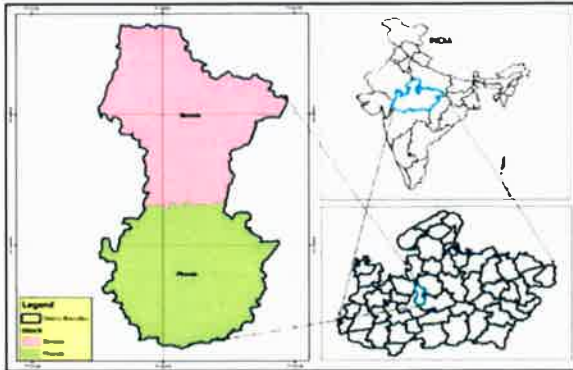



# DISTRICT SURVEY REPORT (SAND MINERAL) 2022 BHOPAL, M.P.



## In Situ Enviro Care

**In Situ Enviro Care**  
**E-7/829, Shahpura,**  
**Arera Colony,**  
**Bhopal 462016**  
**(M.P.)**  
**QCI Accredited**  
**Consultant**  
**NABET/EIA/1821/RA**  
**0070 (Rev. 02)**  
**18/02/2022**

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 keeping in mind the "Sustainable Sand Management Guidelines 2016" which focuses on the Management of Sand Mining in the Country and "Enforcement & Monitoring Guidelines for Sand Mining-2020" which focus on prevention of illegal mining in the country.

  
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Assessment Authority, M.P.  
E-5, Ashok Nagar, Bhopal (M.P.)

# कार्यालय कलेक्टर (खनिज शाखा) जिला भोपाल म.प्र.

क्रमांक 2435/खनिज/2022

भोपाल दिनांक :- 17/08/2022

प्रति,

✓ सदस्य सचिव,  
राज्य सचिवालय,  
पर्यावास परिसर, जिला भोपाल।

AHM


विषय:- 587 वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 02 अगस्त 2022 एवं 589 वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 17 अगस्त 2022 के संबंध में।

संदर्भ:- आपके द्वारा दिये गये निर्देश दिनांक 02.08.2022 एवं 17.08.2022

उपरोक्त विषयांकित निवेदन है कि 587 वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की दिनांक 02.08.2022 एवं 589 वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की दिनांक 17.08.2022 को आयोजित बैठक में जिला भोपाल की नवीन जिला सर्वेक्षण रिपोर्ट 2022 (रेत खनिज) के संबंध में सुझाई गई अनुशंसाओं के तारतम्य में जानकारी तैयार कर अपडेट किये जाने हेतु निर्देशित किया गया है।

अतः जिला सर्वेक्षण रिपोर्ट को समिति द्वारा सुझाई गई अनुशंसाओं को बिन्दुवार अपडेट किया जाकर डी.एस.आर. रिपोर्ट आगामी कार्यवाही हेतु आपकी ओर सादर प्रेषित है।

संलग्न - उपरोक्तानुसार।

  
प्रभारी अधिकारी  
(खनिज)  
जिला भोपाल

पृ.क्रमांक / खनिज / 2022  
प्रतिनिधि:-

भोपाल दिनांक:-

सदस्य सचिव, सिधा सचिवालय, पर्यावास परिसर, जिला भोपाल की ओर सूचनार्थ प्रेषित।

  
प्रभारी अधिकारी  
(खनिज)  
जिला भोपाल

# District Survey Report: Bhopal

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## District Survey Report: Bhopal

### 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, 25<sup>th</sup> 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.
- Illegal and uncontrolled illegal mining also leads to loss of revenue to the State and degradation of the environment.

# District Survey Report: Bhopal

## 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.**
- **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.**

  
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## Surrounding Districts

Bhopal is a district of Indian state of Madhya Pradesh. The headquarters of the district is Bhopal which is also the state capital. Guna district in the north of Bhopal district, Vidisha district in North-Eastern, Raisen district in the east and south-east, Sehore district in south and south-west and Rajgarh district in north-west. Bhopal district, spanning over an area of about 2772 km<sup>2</sup>, lies in the central part of the state of Madhya Pradesh. The district lies between North latitude 23°05' and 23°54' and east longitude 77°10' and 77°40', falling in Survey of India Topo sheet No. 55 E.

