to 550 mamgl. The range forms the watershed between the catchments of Hiran in the south & Katni in the north. Between the high lands of Vindhya in the west & Satpuras in east is low lying alluvial formed due to Narmada & Hiran rivers & is called as the 'Havelli'.

The physiography of Jabalpur district is much favorable to carry quantum of sediment load which generate and replenish a large quantity of sand in the river.

vi) Engineering Structures STOP DAM / CHECK DAM / BARRAGE/ HYDAL DAMS:

Man – made structures like stop dam / check dam / barrage / and hydal dams also affects the sand flow and act as check over the sand deposition in downstream area. As per Google map near by the QL area such structure not considered.


vii) Activity near river bank:


Any man-made activity such as rock mining / trenching/ channeling/ canal etc. produce large quantity of fines of existing rocks with transports in river bed may deposited nearby the area in river course.

viii) Tributaries and its confluences:

Stream may be 1st order to 3rd order, that to a streamlet to a major one, have a great impact on deposition of sand where some physiographic features are also have imperative role:

- a. Tributary / confluence
- b. Meanders
- c. Negative reliefs
- d. Slope / gradients


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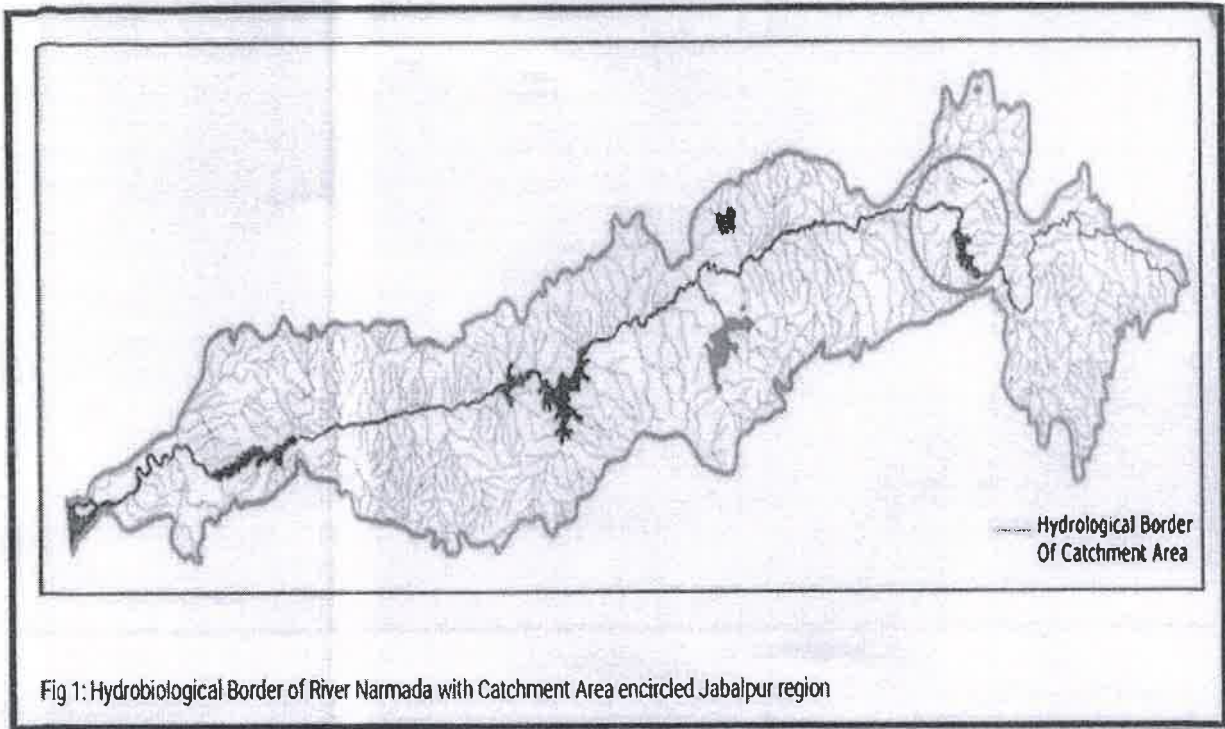
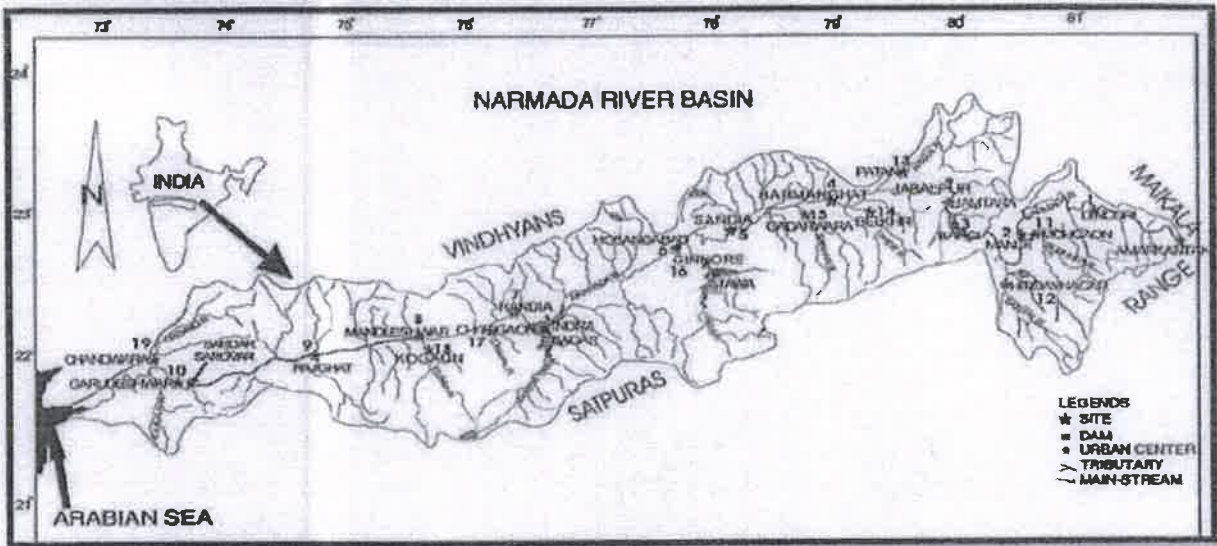


Fig 1: Hydrobiological Border of River Narmada with Catchment Area encircled Jabalpur region

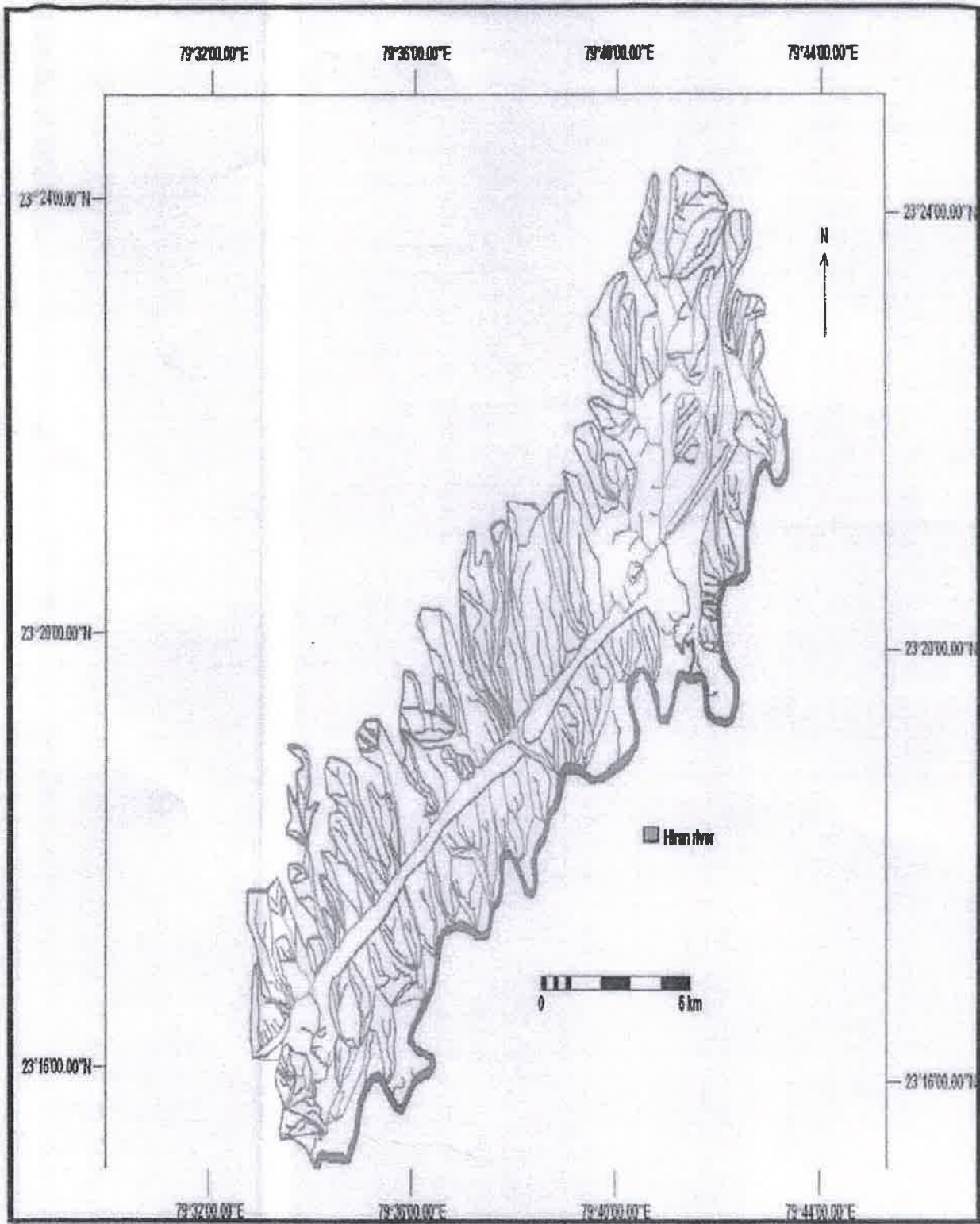



Annual Rainfall


The average annual rainfall of Jabalpur District is 1279.50mm. Jabalpur received maximum rainfall received during south west monsoon period i.e. June to September. About 90% of the annual rainfall received during monsoon season. Only 10% of the annual rainfall takes place

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between October to May period. Thus surplus water for ground water recharge is available only during the south west monsoon Period. (Ref. Ground Water Information Booklet, Jabalpur district Madhya Pradesh)

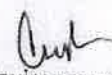
Month-wise Rainfall Data of Jabalpur District of last five years