## General Features

**Table 1 Administrative Setup of the District**

SUB-DIVISION	TEHSIL	BLOCKS
Huzur	Huzur	Phanda
Berasia	Berasia	Berasia
	Kolar	





# District Survey Report: Bhopal

## Location of the District

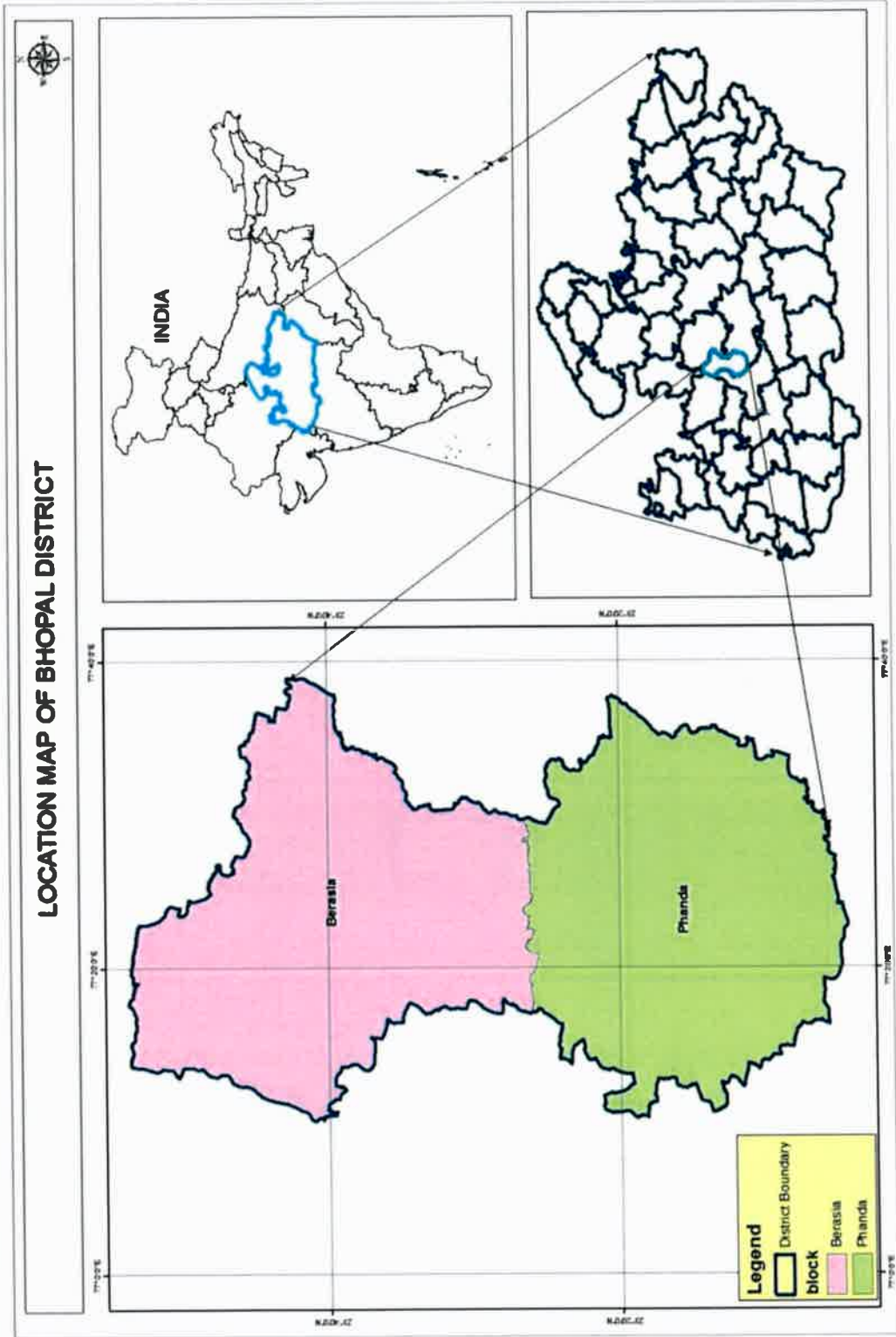


Figure 1 Location Map of the District

*Signature*  
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# District Survey Report: Bhopal

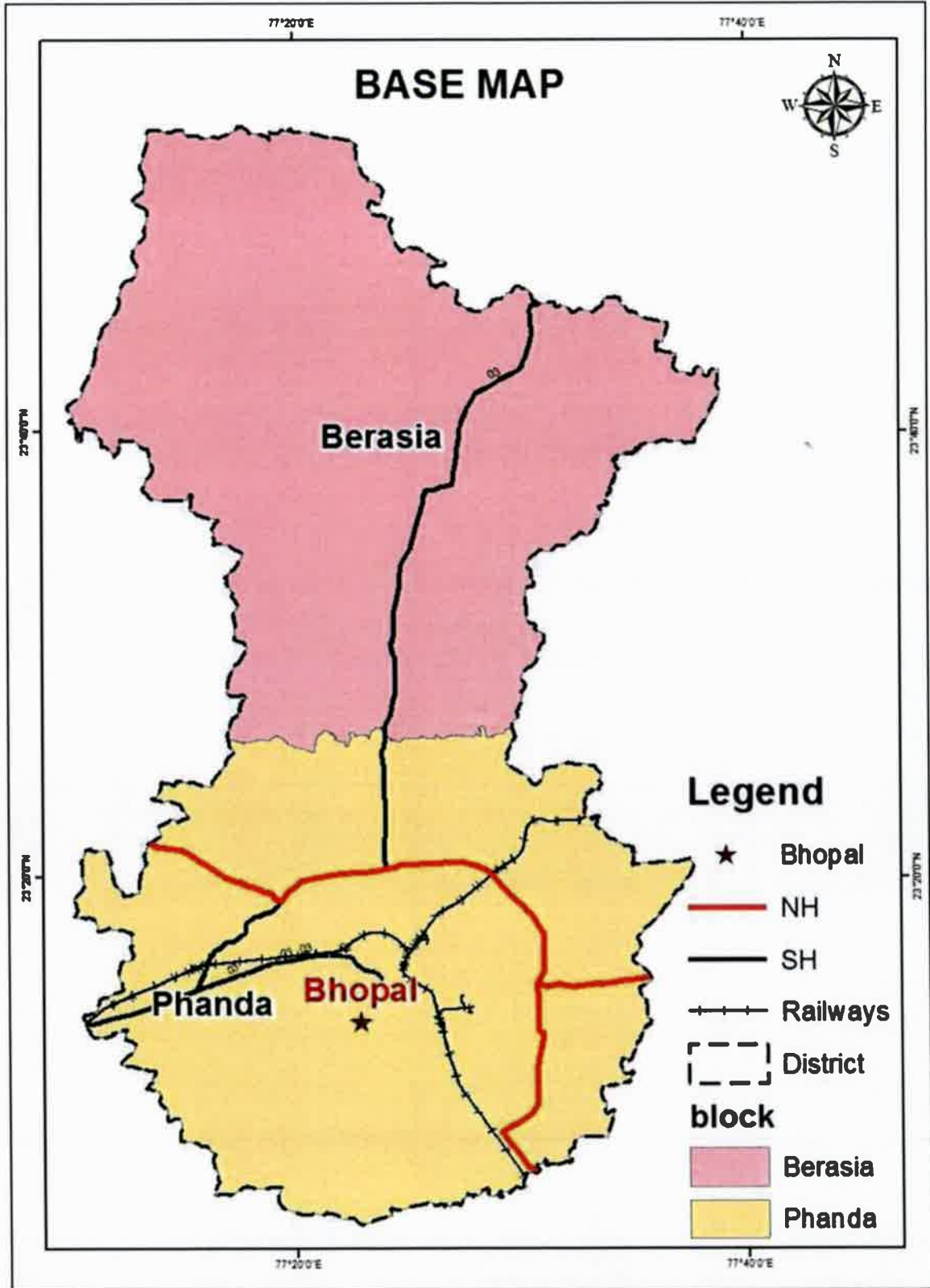


Figure 2 Base Map of the District

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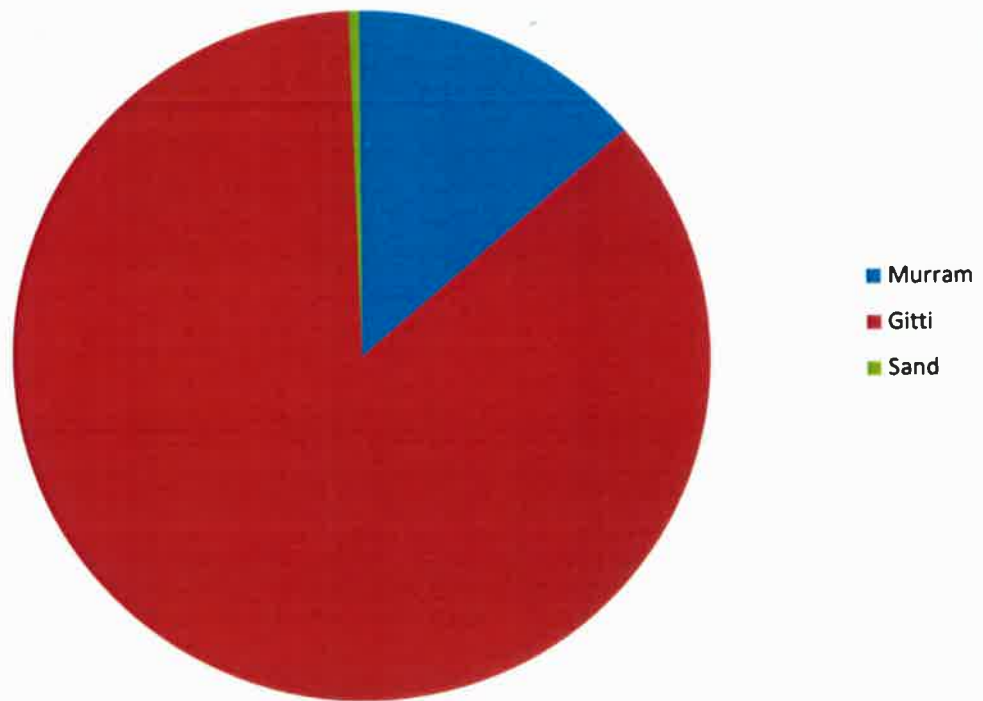
## 2 Overview of Mining Activity in the District


The mineral found in the district does not include any major minerals. The minor minerals found in the district are Stone, Murum and Sand.

Table 2 Mineral Production in the District

Sr. No.	Mineral Production in Year 2021-22	Production in Cubic Meter
<b>Minor Mineral</b>		
1.	Stone	931353.60
2.	Murum	149559.56
3.	Sand	4000.00

Mineral Production in District Bhopal in Year 2021-2022



  
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## 3 List of the Letter of the Intent Holder and Details of the existing Lease in the District

Table 3 Sand Mines in the District

S.no.	Name and Address of the Lessee	Name of the Village	Tehsil	Khasra no.	Area (In Hect.)	Lease Period	Coordinates
1	M/s Rao Construction Shri Heamraj Rao	Manpura	Berasia	1&38	5.00	30.05.2020 to 30.06.2023	23°45'35.79" N 77°31'58.33" E 23°45'36.90" N 77°31'58.34" E 23°45'36.65" N 77°32'09.45" E 23°45'27.11" N 77°32'18.72" E 23°45'20.06" N 77°32'25.08" E 23°45'25.42" N 77°32'37.47" E 23°45'23.94" N 77°32'37.76" E 23°45'18.90" N 77°32'24.97" E 23°45'26.36" N 77°32'17.74" E 23°45'34.59" N 77°32'08.89" E
2	M/s Rao Construction Shri Heamraj Rao	Ghoghajpur	Berasia	26	5.00	30.05.2020 to 30.06.2023	23°49'20.16" N 77°13'27.51" E 23°49'23.58" N 77°13'28.74" E 23°49'40.48" N 77°13'29.45" E 23°49'40.53" N 77°13'32.07" E 23°49'38.53" N 77°13'31.72" E 23°49'24.06" N 77°13'32.27" E 23°49'20.06" N 77°13'30.55" E

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# District Survey Report: Bhopal