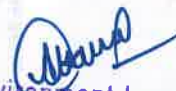
YEAR	JAN		FEB		MAR		APR		MAY		JUN	
	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
2016	14.8	-19	0.0	-100	26.7	134	0.0	-100	51.3	574	92.5	-26
2017	8.2	-55	20.2	77	3.8	-67	0.0	-100	21.9	188	127.1	2
2018	0.0	-100	19.8	73	0.9	-93	2.9	-23	3.0	-61	78.2	-37
2019	3.1	-79	9.4	-33	3.1	-69	17.1	418	0.3	-97	64.5	-55
2020	27.5	82	2.1	-85	21.3	115	0.7	-79	18.0	96	114.7	-20

JUL		AUG		SEPT		OCT		NOV		DEC	
R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP	R/F	%DEP
604.4	70	587.5	43	76.4	-62	32.3	-2	0.0	-100	0.0	-100
364.9	3	206.9	-50	139.3	-30	10.2	-69	0.0	-100	0.0	-100
439.0	24	450.3	10	87.8	-56	0.0	-100	0.0	-100	0.2	-98
393.5	16	734.3	76	394.8	88	24.7	-15	0.0	-100	14.7	20
203.1	-40	627.3	51	88.7	-58	2.4	-92	5.3	-45	1.0	-92

(Ref. [http://hydro.imd.gov.in/hydrometweb/\(S\(2pbqgbuxid2rrmqdm5jrhz55\)\)/District/fai/fall.as](http://hydro.imd.gov.in/hydrometweb/(S(2pbqgbuxid2rrmqdm5jrhz55))/District/fai/fall.as))

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7 General Profile of the District

1. Geographical Position	The district lies between the North latitude 22°49' and 23°07' North and meridian of longitude 79°21' and 80°35' East.
2. Area and Population	<p>I. Geographical Area (Sq. Km) Total Area (Sq. Km): 5211 Km²</p> <p>II. CENSUS 2011</p> <p>I. Population</p> <p>a. Total Population: 2,463,289</p> <p>b. Male Population: 1,277,278</p> <p>c. Female Population: 1,186,011</p> <p>II. Literates</p> <p>a. Total Literates: 1,756,468</p> <p>b. Male: 980,307</p> <p>c. Female: 776,161</p> <p>III. Main Workers (Census 2011)</p> <p>a. Total Workers: 1,005,624</p> <p>b. Male Workers: 705,970</p> <p>c. Female Workers: 299,654</p> <p>d. Cultivators: 106,882</p> <p>e. Agricultural Labourers: 283,636</p> <p>f. Other Workers: 545,160</p> <p>V. Languages Spoken in the District</p> <p>The main language spoken in the district is Hindi, followed by Urdu. The main dialect of the area is Bagheli.</p>
3. Temperature	<p>Mean- Maximum temperature: 32.1°C</p> <p>Mean- Minimum temperature: 18.3°C</p>
4. Rainfall (In mm)	<p>Normal – South West Monsoon: 1168.40 mm</p> <p>Annual Rainfall: 1279.50 mm</p>
5. Agriculture	<p>a. Total Cultivable Area (Ha): 306.10</p> <p>b. Net Area Sown (Ha): 273.80</p> <p>c. Area Sown more than once (Ha): 98.0</p>
6. Rivers, etc.	Narmada river, Chhoti Mahanadi & their tributary

7. Revenue Administrative Divisions	Revenue Divisions: a. Revenue Tehsils: 10 b. Revenue blocks: 7
8. Local Bodies	a. Municipalities: 1 b. Village Panchayats: 542



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Census Data 2011

Census Data for year 2011

Description	2011
Actual Population	2,463,289
Male	1,277,278
Female	1,186,011
Population Growth	14.51%
Area Sq. km.	5,211
Density/KM ²	473
Proportion to population of Madhya Pradesh	3.39%
Sex Ratio (Per 1000)	929
Child Sex Ratio (0-6 Age)	923
Average Literacy	81.07
Male Literacy	87.29
Female Literacy	74.37
Total Child Population (0-6 Age)	296,565
Male Population (0-6 Age)	154,210
Female Population (0-6 Age)	142,355
Literates	1,756,468
Male Literates	980,307
Female Literates	776,161
Child Proportion (0-6 Age)	12.04%
Boys Proportion (0-6 Age)	12.07%
Girls Proportion (0-6 Age)	12.00%


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
8 Land utilization Pattern in the District: Forest, Agricultural, Mining, etc.,

Land use/land cover (LULC) changes are main issues of universal environment change. The Satellite remote sensing data with their monotonous nature have proved to be rather useful in mapping land use/land cover decorations and changes with time. Quantification of such changes is conceivable through GIS techniques even if the subsequent spatial datasets are of dissimilar scales or resolutions. Such studies have helped in considerate the dynamics of human happenings in space and time. Land use refers to man's activities.

Table 12 Land Use Pattern of the Study Area

Sr. No.	Class	Area in Ha.	Percentage of coverage
1	Agricultural Plantation	129.92684	0.03 %
2	Barren rocky	163.02896	0.03 %
3	Canal/drain	1,442.0095	0.28 %
4	Cropland	3,44,702.33	67.67 %
5	Deciduous (Dry/Moist/Thorn)	31,748.592	6.23 %
6	Fallow land	1,208.464	0.24 %
7	Forest Plantation	46.960396	0.01 %
8	Gullied/Ravinous land	2,868.0754	0.56 %
9	Industrial	3,072.0457	0.60 %
10	Lake/Ponds	2,116.7199	0.42 %
11	Mining / Quarry	1,207.4463	0.24 %
12	Reservoir/Tank	7,193.0231	1.41 %
13	River	5,540.8868	1.09 %
14	Rural	5,515.4766	1.08 %
15	Scrub Forest	5,583.8873	1.10 %
16	Scrub land	59,219.648	11.63 %
17	Tree Clad Area	26,923.921	5.29 %
18	Urban	10,691.44	2.10 %
	Total	5,09,373.8784	100.00 %


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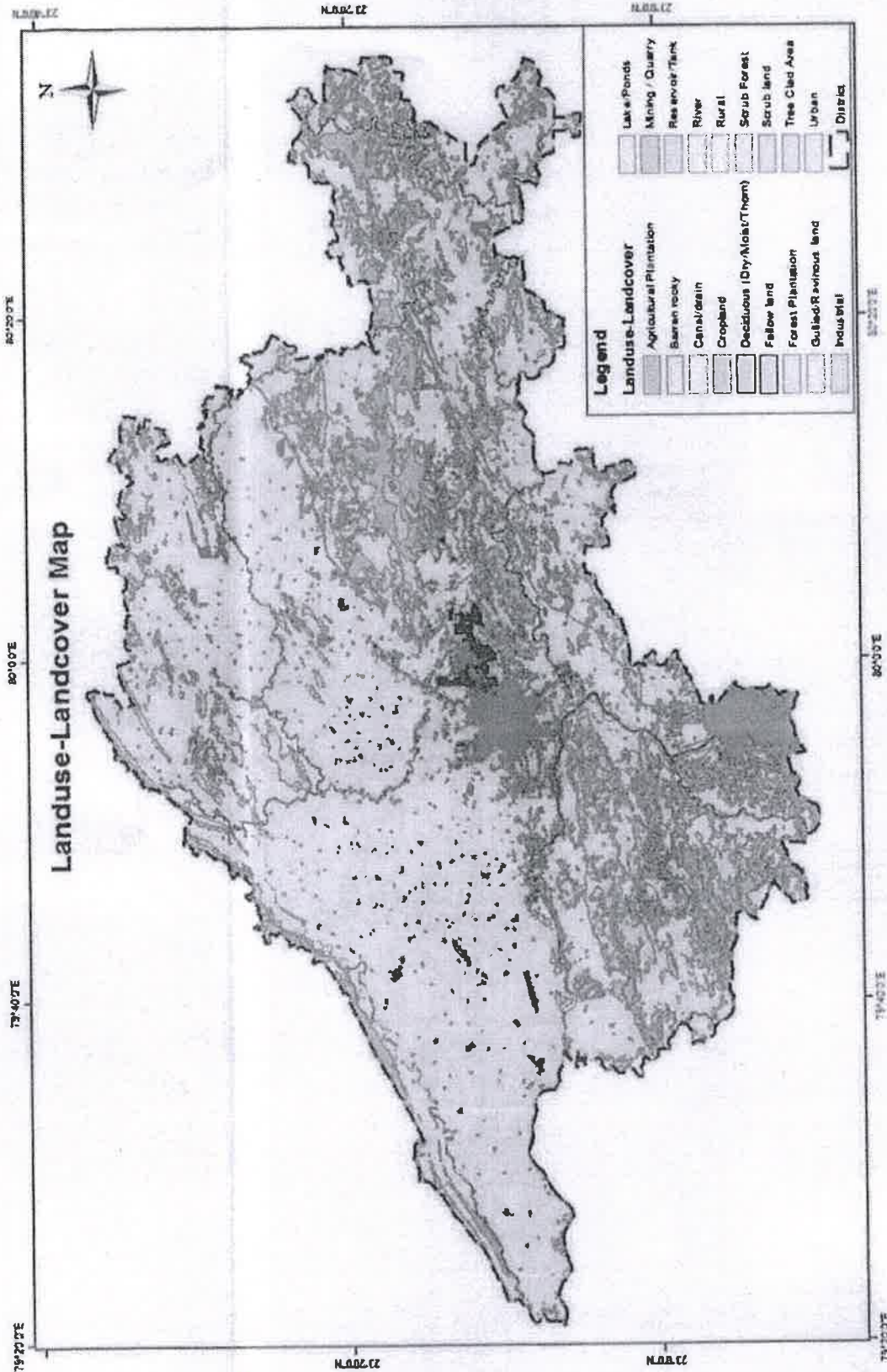


Figure 5 Land Use and Land Cover Map of the District

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LULC Breakup of the District (%)