Table 4 Stone/Gitti and Murum Mines in the District

S. No	Name and Address of the Lessee	Name of the Mineral	Khasra Number	Area	Village/ Tehsil	Validity of the Lease	Operational / Non-Operational
1.	Mohammad Rizwan Khan S/o Shri Sagir Mohammad R/o 72, Congress Nagar, Berasia Road Bhopal	Stone for Crusher	267, 68/1, 274, 275/1/1	2.510	Chandbad Kadim/Berasia/ Shaskiya	20-01-2012 to 19-01-2022	Non-Operational
2.	Shri Yogesh Tripathi R/o Junior MIG-15 Aakash Ganga Colony Shahpura Bhopal	Stone for Crusher	104/1	3.000	Dhamniya/ Huzur/ Shaskiya	12-05-2016 to 11-05-2026	Non-Operational
3.	Shri K.P. Shrivastava S/o N.P. Shrivastava H-379, Gautam Nagar, Govindpura Bhopal	Stone for Crusher	611	1.820	Sarvar/ Huzur/ Shaskiay	21-09-2011 to 20-09-2021	Operational
4.	Shri Joheb Khan R/o 49 Choprakala Vidisha Road District Bhopal MP	Stone for Crusher	131	2.850	Rojive/ Huzur/ Shaskiya	30-04-2012 to 29-04-2022	Non-Operational
5.	Veer Singh Metals District Bhopa MP	Stone for Crusher	48/1/Ch	2.000	Ratua Ratanpur/ Berasia/ Shaskiya	20-01-2012 to 19-01-2022	Operational

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6.	Shri Bablu Khan S/o ShriDhanne Khan R/o Village Babchiya Tehsil Berasia District Bhopal	Stone for Crusher	577/1/1kh	1.000	Babchiya/ Berasia/ Shaskiya	03-06-2014 to 02-06-2024	Operational
7.	Shri Lakhanlal Sharma S/o Shri Bhagirath Sharma R/o Village and Post Ratibad Tehsil Huzur Bhopal	Stone for Crusher	143, 145	2.31	Chhapari/ Huzur	07-10-2012 to 06-10-2022	Operational
8.	Stag Infrastructure Pvt.Ltd. Pro. Sandeep SoodE/18 Arera Colony Bhopal	Stone for Crusher	196/1/1, 196/1/2	3.532	Ratua Ratanpur/ Berasia/ Shaskiya	10-10-15 to 09-10-25	Operational
9.	Shrimati Rekha Rai S/o Shri Rakesh Rai R/o Bhopal	Stone for Crusher	07	3.500	Rasuliya Pathar/ Huzur/Shaskiya	02-11-2012 to 01-11-2022	Operational
10.	Shrimati Ruma Malik W/o Shri Praveen MalikR/o 16, Rij Road, Idgah Hills, Bhopal MP	Stone for Crusher	346	4.000	Pardi/ Berasia/ Shaskiya	20-02-2012 to 19-02-2022	Operational
11.	Shri Bharat Malik S/o Shri Praveen Malik R/o 16, Rij Road, Idgah Hills, Bhopal MP	Stone for Crusher	347	4.000	Pardi/ Berasia/ Shaskiya	20-02-2012 to 19-02-2022	Operational

  
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12.	Shri Devendra Trigunayak S/o Shri S.K.Trigunayak R/o 108, Ramanand Nagar Lalghati Bhopal	Stone for Crusher	507	3.000	Parvaliya Sadak/ Huzur/Shaskiya	27-03-2013 to 26-03-2023	Operational
13.	Komal Singh S/o Shri Bhim Singh R/o 161 Sidharth Lake City Anand Nagar Bhopal	Stone for Crusher	363/1, 363/2, 361/1/2, 36/2, 362/1, 362/2	4.000	Chandbad Kadim/ Berasia/ Niji	30-05-2014 to 29-05-2024	Operational
14.	Shri Sohel Khan S/o Shri Esmile Khan R/o 27 Chataipura Budhwara Bhopal	Stone for Crusher	435, 436	1.920	Jaitpura/ Berasia/ Niji	21-10-2013 to 20-10-2023	Operational
15.	Shri Sudhir Kuamr Jain S/o Shri Nathmal Jain R/o H-4, Stuling Green View Kolar Road Bhopal	Stone for Crusher	190/1/2, 191/2	1.200	Chhapri/ Huzur/ Niji	28-06-2013 to 27-06-2023	Operational
16.	Sahaj Crusher Partner Shri Sanjeev Choksey R/o 14, Jain Colony Vidisha Road Berasia District Bhopal	Stone for Crusher	110/10/1	1.135	Imliya Swaroop/ Berasia/ Shaskiya	05-05-2013 to 04-05-2023	Non- Operational



# District Survey Report: Bhopal

17.	Shrimati Sangeeta Sarraf W/o Shri Manoj Sarraf R/o 3-2/16, Aera Colony District Bhopal	Stone for Crusher	148	2.400	Chhapri/ Huzur/ Niji	14-10-15 to 13-10-25	Operational
18.	Shri Pawan Bhadoriya S/o Shri N.K. Bhadoriya R/o E-6, Kotra Sultanabad Bhopal	Stone for Crusher	201/1	1.050	Ratua Ratanpur/ Barasiya/ Niji	31-03-2013 to 30-03-2023	Operational
19.	Shri Satyendra Kuamr Jain S/o Shri Premchand Jain, R/o M.X. 130, E-7, Aera Colony Bhopal	Stone for Crusher	17	4.800	Bansiya/ Huzur/ Shaskiya	18-05-2015 to 17-05-2025	Operational
20.	Suresh Lahoti S/o Shri Nathmal Ji Lahoti R/o E7/1/6 Lala Lajpatrai Society Aera Colony Bhopal	Stone for Crusher	99	4.000	Kalkheda/ Huzru	23-06-2014 to 22-06-2024	Operational
21.	Sahara Stone Crusher Pro. Ish Kumar E-2/42, Aera Colony Bhopal	Stone for Crusher	569, 570, 571, 572, 573, 560/1/2	1.915	Sarvar/ Huzur	22-01-2014 to 21-01-2024	Operational
22.	Shri Satyendra Singh S/o Shri Bhagwan Singh R/o Gram Mangalgad Post Berasia Bhopal	Stone for Crusher	587/1/1K/1/1	2.000	Ruhana/ Berasia/ Shaskiya	15-12-2014 to 14-12-2024	Operational



## District Survey Report: Bhopal

23.	Shri Yawar Mohammad Khan S/o Shri Anwar Mo. Khan NRI Colony Kohefiza, Bhopal	Stone for Crusher	818, 847/1, 851, 852, 853,	4.000	Hinoti Sadak/ Berasia/Niji	17-07-15 to 16-07-25	Operational
24.	Govind Singh Yadav S/o Shri S.S. Yadav C- 55 Padamnabh Nagar Bhopal	Stone for Crusher	297	2.000	Chandbad Kadim/Berasia/ Shaskiya	25-06-15 to 24-06-25	Operational
25.	Govind Singh Yadav S/o Shri S.S. Yadav C- 55 Padamnabh Nagar, Raisen Road, Bhopal	Stone for Crusher	192, 193	2.000	Chhapri/ Huzur/ Niji	12-05-2015 to 11-05-2025	Operational
26.	Gurjeet Singh Kalra R/o Shri Amarjeet Singh Kalra 106 Shahanshah Garden Punjabi Bag Bhopal	Stone for Crusher	379/2/2, 384/1, 385, 393	2.000	Chandbad Kadim/Berasia/ Shaskiya	04-08-15 to 03-08-25	Operational
27.	Yawar Mo. Khan S/o Anwar Mo. Khan R/o H.C. 49 NRI Colony Kohefiza Bhopal	Stone for Crusher	854	3.830	Hinoti Sadak/ Berasia/ Saskiya	01-09-2015 to 30-08-2025	Operational

  
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28.	Shrimati Richa Singh W/o Shri Rishi Kumar Singh R/o Pai Education 22 Pratham Tal Nadeem Complex Zone- 1 MP Nagar Bhopal	Stone for Crusher	88	2.000	Jhiraniya/ Huzur/ Shaskiya	22-06-2015 to 21-06-2025	Operational
29.	Rabpreet Singh Kalra S/o Shri Ranjeet Singh Kalra 106 Shahanshah Garden Punjabi Bagh Garden	Stone for Crusher	379/2/3, 383, 384/2, 395/1/1	2.000	Chandbad Kadim/Berasia/ Shaskiya	04-08-15 to 03-08-25	Operational
30.	Shri Hatesingh Solanki S/o Shri Takhatsingh Solanki Tehsil Berasia District Bhopal	Stone for Crusher	212/1	4.000	Khajuriya Kala/ Berasia/ Shaskiya	16-11-15 to 15-11-25	Operational
31.	Suresh Lahoti S/o Late Shri Nathmal Ji Lahoti R/o E- 7/1/6 Lala Lajpatrai Society Arera Colony Bhopal M/s Balaji Stone Crusher Pro. Ramesh Yadav R/o 7 Sahakari Parisar Kalpana Nagar Bhopal	Stone for Crusher	146	1.890	Chhapri/ Huzur Niji	16-05-2016 to 15-05-2026 (Renewed)	Operational
		Stone for Crusher	57/1 New Number 131	1.560	Rojive/ Huzur/ Shaskiya	25-03-2016 to 24-03-2026	Operational

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33.	Shrimati Khushboo Singh W/o Shri Nikhil Kumar Singh R/o Shop No. 7, Press Complex, Zone-1 M.P. Nagar Bhopal	Stone for Crusher	244	9,000	Kardai/ Huzur/ Shaskiya	02-05-2015 to 01-05-2025	Non-Operational
34.	Shri Vishal Yadav S/o Shri Banwari Lal Yadav R/o M. No. 95, Sairam Colony, Semrakala, Bhopal	Stone for Crusher	244	9,000	Kardai/ Huzur/ Shaskiya	02-05-2015 to 01-05-2025	Operational
35.	Shri Nikhil Kumar Singh S/o Shri Premshankar Singh R/o Shop No. 7, Press Complex, Zone 1 MP Nagar Bhopal	Stone for Crusher	244, 245	9,000	Kardai/ Huzur/ Shaskiya	02-05-2015 to 01-05-2025	Operational
36.	Govind Singh Yadav S/o Shri S.S. Yadav C-55 Padamnabhan Nagar Bhopal	Stone for Crusher	325, 326, 327	2,000	Chandbad Kadim/Berasia Shaskiya	27-11-2015 to 26-11-2025	Operational
37.	Meenu Yadav W/o Shri Govind Singh Yadav C-55 Padamnabh Nagar Bhopal	Stone for Crusher	328, 329	1,920	Chandbad Kadim/Berasia Shaskiya	10-12-15 to 09-12-25	Operational

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38.	Shrimati Radhika Sharma W/o Shri Rajesh Sharma R/o B-11 Kasturba Nagar Bhopal	Stone for Crusher	596/3/2, 59/92 and 597	1.779	Sarvar/ Huzur/ NijiBhoomi	29-05-2013 to 28-05-2023	Operational
39.	Shri Nikhil Kumar Singh S/o Shri Premshankar Singh R/o M.I.G. 28 Pratam Tal, Gomati Colony Nehru Nagar Bhopal	Stone for Crusher	346	4.000	Pardi/ Berasia Shaskiya	19-02-2015 to 18-02-2025	Operational
40.	Shri Vishal Yadav S/o Shri Banwari Lal Yadav R/o District Bhopal	Stone for Crusher	298	3.000	Pardi/ Berasia Shaskiya	08-10-15 to 07-10-25	Operational
41.	Shrimati Ketki Sood W/o Shri Kunal Sood R/o E-2/42, Arera Colony Bhopal	Stone for Crusher	3	2.620	Neelbad/ Huzur Shaskiya	30-08-2016 to 29-08-2026	Non- Operational
42.	M/s Sahhog Metals Partner Kunal Sood R/o E 2-42 Arera Colony Bhopal	Stone for Crusher	448	4.000	Barkheda Nathu/ HuzurShaskiya	30-05-2017 to 29-05-2027 (Renewed)	Operational