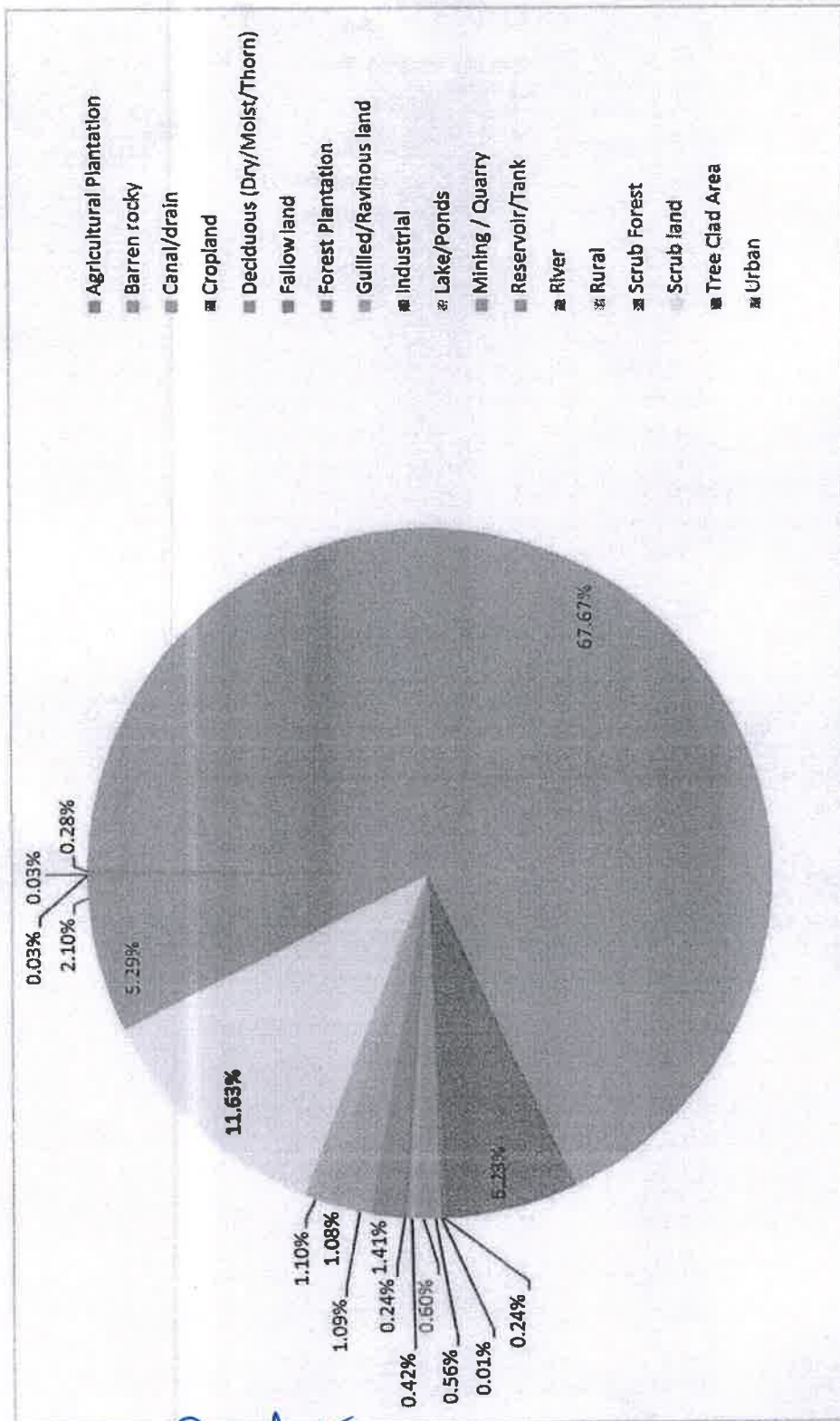


Figure 6 Land Use and Land Cover Breakup of the District

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
9 Physiography of the District

Jabalpur district can broadly be divided in to three physiographic units.

- 1) The Vindhyan Tract
- 2) The South eastern plateaus of the Satpura.
- 3) The Bhitright Range & the associated hill area.

The Bhandar & Kaimur ranges of Vindhyan System attains an altitude of 530 m amsl & form the western boundary of the district. The Bhandar range is in the form of abrupt & step scarp & at the foot of this escarpment flows the Hiran River. The south eastern plateaus of Satpura are cut across by the Narmada its south of Jabalpur & Deccan traps forming flat topped hills cover the whole area of Satpuras in south east. The general height of table land is 460 m amsl south of Narmada & about 535 m amsl east of Jabalpur. The Bhitright range & associated hill area run across the northern part of the district from south west to north east. It consists of metamorphic rocks & meets the spur of Satpuras at almost right angle. These have general elevation of 460 to 550 m amsl. The range forms the watershed between the catchments of Hiran in the south & Katni in the north. Between the high lands of Vindhyan in the west & Satpuras in east is low lying alluvial plain formed due to Narmada & Hiran rivers & is called as the 'Haveli'.


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10 Details of month wise Rainfall data of 1 year

Table 13 Details of Month wise Rainfall Data (April-2021 to March.2022)

Sr. No.	Month	Month wise average Value of Rainfall (m.m.)
01	April 2021	4.5
02	May -2021	110.9
03	June-2021	105.1
04	July-2021	265.2
05	August-2021	205.5
06	September-2021	208.6
07	October-2021	15.5
08	November-2021	1.5
09	December-2021	5.4
10	January-2022	54.4
11	February-2022	0.2
12	March-2022	0.0

Rainfall

The average annual rainfall of Jabalpur District is 1279.50mm. Jabalpur received maximum rainfall received during south west monsoon period i.e., June to September. About 90% of the annual rainfall received during monsoon season. Only 10% of the annual rainfall takes place between Octobers to May period. Thus, surplus water for ground water recharge is available only during the south west monsoon period.

Climatic Conditions

The climate of Jabalpur is characterized by a hot summer and general dryness except during the south west monsoon. The year may be divided into four seasons. The cold season, December to February is followed by the hot season from March to about the middle of June. The period the middle of June to September is the south west monsoon season. October and November form the post monsoon or transition period.

The normal maximum temperature received during the month of December is 9°C. The normal annual means maximum and minimum temperature of Jabalpur District is 32.1°C & 18.3°C respectively. During the south west monsoon season the relative humidity generally exceeds 87% (August month). In the rest of the year is drier. The driest part of the year is the summer season. When relative humidity is less, around 27%. May is the driest month of the year. The wind velocity is higher during the pre-monsoon period as compared to post monsoon period. The maximum wind velocity 8.6 km/hr observed during the month of annual wind velocity of Jabalpur district is 5.3 km/hr.

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
11. Geology and Mineral Wealth:

Regional Geology:

Jabalpur district is located almost in the central part of Madhya Pradesh and it is having 15% tribal population to the population of the district. The deposits of talc around Bharaghat near the Marble rocks on the Narmada River, about 13 miles west of Jabalpur are the best known. The district lies between the North latitude 22° 49' and 23° 07' North and meridian of longitude 79° 21' and 80° 35' East. The district is bounded in the South east and east by Manda & Dindori district, in the south by Seoni and in the south West Narsingpur district and in the west by Damoh district. The district falls in survey of India Top sheet Nos. 55M, 64A- and 55 N on 1:250,000 scale & occupy an over of 5655 Sqkm.


The district is often called as the Museum of Geology. It exhibits very wide spectrum of rocks, ranging in age from Archaean to Pleistocene and recent period. The older metamorphic rocks comprising of granite gneiss with enclaves of amphibolites and schist, are exposed in the central part of the district. The volcano-sedimentary sequence of Mahakoshal group, trending in ENE-WSW direction, is exposed in the central and SW parts of the district. It comprises Meta volcanic rocks, chemical precipitation and turbidites. Dolerite dykes, amphibolites, granites and quartz veins intrude these rocks. These intrusives exhibit a peculiar ENE-WSW trend. The intrusive MadanMahal granite occurs in the form of inselberg and conical hills near Jabalpur. Vindhyan supergroup is represented by kaimur, Rewa and Bhandar group which consist of sandstone, shale and glauconitic partings occur in the northern plateau and form of steep escarpments. Gondwara supergroup is represented by Jabalpur group and comprises of alternate beds of coarse and pebbly sandstone and clay and is exposed in the east, central and SW part of the district. The plant fossils are found within them. Lameta Group comprises of green glauconitic sandstone, grit, nodular siliceous limestone and clay in the SC parts of the district. Remains of Dinosaur fossils are encountered within it. Deccan trap Basalt form extensive plateau in the southern part and comprises of 14 to 22 flows. The quaternary sediments comprise mainly of clay and calcareous concretions. Tight isoclinal folding of Mahakoshals, intense deformation of Vindhyan along its contact with Mahakoshals and general broad shallow synclinal structures of Vindhyan are highlights of the structural features. The region is a part of Crumansonata zone and exhibit a regional trend of ENEWSW. The contact between Mahakoshals is faulted all along. It is intersected and inter veined by no. of minor faults and micro lineaments which trend in NNW-SSE to NW-SE direction. For A detailed geological set up and geological map of Jabalpur, please



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refer District Resource Map of Jabalpur district, published by Geological Survey of India A concise account of geological set up district is given below.

Pleistocene to Recent	Recent		Alluvial soil Laterite
Upper Cretaceous to Eocens	Amarkantak group		Sills and dykes and flows of Deccan Trap Basalt and intertrappeans
Upper Cretaceous	Lameta group		Sandstone, clay, siliceous limestone and grit
Cretaceous to Carboniferous	Jabalpur group (Up. Gondwana)		Sandstone, clay, shales with thin coal seams
Neo to Meso Proterozoic	Vindhyan supergroup	Bhander Rewa Kaimur	Sandstone, shales, siltstones
Palaeo-Proterozoic	Intrusives		Quartz vein Basic dykes granite
	Mahkoshal group		Quartzite, BHQ/BHJ, conglomerate, chert breccias, phyllite, dolomite
Archaean			Granite gneiss with enclaves of amphibolites and schists


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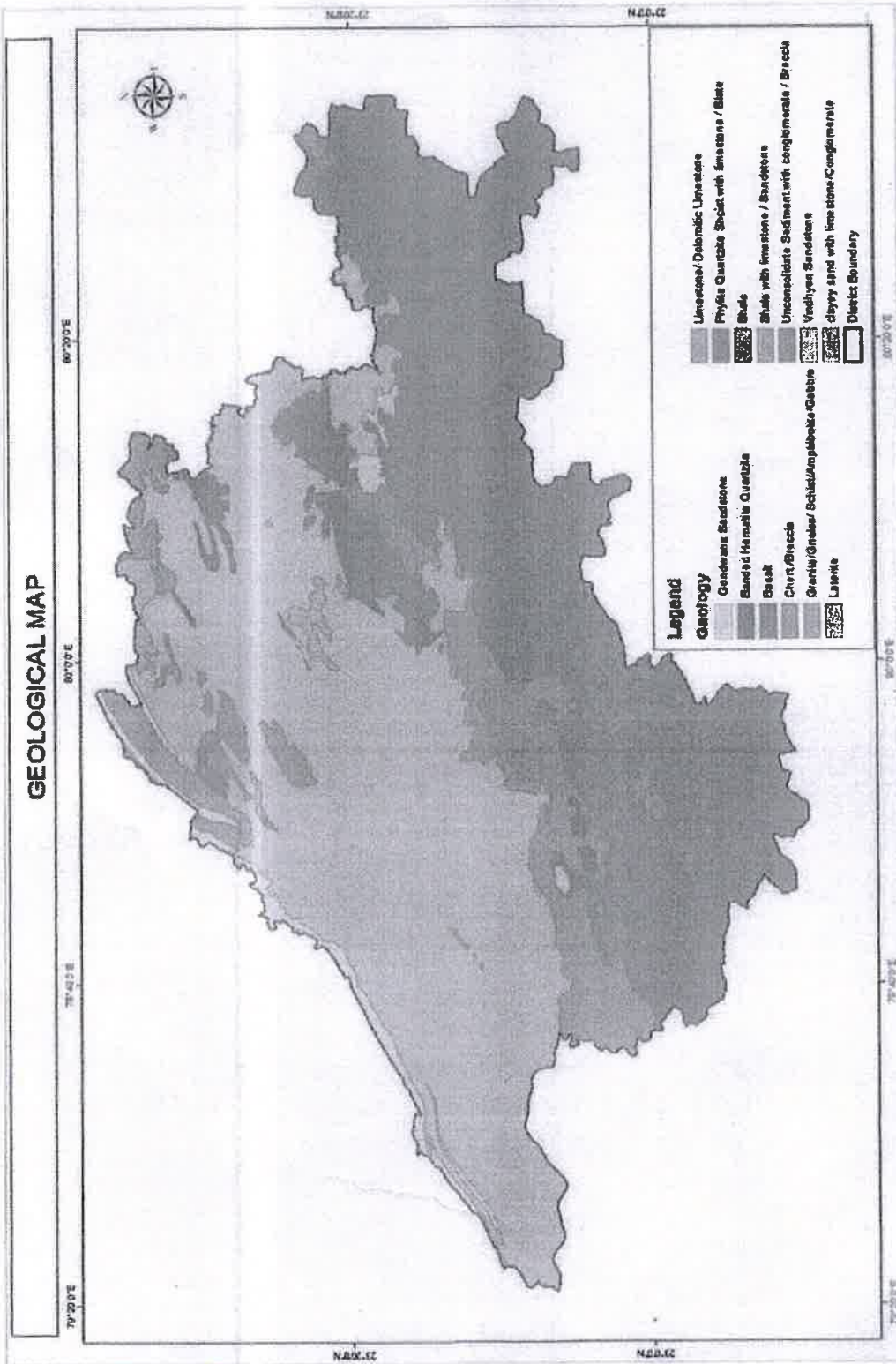


Figure 7 Geological Map of the District

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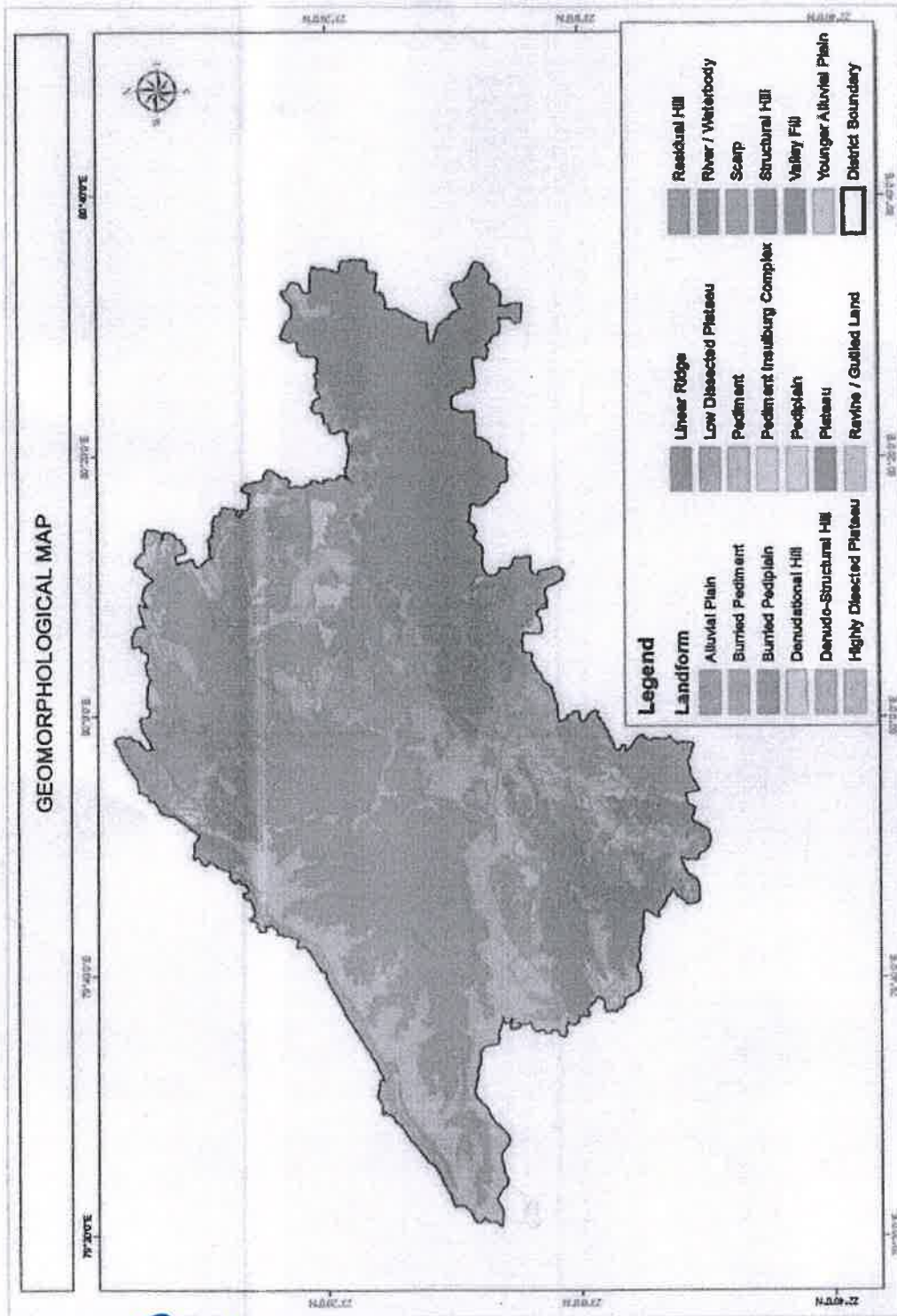


Figure 8 Geomorphologic Map of the District

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Drainage and Irrigation Pattern


Drainage Pattern

Jabalpur district lies at the Junction of the vindhyan and Satpura range and forms part of the great central watershed of India. The Narmada and its tributaries, the Hiran, Gaur drain the district. Choti Mahanadi drains a very small area in the east, which is tributary of Son River falling in the Ganga basin. The general slope of the Narmada valley is towards west & of Hiran towards south west. The drainage in the district is generally of dendrite type except in the valley of Narmada, along the right banks of Hiran below Katangi where it is of the straight trunk & trellis pattern. The total length of the Narmada River in the district is about 110 km.

Irrigation Practices

The total area under irrigation by various sources is 1100.42 sq. km & Net sown area is 2726.60 sq. km which is 40.35% of net sown area in the district. The area irrigated by canals was 78.54 sq. km (2.88% of total area sown), by tube wells 739.11 sq. km (27.10%), by open wells 281.88 sq. km (8.92%) and by ponds (0.04%). There are 8832 tube wells and 8010 dug wells in the district for irrigation.


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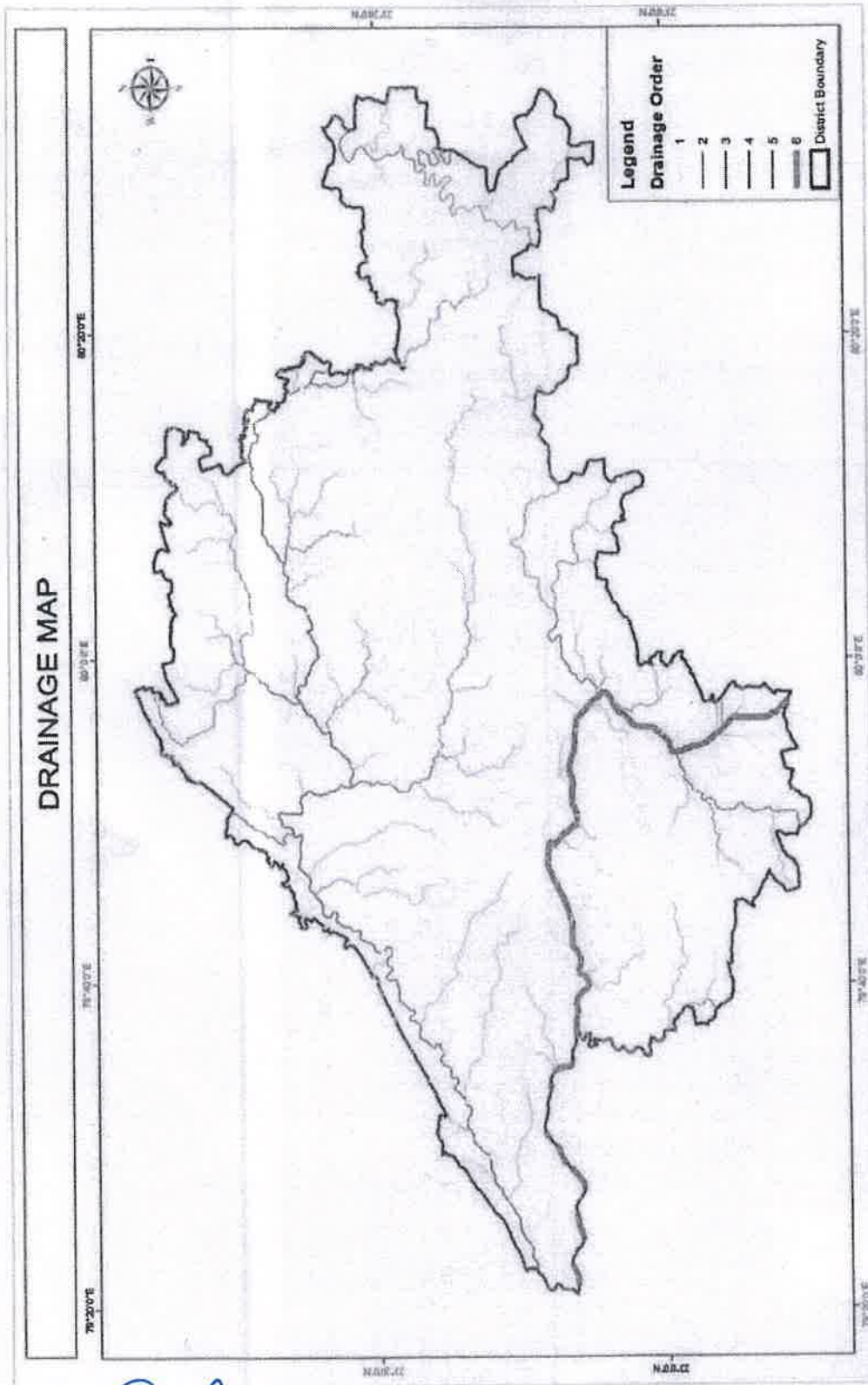


Figure 9 Drainage Map of the District

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Surface Water and Ground water scenario of the district


Ground Water

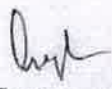
Ground Water is found beneath the earth's surface and is an important source of water in most of the Districts in the State. Ground Water is withdrawn for Agriculture, Municipal and industrial use. The depth at which the ground water occurs is called Ground water Table.