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43.	Shri Vishal Chouksey S/o Shri Gaya Prasad Choksey Nagar Berasia Bhopal	Stone for Crusher	366/1, 366/2, 367, 368/2	2.404	Chandbad Kadim/ Berasia (Niji)	26-11-2015 to 25-11-2025	Operational
44.	Rajesh Sharma S/o P.N.Sharma R/o B-11 Kasturba Nagar Bhopal	Stone for Crusher	271 (New No. 607)	2.753	Sarbar/ Huzur Shaskiya	26-03-2018 to 25-03-2028 (Renewed)	Operational
45.	Shri Subash Sharma R/o Gram Neelbad Tehsil Huzur District Bhopal	Stone for Crusher	725	1.750	Sinkandarabad/ Huzur Shaskiya	17-09-2016 to 16-09-2026 (Renewed)	Operational
46.	Shrimati Rachna Choksey W/o Shri Gayaprasad Choksey R/o M.N. 181, Choksey Nagar Berasia Road Bhopal	Stone for Crusher	3	4.000	Neelbad/ Huzur Shaskiya	23-12-2015 to 22-12-2025 (Renewed)	Non-Operational
47.	Shri Mahendra Kumar Mittal S/o Shei B.D. Mittal C-8 B.D.A. Colony 6 No. Stop Bhopal	Stone for Crusher	236	2.429	Shahpur/ Huzur Shaskiya	08-04-2013 to 07-04-2023 (Renewed)	Operational
48.	Shri Subash Sharma S/o Hariram Sharma R/o Gram Neelbad Tehsil	Stone for Crusher	814, 815, 816	2.180	Sinkandarabad/ Huzur Shaskiya	17-09-2016 to 16-09-2026 (Renewed)	Operational

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49.	M/s Ram Stone Crushing Partner Shankarlal Panjwani R/o 30, Chetak Complex Zone-2 MP Nagar Bhopal	Stone for Crusher	620/1/1/1 and 620/1/1/2	3.450	Parwaliya Sadak/ Huzur Niji	16-05-2016 to 17-05-2026 (Renewed)	Operational		
50.	Shri Govind Singh Yadav S/o Shri Sohan Singh Yadav R/o C-55 Padmanabh Nagar Raisen Road Bhopal	Stone for Crusher	147	1.030	Chhapri/ Huzur Niji	18-07-2016 to 17-07-2026	Operational		
51.	M/s MP Minerals Partner Shri Prashant Chandel R/o 301, C-2 Aishwarya Chamber G. I. Road Selabad Raipur C. G.	Stone for Crusher	88/1/2	3.600	Parwaliya Sadak/ Huzur Shaskiya	04-10-2016 to 03-10-2026	Operational		
52.	Friends Associate Partner Sandeep Sood R/o Junior MIG E-3/18 Aera Colony Bhopal	Stone for Crusher	270	1.500	Malikheddi/ Huzur Shaskiya	05-11-2016 to 06-11-2026	Operational		
53.	Shrimati Sharma W/o Shri Rakesh Sharma R/o Didhya-78 Vishnu Hightek City Bhopal	Stone for Crusher	244	7.000	Kardai/ Huzur Shaskiya	04-07-2016 to 03-07-2026	Non- Operational		

  
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54.	Basant Tiwari S/o Late Shri C. M. Tiwari R/o A-3/104, Vishnu Hightech City Bhopal	Stone for Crusher	244	5.540	Kardai/ Huzur Shaskiya	04-07-2016 to 03-07-2026	Non- Operational
55.	Shri Nikhil Kumar Singh S/o Shri Premshankar Singh R/oMIG 28 Pratam Tal Gomti Colony Nehru Nagar Bhopal	Stone for Crusher	346, 347, 358	2.190	Pardi/ Berasia Shaskiya	17-08-2016 to 16-08-2026	Operational
56.	Shrimati Meena Mishra W/o Shri Arun Mishra R/o M.no. 60, Patrakar Colony Link Road-3 Bhopal	Stone for Crusher	8331/1 old 833/3/5	2.000	Tumda/ Huzur Shaskiya	10-01-2017 to 09-01-2027 (Renewed)	Non- Operational
57.	Shri Rahul Pritmani S/oShri Dilip Pritmani R/oB-94 Vijay Nagar Lalghati Bhopal	Stone for Crusher	610	1.000	Parwaliya Sadak/ Huzur Shaskiya	04-10-2016 to 03-10-2026 (Renewed)	Operational
58.	Shri Dilip Pritmani S/o Shri Panjumar Pritmani R/o B-94 Vijay Nagar Lalghati Bhopal	Stone for Crusher	6/2	2.520	Rasuliya Pathar/ Huzur Shaskiya	27-12-2013 to 26-12-2023 (Renewed)	Operational