To study ground water regime of the area, pre monsoon & post monsoon depth to water level maps of the district has been prepared. Eastern part of the district is highly undulating & forested. In general depth to water level during Pre- Monsoon in the district ranges between 0.37m-14.20mbgl. In general depth to water level during post-Monsoon in the district ranges between 2.30m-16.80mbgl. Long term water level trend suggests Fall - 0.02-0.2 m/year and Rise of 0.01-0.14 m/year during Pre-monsoon.

Surface Water

District lies at the Junction of the vindhyan and Satpura range and forms part of the great central watershed of India. The Narmada and its tributaries, the Hiran, Gaur drain the district. Choti Mahanadi drains a very small area in the east, which is tributary of son river falling in the Ganga basin. The general slope of the Narmada valley is towards west & of Hiran towards south west. The drainage in the district is generally of dendrite type except in the valley of Narmada, along the right banks of Hiran below Katangi where it is of the straight trunk & trellis pattern. The total length of the Narmada River in the district is about 110 km.


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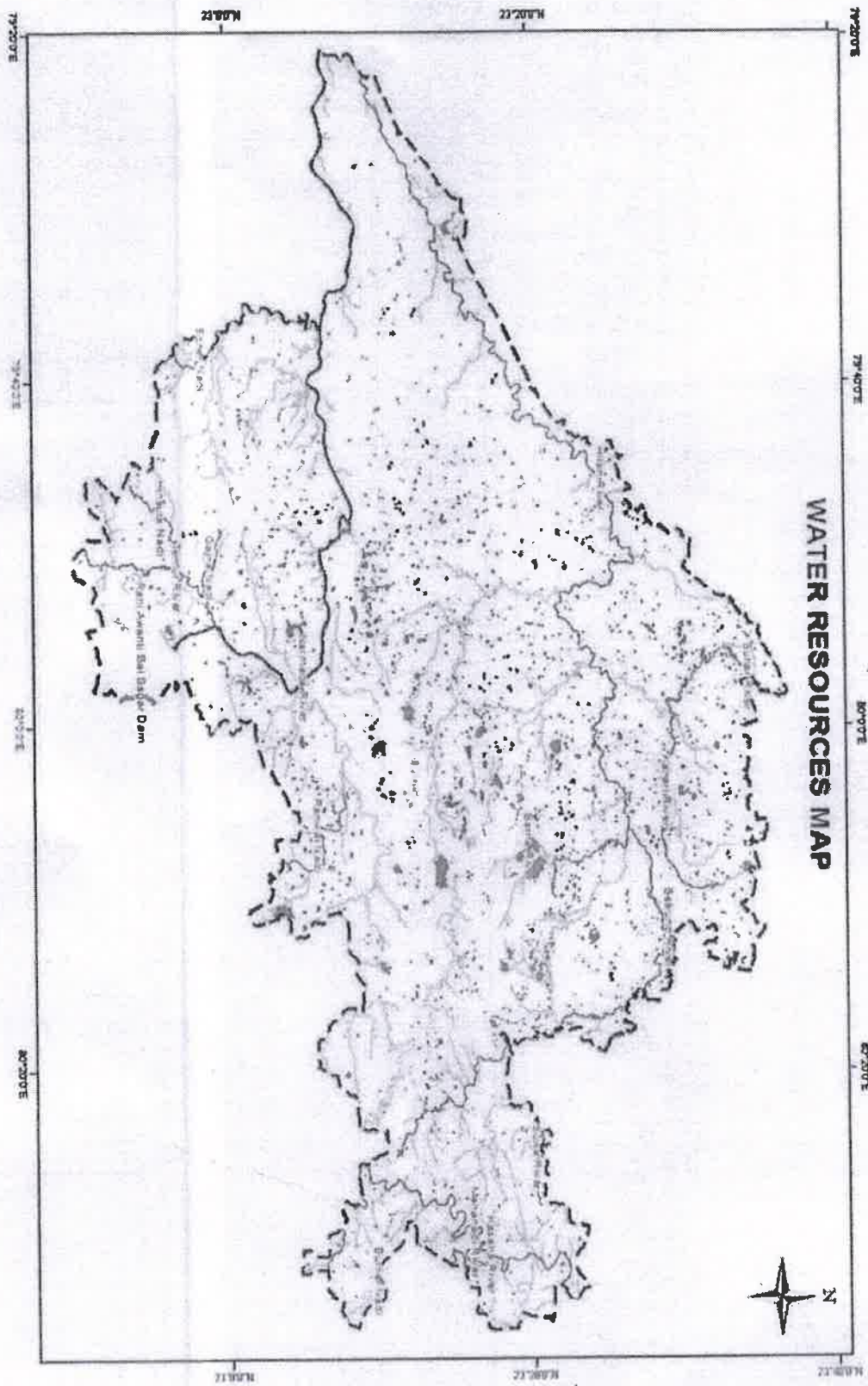


Figure 10 Water Resources Map of the District

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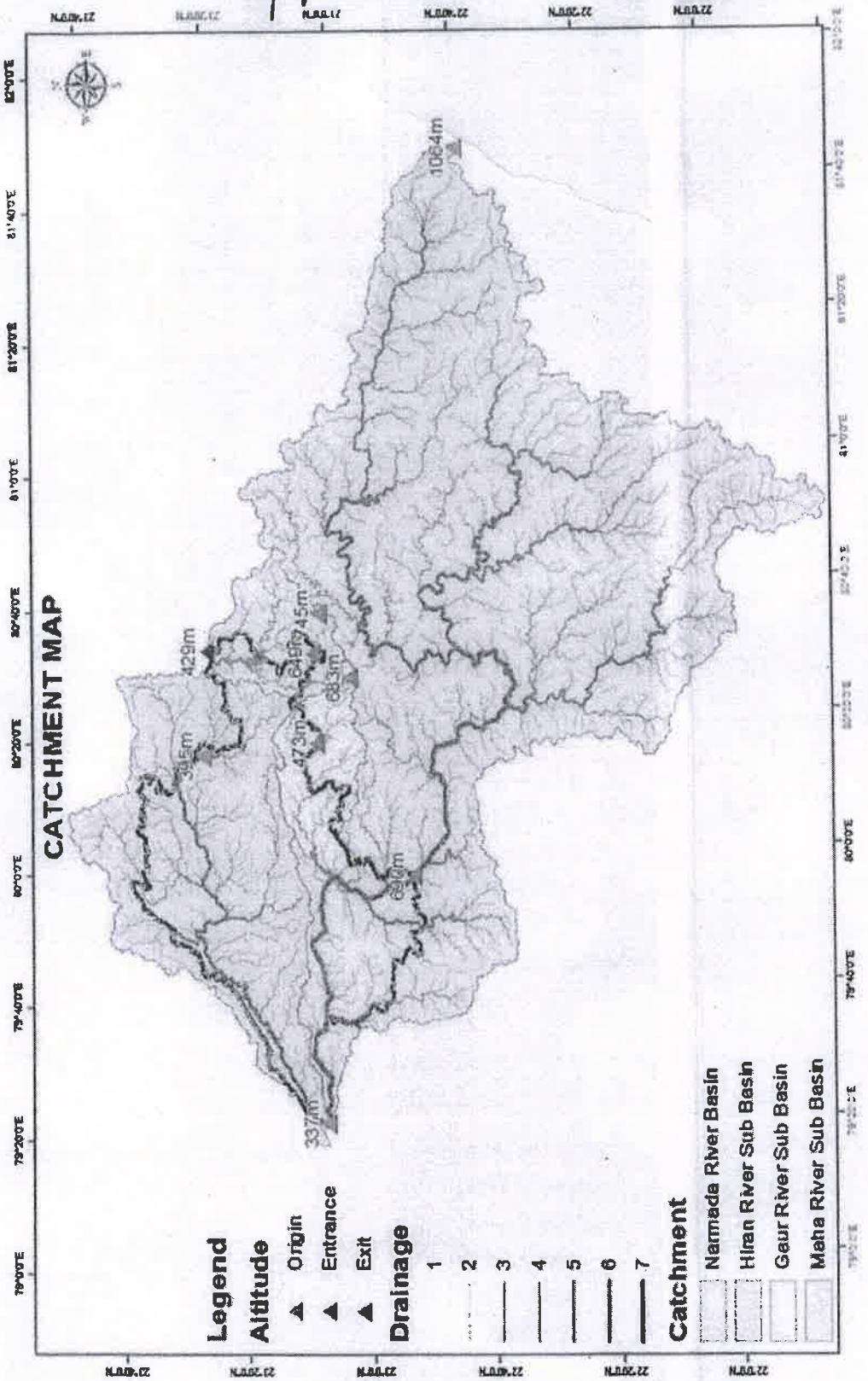


Figure 11 Catchment Map of District

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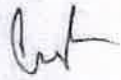
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Table 14 Details of Catchment

Area

Sr. No.	Properties	Narmada River Basin	Hiran River Sub-Basin	Gaur River Sub-Basin	Maha River Sub-Basin
1	Catchment Area up to Exit spot of Particular District	17449 sq. km	4684 sq. km	923 sq. km	961 sq. km
2	Catchment Area of Particular District	1251 sq. km	3079 sq. km	489 sq. km	300 sq. km
3	Length of the Catchment Area	253 km	130 km	54 km	41 km
4	Length of the Catchment Area of Particular District	67 km	98 km	35 km	34 km
5	Altitude at Origin of the River	1064 m	395 m	683 m	745 m
6	Altitude at Entrance of the Particular District	690 m	395 m	473 m	649 m
7	Altitude at Exit of the Particular District	337 m	337 m	337m	429 m


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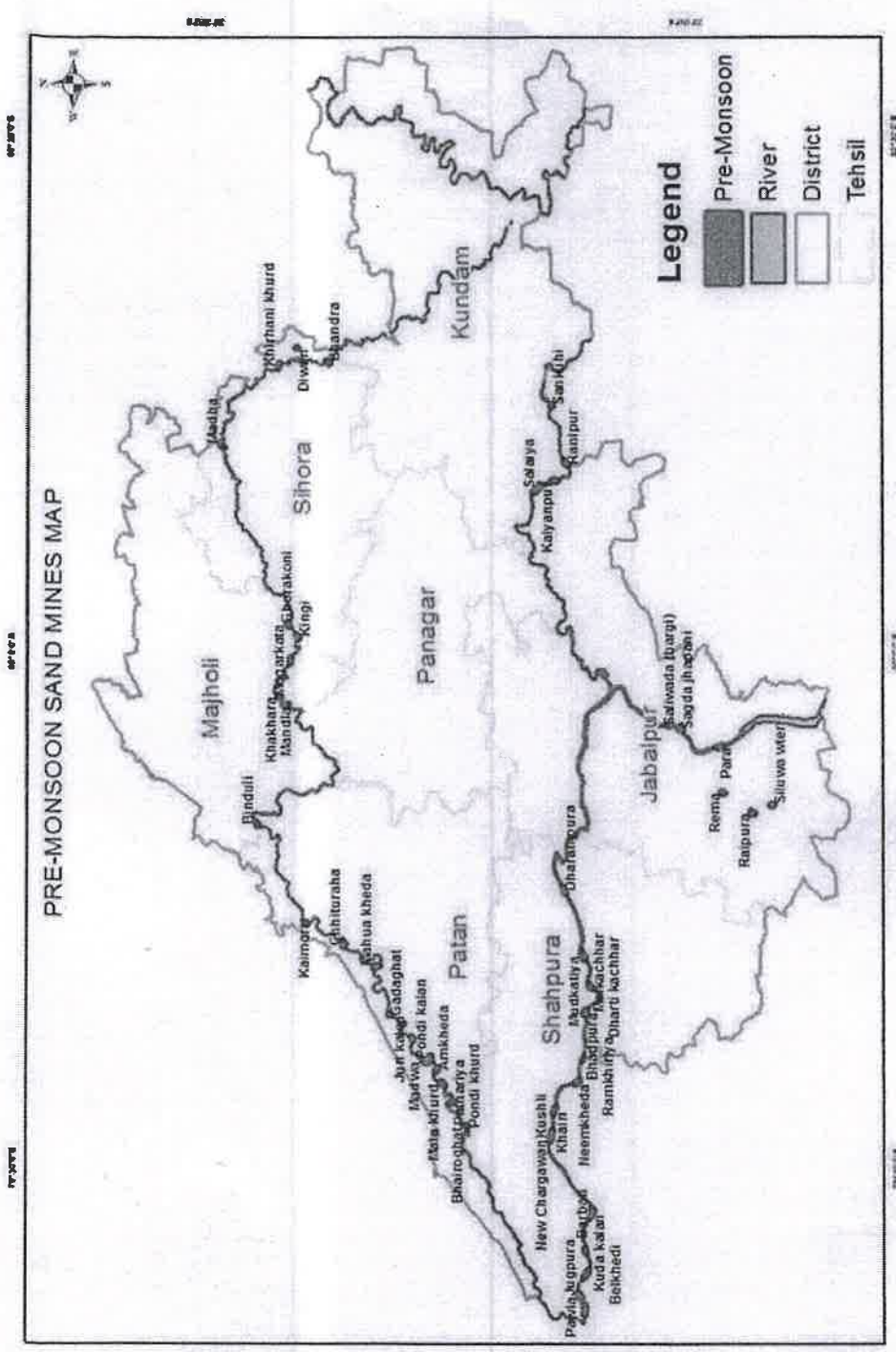





Figure 13 Sand Mining Map of the District – Pre-Monsoon



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Sand Mining Area based on Pre- Monsoon Map


Sr. No.	Name of Mines	Tehsil	Total Area in sqm	Sand Quantity
1	Sagda Jhapani	Jabalpur	20230	30345
2	Saliwada	Jabalpur	40000	60000
3	Reema	Jabalpur	40000	12000
4	Siluwa	Jabalpur	40000	12000
5	Para	Jabalpur	65000	13000
6	Salaiya	Jabalpur	40000	12000
7	Khirhani Kalan	Sihora	20000	10000
8	Ranipur	Kundam	50000	15000
9	Kalyanpur	Kundam	29000	14500
10	Kushli	Shahpura	45000	13500
11	Mudkatiya	Shahpura	60000	18000
12	Dharti kachhar	Shahpura	40000	60000
13	Bhairavghat	Patan	20000	8000
14	Neemkheda	Shahpura	40000	40000
15	New Chargawa	Shahpura	133700	40110
16	Barbati	Shahpura	60000	18000
17	Jugpura	Shahpura	127850	95887.5
18	Dharampura	Shahpura	30000	30000
19	Malkachhar	Shahpura	20000	10000
20	Bhadpura	Shahpura	45000	13500
21	Ramkhiriya	Shahpura	21500	6450
22	Khairi	Shahpura	40000	20000
23	Belkhedi	Shahpura	134500	67250
24	Kudakalan	Shahpura	100000	30000
25	Pondi Kalan	Patan	40000	12000
26	Malakhurd	Patan	20000	8000
27	Pondi Khurd	Patan	40000	12000
28	Kaimori	Patan	20000	6000
29	Chhituraha	Patan	20000	10000
30	Gadaghat	Patan	20000	10000
31	Mahuakheda	Patan	20000	20000
32	Amakheda	Patan	8000	6000
33	Joorikalan	Patan	60000	18000
34	Mandwa	Patan	20000	6000
35	Ghorakoni	Sihora	20000	6000
36	Madha	Sihora	10000	7500


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37	Deori Kanhai	Sihora	20000	6000
38	Bindali	Majholi	10000	8000
39	Magarkata	Majholi	20000	10000
40	Mandla	Majholi	10000	10000
41	Khakhara	Majholi	20000	10000
42	Pawla	Shahpura	149200	74600


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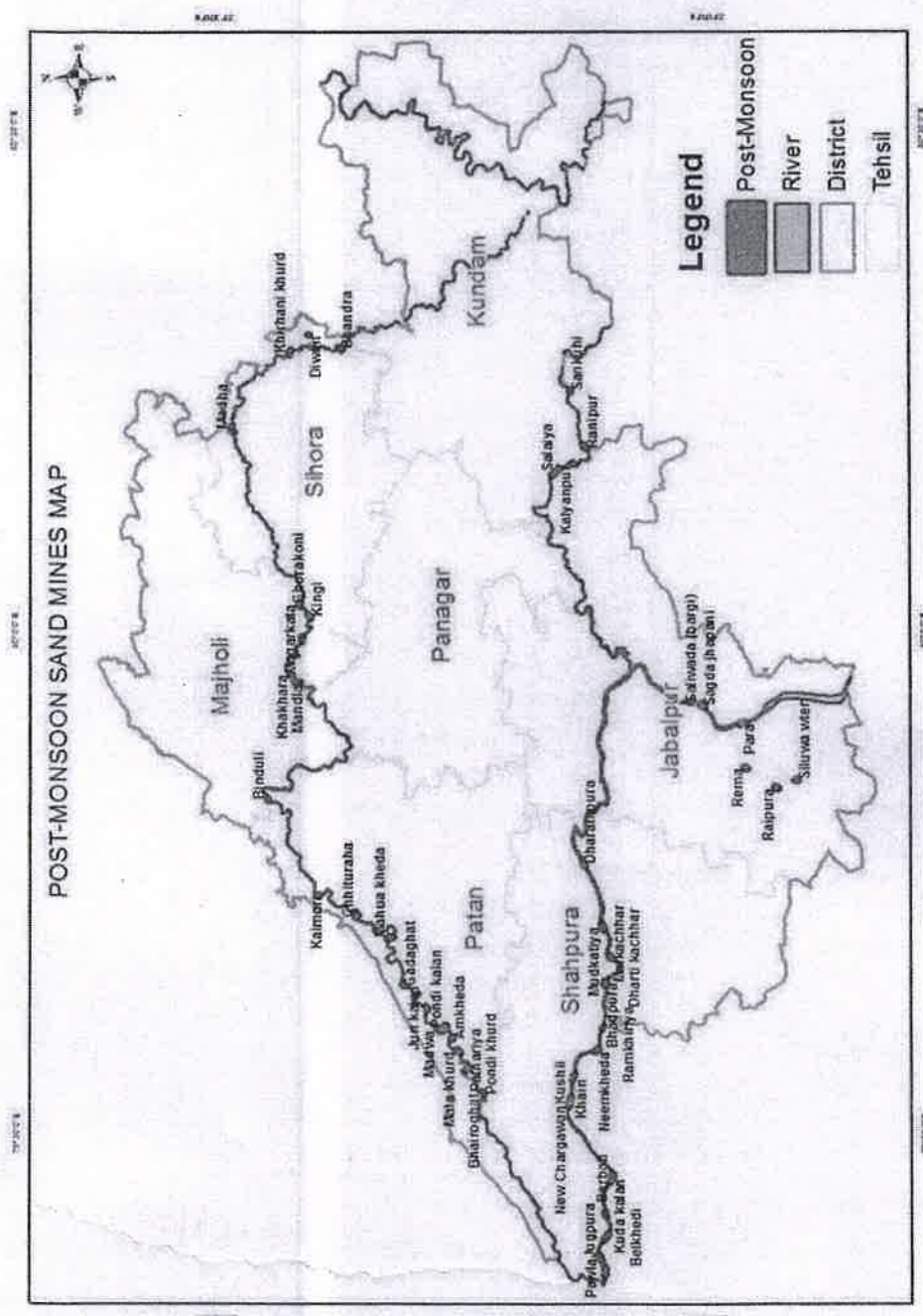


Figure 14 Sand Mining Map of the District – Post - Monsoon

(Signature)


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Sand Mining Area based on Post- Monsoon Map


Sr. No.	Name of Mines	Tehsil	Total Area in sqm	Sand Quantity
1	Sagda Jhapani	Jabalpur	20230	60690
2	Saliwada	Jabalpur	40000	120000
3	Reema	Jabalpur	40000	20000
4	Siluwa	Jabalpur	40000	20000
5	Para	Jabalpur	65000	22750
6	Salaiya	Jabalpur	40000	20000
7	Khirhani Kalan	Sihora	20000	30000
8	Ranipur	Kundam	50000	25000
9	Kalyanpur	Kundam	29000	29000
10	Kushli	Shahpura	45000	22500
11	Mudkatiya	Shahpura	60000	30000
12	Dharti kachhar	Shahpura	40000	120000
13	Bhairavghat	Patan	20000	14000
14	Neemkheda	Shahpura	40000	80000
15	New Chargawa	Shahpura	133700	66850
16	Barbati	Shahpura	60000	30000
17	Jugpura	Shahpura	127850	159812.5
18	Dharampura	Shahpura	30000	60000
19	Malkachhar	Shahpura	20000	20000
20	Bhadpura	Shahpura	45000	22500
21	Ramkhiriya	Shahpura	21500	10750
22	Khairi	Shahpura	40000	40000
23	Belkhedi	Shahpura	134500	134500
24	Kudakalan	Shahpura	100000	50000
25	Pondi Kalan	Patan	40000	20000
26	Malakhurd	Patan	20000	15000
27	Pondi Khurd	Patan	40000	20000
28	Kaimori	Patan	20000	10000
29	Chhituraha	Patan	20000	30000
30	Gadaghat	Patan	20000	20000
31	Mahuakheda	Patan	20000	40000
32	Amakheda	Patan	8000	10000
33	Joorikalan	Patan	60000	30000
34	Mandwa	Patan	20000	10000
35	Ghorakoni	Sihora	20000	10000
36	Madha	Sihora	10000	12500