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59.	Rahul Pritmani S/o Shri Dilip Kumar Pritmani R/o B-94 Vijay nagar Lalghati Bhopal	Stone for Crusher	609	4.000	Parwaliya Sadak/ Huzur Shaskiya	26-12-2015 to 25-12-2025	Operational
60.	Shri Jhanak Singh S/o Late Shri ParvatSingh R/o 126 Kalpana Nagar BHEL Bhopal	Stone for Crusher	130	3.056	Rojive/ Huzur Shaskiya	19-06-2017 to 18-06-2027 (Renewed)	Operational
61.	Shri Ram Prasad Thakur S/o Late ShriParvat Singh ThakurR/o Gram and Post Kotuakhurd Tehsil Huzur District Bhopal	Stone for Crusher	114, 130	2.500	Rovije/ Huzur Shaskiya	28-07-2018 to 27-07-2028 (Renewed)	Operational
62.	Shrimati Rajdulari Parashar W/o Sanjay Parashar, R/o Gram Kalkheda, Post- Ratibad, Tehsil Huzur	Stone for Crusher	583/1,2 584/1/2, 584/1/3, 592/1, 2 593/1, 2 596/1, 2	3.440	Sarvar/ Huzur Niji	24-12-2016 to 23-12-2026	Operational

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63.	Shri Radhika Sharma W/o Shri Rajesh Sharma R/o B-11 Kasturba Nagar Bhopal	Stone for Crusher	240	4.000	Malikheda/ Huzur Shaskiya	22-03-2018 to 21-03-2028 (Renewed)	Operational
64.	Shri Deepak Tulsani S/o Shri Gopichand Tulsani R/o M-114, Laxmi Niwas Tila Jamalpur Distrit Bhopal	Stone for Crusher	133	4.000	Rolukheda/ Huzur Shaskiya	28-10-2016 to 27-10-2026	Non- Operational
65.	Friends Association partner Sandeep Sood R/o Junior MIG E-3/18 Aera Colony Bhopal	Stone for Crusher	270	4.000	Malikheda/ Huzur Shaskiya	11-01-2017 to 10-01-2027 (Renewed)	Operational
66.	Shrimati Seema Kaushik W/o Shri Anup Kaushik R/o F 120/23 Shivaji Nagar Bhopal	Stone for Crusher	833/1/2/1k old no.833/3/1, 833/3/2	3.000	Tumda/ Huzur Shaskiya	14-06-2015 to 13-06-2025 (Renewed)	Operational
67.	Shri Harish Malviya S/o Shri N.L. Malviya R/o E-7/92 Ganga Apartment Lajpatrai Society Aera Colony Bhopal	Stone for Crusher	835/1, 835/2	1.800	Hinoti Sadak/ Berasia Niji	25-01-2017 to 24-01-2027	Operational

  
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68.	Shri Rajesh Sharma R/o B-11 Kasturba Nagar Near Chetak Bridge Bhopal	Stone for Crusher	211 and 240	4.000	Malikhedi/ Huzur Shaskiya	24-01-2018 to 23-01-2028 (Renewed)	Operational
69.	Shri Mayank Mishra S/o Shri N.M. Mishra R/o M. No. 45, Ambedkar Nagar Bhopal	Murum/ Kopro	238/1	2.000	Chhapri/ Huzur Shaskiya	31-03-2017 to 30-03-2022	Operational
70.	Shri Shyam Singh Patel S/o Gulab Singh Patel R/o Village Ratibad Near Manglik Bhawan Tehsil Huzur Bhopal	Murum/ Kopro	238/1	2.000	Chhapri/ Huzru Shaskiya	10-03-2017 to 09-03-2022	Operational
71.	Shri Anand Stone Crusher Pro. Prakash Madhwani R/o Idgah Hills Bhopal	Stone for Crusher	342/1/2, 346/1/2/1, 346/1/2/2, 348/2	4.000	Chanbad Kadim/ Berasia Niji	08-06-2017 to 07-06-2027	Operational
72.	Shri Sanjay Meena S/o Shri Bhagwan Singh Meena R/o M.No. 20, Village Basiya Post Jamuniya Tehsil Huzur District Bhopal	Stone for Crusher	238	3.500	Malikhedi/ Huzur Shaskiya	30-06-2017 to 29-06-2027	Non- Operational

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73.	Saim Ali S/o Shri Aahsil Ali R/o Flat No. T-5, City CentreComplex Thana Taleya Bhopal	Stone for Crusher	604	2.000	Parvaliya Sadak/ Huzur Shaskiya	13-06-2017 to 12-06-2027	Operational
74.	Rajeev Shukla S/o B.L. Shukla R/o A-107, Punjabi bag, Govindpura Bhopal	Stone for Crusher	9/1	4.900	Netapur/ Berasiya Shaskiya	03-10-2017 to 02-10-2027	Non-Operational
75.	Bharat Shukla S/o B.L. Shukla R/o A-107, Punjabi bag, Govindpura Bhopal	Stone for Crusher	9/1	8.000	Netapur/ Berasia	03-10-2017 to 02-10-2027	Non-Operational
76.	Gyan Devi Mishra R/o Bhopal	Stone for Crusher	374	3.750	Chnadbad/ Berasia	07-02-2017 to 06-02-2027	Operational
77.	Shri Bhupendra Singh S/o Shri Narendra Singh R/o 249/2A Saket nagar Bhopal	Stone for Crusher	03	2000	Jaitpura/ Berasia Shaskiya	27-10-2017 to 26-10-2027	Non-Operational
78.	Shri Bhupendra Singh S/o Shri Narendra Singh R/o 249/2A Saket nagar Bhopal	Stone for Crusher	321	2.900	Jaitpura/ Berasia	27-10-2017 to 26-10-2027	Non-Operational