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37	Deori Kanhai	Sihora	20000	10000
38	Bindali	Majholi	10000	17000
39	Magarkata	Majholi	20000	20000
40	Mandla	Majholi	10000	20000
41	Khakhara	Majholi	20000	20000
42	Pawla	Shahpura	149200	74600



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DRAINAGE SYSTEM WITH DESCRIPTION OF MAIN RIVER

Annexure - 1


S. NO.	Name of the River	Area Drained (Sq. Km.)	Area Drained in the District (Sq. Km.)	Percentage of Area Drained in the District
1	Narmada River Basin	17450	1252	7 % (Approx)
2	Hiran River Basin	4684	3079	66 % (Approx)
3	Gaur River Basin	924	490	53 % (Approx)
4	Maha River Sub - Basin	961	309	32% (Approx)


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SALIENT FEATURES OF IMPORTANT RIVERS AND STREAMS


Annexure - 2

S. No.	Name of the River or Stream	Total Length in the District (In km)	Place of Origin	Altitude at origin
1	Narmada River Basin	110 km	Amarkantak	1064 m
2	Hiran River Sub-Basin	98 km	Bhanrer range, Jabalpur	395 m



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MINEABLE MINERAL POTENTIAL (60% OF TOTAL MINERAL POTENTIAL)										
Annexure - 3										
SL No	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in kilometers)	Average width of area recommended for mineral concession (in meters)	Total Area (in m ²) (rounded)	Area recommended for mineral concession (in m ²) Area x Depth	Mineable mineral potential (60% of total mineral potential)		Last 3 years sand excavation details in cubic meter		
						Cubic meter	Metric Tonne	2020-21	2021-22	2022-23
1	Narmada River Village - Sagda Jhapani Khasra No. - 1	0.29	69.75	20230	12138 x 3	36414	50979.6	16424.71	12398.26	22424
2	Narmada River Village - Saiwada Khasra No. - 464	0.355	112.67	40000	20000 x 3	60000	84000	57452.28	50843.67	44500
3	Temur River Village - Recma Khasra No. - 119	0.405	98.76	40000	6000 x 0.5	3000	4200			
4	Temur River Village - Siluwa Khasra No. - 103	0.573	69.80	40000	6800 x 0.5	3400	4760			
5	Narmada River Village - Para Khasra No. - 436	0.576	112.84	65000	8000 x 0.35	2800	3920			
6	Gaur River Village - Salaiya Khasra No. - 241	0.93	43.01	40000	6000 x 0.5	3000	4200			
No Production has been done due to absence of Environment clearance										


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7	Hiran River Village - Khirhani Kalan Khasra No. - 271	0.572	34.96	20000	3200 x 1.5	4800	6720	No Production has been done due to absence of Environment clearance		
8	Gaur River Village - Ranipur Khasra No. - 428	0.512	97.65	50000	4000 x 0.5	2000	2800	164	4340	10000
9	Gaur River Village - Kalyanpur Khasra No. - 121	0.292	99.31	29000	7700 x 1	7700	10780	42861	0	0
10	Narmada River Village - Kushli Khasra No. - 481	0.495	90.91	45000	4000 x 0.5	2000	2800	No Production has been done due to absence of Environment clearance		
11	Narmada River Village - Mudkatiya Khasra No. - 1	0.502	119.52	60000	10000 x 0.5	5000	7000	149	15	36094
12	Narmada River Village - Dharti Kachhar Khasra No. - 1	0.345	115.94	40000	11100 x 3	33300	46620	No Production has been done due to absence of Environment clearance		
13	Hiran River Village - Bhairavghat Khasra No. - 98	0.355	56.33	20000	6200 x 0.7	4340	6076	56596	21543	0
14	Narmada River Village - Neemkheda Khasra No. - 326	0.35	114.28	40000	5800 x 2	11600	16240	26613	16	0
15	Narmada River Village - New Chargawa Khasra No. - 414	1.104	121.10	133700	16000 x 0.5	8000	11200	No Production has been done due to absence of Environment clearance		


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16	Narmada River Village - Barbatu Khasra No. - 484	0.579	103.62	60000	20000 x 0.5	10000	14000	No Production has been done due to absence of Environment clearance	
17	Narmada River Village - Jugpura Khasra No. - 124	1.41	90.67	127850	76710 x 1.25	95887.5	134242.5	No Production has been done due to absence of Environment clearance	
18	Narmada River Village - Dharanpura Khasra No. - 415	0.472	63.56	30000	18000 x 2	36000	50400	0	0
19	Narmada River Village - Malkachhar Khasra No. - 152	0.455	43.95	20000	10000 x 1	10000	14000	52595	45371
20	Narmada River Village - Bhadpura Khasra No. - 483	0.428	105.14	45000	8000 x 0.5	4000	5600	No Production has been done due to absence of Environment clearance	
21	Narmada River Village - Ramkhiriya Khasra No. - 300	0.226	95.13	21500	10000 x 0.5	5000	7000	No Production has been done due to absence of Environment clearance	
22	Narmada River Village - Khairi Khasra No. - 151	0.332	120.48	40000	5500 x 1	5500	7700	No Production has been done due to absence of Environment clearance	
23	Narmada River Village - Belkhedhi Khasra No. - 339	1.33	101.12	134500	80000 x 1	80000	112000	19360	25158
24	Narmada River Village - Kundakalan Khasra No. - 558	1.292	77.40	100000	40000 x 0.5	20000	28000	No Production has been done due to absence of Environment clearance	

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25	Hiran River Village - Pondi Kalan Khasra No. - 229	0.76	52.63	40000	9300 x 0.5	4650	6510	No Production has been done due to absence of Environment clearance		
28	Hiran River Village - Malakhurd Khasra No. - 1	0.61	32.78	20000	6400 x 0.75	4800	6720	No Production has been done due to absence of Environment clearance		
27	Hiran River Village - Pondi Khurd Khasra No. - 188	0.796	50.25	40000	8200 x 0.5	4100	5740	No Production has been done due to absence of Environment clearance		
28	Hiran River Village - Kaimori Khasra No. - 181, 87	0.55	36.36	20000	4100 x 0.5	2050	2870	No Production has been done due to absence of Environment clearance		
29	Hiran River Village - Chhituraha Khasra No. - 1	0.554	36.10	20000	8100 x 1.5	12150	17010	3049	43098	0
30	Hiran River Village - Gadaghat Khasra No. - 1	0.56	35.71	20000	4000 x 1	4000	5600	No Production has been done due to absence of Environment clearance		
31	Hiran River Village - Mahunkheda Khasra No. - 42, 1	0.603	33.16	20000	7900 x 2	15800	22120	26102	29068	14318
32	Hiran River Village - Amakheda Khasra No. - 1	0.154	51.94	8000	4800 x 1.25	6000	8400	1003	20230	3171
33	Hiran River Village - Joorikalan Khasra No. - 2	1.825	32.87	60000	11000 x 0.5	5500	7700	No Production has been done due to absence of Environment clearance		
34	Hiran River Village - Mandwa Khasra No. - 86	0.511	39.14	20000	8000 x 0.5	4000	5600	No Production has been done due to absence of Environment clearance		


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35	Hiran River Village - Ghorakoni Khasra No. - 48	0.576	34.72	20000	8000 x 0.5	4000	5600	No Production has been done due to absence of Environment clearance		
36	Hiran River Village - Madha Khasra No. - 1	0.191	52.35	10000	3200 x 1.25	4000	5600	No Production has been done due to absence of Environment clearance		
37	Hiran River Village - Deorikanhai Khasra No. - 782	0.335	59.70	20000	8400 x 0.5	4200	5880	28729	21453	7493
38	Hiran River Village - Bindali Khasra No. - 180	0.257	38.91	10000	6000 x 1.7	10200	14280	No Production has been done due to absence of Environment clearance		
39	Hiran River Village - Magarkata Khasra No. - 191	0.368	54.34	10000	3000 x 1	3000	4200	No Production has been done due to absence of Environment clearance		
40	Hiran River Village - Mandla Khasra No. - 91/274	0.412	24.27	10000	6000 x 2	12000	16800	673	2367	17419
41	Hiran River Village - Khakara Khasra No. - 201	0.506	39.52	20000	5000 x 1	5000	7000	No Production has been done due to absence of Environment clearance		
42	Narmada River Village - Pawla Khasra No. - 397	1.175	126.98	149200	40000 x 0.5	20000	28000	No Production has been done due to absence of Environment clearance		
	Total	24.923 (Approx)	71.18 avg. (Approx)	----	---	579191.5	810868.1	331776	288727	155419

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MINERAL POTENTIAL


Annexure - 4


BOULDER (MT)	BAJRI (MT)	SAND (MT)	TOTAL MINEABLE MINERAL POTENTIAL 60% (MT)
NIL	NIL	1351447	810868.1

ANNUAL DEPOSITION

Annexure - 5

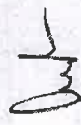
BOULDER (MT)	BAJRI (MT)	SAND (MT)	TOTAL MINEABLE MINERAL POTENTIAL 60% (MT)
NIL	NIL	1351447	810868.1



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Annexure - 6

Sr. No.	River or Stream	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession (in km)	Average Width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable Mineral Potential (in metric tonne) (60% of total mineral potential)
1	Narmada	Narmada	11.716	99.17	1161.876	810868.1
2	Hiran	Hiran	10.495	41.89	439.635	
3	Temur	Temur	0.978	84.28	82.425	
4	Gaur	Gaur	1.734	79.99	138.702	
Total for the District			24.923	305.33	7609.74	


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जिले में घोषित / स्वीकृत रेत खदानों की सूची (COMPARATIVE CHART)

क्र.	गाव/ खदान का नाम	तहसील	नदी का नाम	खसरा क्रमांक	पुराना रकबा (हे.)	नया रकबा (हे.)	पुरानी डी.एस आर के अनुसार गहराई मी.	नवीन डी.एस आर के अनुसार गहराई मी.	पूर्व डी. एस आर में स्वीकृत मात्रा (घ.मी.)	नवीन डी. एस आर अनुसार मात्रा (घ. मी.)	माइनेबल मात्रा में परिवर्तन (घ.मी.)	रिमांक
1.	सगडा झपनी	जबलपुर	नर्मदा	1 नया (पुराना 1/1)	2.023	2.023	3.0	3.0	36414	36414	0	खसरा में सुधार किया गया है। (खसरा क्र. 1/1 के स्थान पर खसरा क्र. 1 है)
2.	सालीवाडा	जबलपुर	नर्मदा	464	4.000	4.000	3.0	3.0	60000	60000	0	कोई परिवर्तन नहीं है।
3.	रीमा	जबलपुर	टेमर नदी	119	4.000	4.000	1.0	0.5	10080	3000	-7080	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10080 के स्थान पर 3000 है)
4.	सिलुवा	जबलपुर	टेमर नदी	103	4.000	4.000	1.0	0.5	10392	3000	-7392	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10392 के स्थान पर 3000 है)
5.	पारा	जबलपुर	नर्मदा नदी	436	6.500	6.500	0.5	0.35	5238	2000	-3238	खनिज मात्रा कम हुई है तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 5238 के स्थान पर 2000 है)

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6.	सलैया	जबलपुर	गौर नदी	241	7.000	4.000	0.50	0.50	5150	2000	-3150	पुल होने से प्रतिबंधित दूरी काटने पर रकबा 6.87 हेक्टर के स्थान पर 4.00 हेक्टर किया गया। खनिज मात्रा कम हुई है (खनिज मात्रा 5150 के स्थान पर 2000 है)
7.	खिरहनी कला	सिहोरा	हिरन नदी	271	2.000	2.000	1.0	1.5	10075	4000	-6075	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10075 के स्थान पर 4000 है)
8.	रानीपुर	कुण्डम	गौर नदी	428	5.000	5.000	1.0	0.5	5428	2000	-3428	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 5428 के स्थान पर 2000 है)
9.	कल्याणपुर	कुण्डम	गौर नदी	121	4.000	2.900	2.0	1.0	10226	7000	-3226	पुल होने से प्रतिबंधित दूरी काटने पर रकबा 4.000 हेक्टर के स्थान पर 2.900 हेक्टर किया गया एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है तथा खनिज मात्रा भी कम हुई है। (खनिज मात्रा 10226 के स्थान पर 7000 है)


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10.	कुशली	शहपुरा	नर्मदा	481	10.890	4.500	0.5	0.5	22866	2000	-20866	कार्यालयीन रिपोर्ट के आधार पर रकबा 10.890 हेक्टर के स्थान पर 4.50 हेक्टर किया गया। खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 22866 के स्थान पर 2000 है)
11.	मुडकटिया	शहपुरा	नर्मदा	1	6.000	6.000	0.5	0.5	5000	5000	0	केवल अक्षांश-देशांश का परिवर्तन हुआ है।
12.	धरतीकछार	शहपुरा	नर्मदा	1	4.000	4.000	3.0	3.0	40000	30000	-10000	केवल खनिज मात्रा कम हुई है। (खनिज मात्रा 40000 के स्थान पर 30000 है)
13.	भैरोघाट	शहपुरा	हिरन	98	2.000	2.000	0.7	0.7	20349	4000	-16349	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 20349 के स्थान पर 4000 है)
14.	नीमखेड़ा	शहपुरा	नर्मदा	326	22.070	4.000	2.0	2.0	60000	10000	-50000	पुल होने से प्रतिबन्धित दूरी काटने पर रकबा 22.070 हेक्टर के स्थान पर 4.000 हेक्टर किया गया एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है तथा खनिज मात्रा भी कम हुई है। (खनिज मात्रा 60000 के स्थान पर 10000 है)



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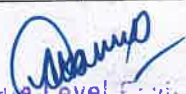
 Paryavaran Parishad, E-5, Arera Colony, Bhopal (M.P.)

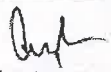
15.	चरगावा	शहपुरा	नर्मदा	414	13.370	13.370	0.5	0.5	19615	8000	-11615	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 19615 के स्थान पर 8000 है)
16.	बरबटी	शहपुरा	नर्मदा	484	6.000	6.000	1.0	0.5	10000	8000	-2000	केवल अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10000 के स्थान पर 8000 है)
17.	जुगपुरा	शहपुरा	नर्मदा	124	12.785	12.785	0.5	1.25	42928	71500	+28572	खनिज मात्रा में वृद्धि हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 42928 के स्थान पर 71500 है)
18.	धरमपुरा	शहपुरा	नर्मदा	415	3.000	3.000	3.0	2.0	45000	30000	-15000	केवल खनिज मात्रा कम हुई है तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 45000 के स्थान पर 30000 है)
19.	मालकणार	शहपुरा	नर्मदा	152	2.000	2.000	3.0	1.0	9428	8000	-1428	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 9428 के स्थान पर 8000 है)
20.	मडपुरा	शहपुरा	नर्मदा	483	13.240	4.500	0.5	0.5	32784	4000	-28784	पुल होने से प्रतिबन्धित दूरी काटने पर रकबा 13.240 हेक्टर के स्थान पर 4.500 हेक्टर किया गया एवं अक्षांश-देशांश में परिवर्तन हुआ है तथा खनिज मात्रा भी कम हुई है। (खनिज मात्रा 32784 के स्थान पर 4000 है)

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21.	स्वखिरिया	शहपुरा	नर्मदा	300	3.300	2.150	1.0	0.5	11392	5000	-6392	कार्यालयीन रिपोर्ट के आधार पर रकबा 3.30 हेक्टर के स्थान पर 2.15 हेक्टर किया गया एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है तथा खनिज मात्रा भी कम हुई है। (खनिज मात्रा 11392 के स्थान पर 5000 है)
22.	खैरी	शहपुरा	नर्मदा	151	4.000	4.000	1.0	1.0	23615	5000	-18615	केवल खनिज मात्रा कम हुई है। (खनिज मात्रा 23615 के स्थान पर 5000 है)
23.	बेलखेड़ी	शहपुरा	नर्मदा	339	13.450	13.450	2.0	1.0	60000	73000	+13000	खनिज मात्रा में वृद्धि हुई है तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 60000 के स्थान पर 73000 है)
24.	कूड़ा	शहपुरा	नर्मदा	558	10.000	10.000	0.5	0.5	32115	20000	-12115	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 32115 के स्थान पर 20000 है)
25.	पोड़ीकला	पाटन	हिरन नदी	229 नया पुराना 188)	4.000	4.000	0.5	0.5	9208	4000	-5208	खसरा क्रमांक 188 की जगह 229 होना पाया। खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 9208 के स्थान पर 4000 है)


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26.	मालाखुई	पाटन	हिरन नदी	1	2,000	2,000	1.0	0.75	10392	4000	-6392	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10392 के स्थान पर 4000 है)
27.	पोड़ी खुई	पाटन	हिरन नदी	188 नया (पुराना 229)	4,000	4,000	1.0	0.5	10178	4000	-6178	खसरा क्रमांक 229 की जगह 188 होना पाया। खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10178 के स्थान पर 4000 है)
28.	कैमोरी	पाटन	हिरन नदी	87	2,000	2,000	1.0	0.5	10808	2000	-8808	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। तथा खसरा हटाया गया है। (खनिज मात्रा 10808 के स्थान पर 2000 है) खसरा क्र. 181 एवं 87 के स्थान पर सिर्फ 87 लिया गया है खसरा क्र. 181 में से 181 नहीं होने से खसरा हटाया गया है।
29.	छिबुरहा	पाटन	हिरन नदी	1	2,000	2,000	2.0	1.5	20783	10000	-10783	केवल खनिज मात्रा कम हुई है तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 20783 के स्थान पर 10000 है)

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30.	गाड़ाघाट	पाटन	हिरन नदी	1	2.000	2.000	1.0	1.0	5250	4000	-1250	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 5250 के स्थान पर 4000 है)
31.	महुआखेड़ा	पाटन	हिरन नदी	42	2.000	2.000	2.0	2.0	15800	8000	-7800	खनिज मात्रा कम हुई है एवं खसरा हटाया गया है। (खनिज मात्रा 15800 के स्थान पर 8000 है) खसरा क्र. 42 एवं 01 के स्थान पर सिर्फ 42 लिया गया है खसरा क्र. 01 में रेत नहीं होने से खसरा हटाया गया है।
32.	आमाखेड़ा	पाटन	हिरन नदी	1	0.800	0.800	3.0	1.25	5163	4500	-663	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 5163 के स्थान पर 4500 है)
33.	जूरीकला	पाटन	हिरन नदी	2	6.000	6.000	0.5	0.5	5138	5000	-138	केवल खनिज मात्रा कम हुई है। (खनिज मात्रा 5138 के स्थान पर 5000 है)
34.	मडवा	पाटन	हिरन नदी	86	2.000	2.000	1.0	0.5	15000	4000	-11000	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 15000 के स्थान पर 4000 है)


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35.	घोराकोनी	सिहोरा	हिरन नदी	48	2.000	2.000	1.0	0.5	9688	4000	-5688	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 9688 के स्थान पर 4000 है)
36.	मढ़ा	सिहोरा	हिरन नदी	1	1.000	1.000	2.0	1.25	5563	4000	-1563	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 5563 के स्थान पर 4000 है)
37.	देवरी	सिहोरा	हिरन नदी	782	2.000	2.000	3.0	0.5	8500	2000	-6500	केवल खनिज मात्रा कम हुई है तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 8500 के स्थान पर 2000 है)
38.	बिंदुली	मझौली	हिरन नदी	180	1.000	1.000	2.0	1.7	15000	10000	-5000	केवल खनिज मात्रा कम हुई है तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 15000 के स्थान पर 10000 है)
39.	गारकटा	मझौली	हिरन नदी	191	1.000	1.000	2.0	1	10808	3000	-7808	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश तथा गहराई में परिवर्तन हुआ है। (खनिज मात्रा 10808 के स्थान पर 3000 है)
40.	मंडला	मझौली	हिरन नदी	91/ 274	1.000	1.000	2.0	2	18000	10000	-8000	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 18000 के स्थान पर 10000 है)

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41.	खखरा	मझौली	हिरन नदी	201	2.000	2.000	1.0	1.0	10428	5000	-6428	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 10428 के स्थान पर 5000 है)
42.	पावला	भाहपुरा	नर्मदा	397	14.920	14.920	0.5	0.5	37438	20000	-17438	खनिज मात्रा कम हुई है एवं अक्षांश-देशांश का परिवर्तन हुआ है। (खनिज मात्रा 37438 के स्थान पर 20000 है)
			कुल रकबा						579000	510414		

नोट:- जिले में 05 रेत खदानें कम हुई हैं, जिसका विवरण निम्नानुसार है-

1. रेत खदान खिन्नी का खसरा निजी भूमि होने तथा नदी क्षेत्र नहीं होने से समाप्त हुई है।
2. रेत खदान भण्डरा में मौका जॉब अनुसार खदान पर रेत उपलब्ध नहीं होने तथा वन विभाग की आपत्ति होने से समाप्त की गई।
3. रेत खदान सनकुही वन भूमि में होने तथा मौका जॉब अनुसार खदान पर रेत उपलब्ध नहीं होने से समाप्त की गई।
4. रेत खदान पथरिया एवं रैपुरा में पुल निर्मित होने के कारण समाप्त की गई।

इस प्रकार जिले में स्वीकृत/आवंटित कुल 47 खदानों में से अंतिम रूप से 42 रेत खदानें शेष है।




खनि अधिकारी
जिला जबलपुर (म.प्र.)



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