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79.	Shri Arjundas Nebhnani S/o Kishanchandra Nebhnani R/o 39, Parlk-1, Panchwati Colony Airport Road Bhopal	Stone for Crusher	104/1	2.000	Dhamniya/ Huzur Shaskiya	12-10-2017 to 11-10-2027	Non- Operational
80.	Shri Avinash Nebhnani S/o Arjundas Nebhnani R/o 39, Parlk-1, Panchwati Colony Airport Road Bhopal	Stone for Crusher	170	2.000	Dhamniya/ Huzur Shaskiya	12-10-2017 to 11-10-2027	Non- Operational
81.	Shri Deepak Chaurey S/o Late Ithhal Chaurey R/o M. No. 23, Crystal Campus Avadhpuri Bhopal	Stone for Crusher	375, 384/1kh, 385/1	2.000	Pardi/ Berasia Niji	29-06-2017 to 28-06-2027	Operational
82.	Komal Singh S/o Shri Bheem Singh R/o 161 Sidhharth Late City Anand Nagar Bhopal	Stone for Crusher	361/1/2, 361/2, 362/2, 362/1	3.300	Chandbad Kadim/ Berasia Niji	01-07-2017 to 30-06-2027	Operational
83.	Shrimati Sangeeta Sharma W/o Shri Murari Sharma R/o 77, Savan Nagar Kalghati Bhopal	Stone for Crusher	40	2.000	Barkheda Bondar/ Huzur	03-10-2017 to 02-10-2022 (Renewed)	Operational


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84.	Shri Devendra Trigunayak S/o Late Shri S.K. Trigunayak R/o 108, Ramanand Nagar Lalghati Bhopal	Stone for Crusher	507	1.000	Parvaliya Sadak/ Huzur Shaskiya	28-10-2016 to 27-10-2026 (Renewed)	Operational
85.	Shri Babar Khan S/o Anwar Ali Khan R/o M.No. 220-A Hazrat Nizamuddin Colony Bhopal	Stone for Crusher	500	2.900	Parvaliya Sadak/ Huzur Shaskiya	09-11-20106 to 08-11-2026 (Renewed)	Operational
86.	Shri Jitendra Sen S/o Jayprakash Sen R/o M. No. 61, C-2 Saket Nagar Bhopal	Stone for Crusher	92/1	2.000	Kolukhedi Kala/ Berasia	27-10-2016 to 26-10-2026	Non- Operational
87.	Shri Jitendra Sen S/o Jayprakash Sen R/o M. No. 61, C-2 Saket Nagar Bhopal	Stone for Crusher	92/1	2.000	Kolukhedi Kala/ Berasia	27-10-2017 to 26-10-2027	Non- Operational
88.	Shrimati Meenu Yadav W/o Shri Govind Singh Yadav R/o C-55, Padmanabh Nagar Raisen Road Bhopal	Stone for Crusher	92/1	2.000	Kolukhedi Kala/ Berasia	27-10-2017 to 26-10-2027	Non- Operational

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89.	Shrimati Sangeeta Sharma W/o Shri MurariSharma R/o 77, Sawan Nagar Lalghati Bhopal	Stone for Crusher	37, 38	2.200	Barkheda Bondar/ Huzur Shaskiya	16-08-2015 to 15-08-2025 (Renewed)	Operational
90.	Shrimati Sangeeta Sharma W/o Shri MurariSharma R/o 77, Sawan Nagar Lalghati Bhopal	Stone for Crusher	37, 38	3.670	Barkheda Bondar/ Huzur Shaskiya	18-06-2013 to 17-06-2023 (Renewed)	Operational
91.	M/s J.M.K. Infrastructure Pvt. Ltd. Operator Manoj Khurana R/o F-5, TilakNagar Babdiya Kala Bhopal	Stone for Crusher	212	4.000	Malikheda/ Huzur Shaskiya	18-03-2018 to 17-03-2028 (Renewed)	Operational
92.	Shri Rajesh Chouksey S/o Late J.C. Chouksey R/o265, Ashok Vihar Colony Anand Nagar Bhopal	Murum/ Kopra	748/1	2.000	Pipliya Jahirpir/ Huzur Shaskiya	30-10-2017 to 29-10-2027	Operational

  
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93.	Shri Rajkumar Chouksey S/o Late Ganpat Singh R/o Village Pipliya Jahirpir Tehsil Huzur District Bhopal	Murum/ Kopra	748/1	2.000	Pipliya Jahirpir/ Huzur Shaskiya	30-10-2017 to 29-10-2027	Non-Operational
94.	Shrimati Suman Narwani W/o Ram Kumar Narwani R/o D-98/A, Janki Nagar Chuna Bhatti Kolar Road Bhopal	Stone for Crusher	355, 356	1.200	Sarvar/ Huzur Niji	20-11-2017 to 19-11-2027	Operational
95.	Shri Jahir Uddin Kureshi R/o M. No. 24, Near Hamidia Hospital Bhopal	Stone for Crusher	194/1, 195/1	2.100	Ratua Ratanpur/ Berasia	17-03-2016 to 16-03-2026 (Renewed)	Non-Operational
96.	Shri Paramjeet Singh Kalra S/o Shri Amarjeet Singh Kalra R/o 106, Shehshah Garden Punjabi Bhopal	Stone for Crusher	345	4.000	Chandbad Kadim/ Berasia (Shaskiya)	22-03-2018 to 21-03-2028 (Renewed)	Operational




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97.	Shri Surendra Singh Yadav S/o Shri Sohan Singh Yadav R/o C-55, PadnabhanNagar Raisen Road Bhopal	Stone for Crusher	331/2, 332/2, 333/2	1.900	Chandbad Kadim/ Berasia (Niji)	17-11-2017 to 16-11-2027	Operational
98.	Shri Pawan Bhadoriya S/o Shri N.K. Bhadoriya R/o E-6, Kotra Sultanabad Bhopal	Stone for Crusher	345	3.360	Chandbad Kadim/ Berasia Shaskiya	22-03-2018 to 21-03-2028 (Renewed)	Operational
99.	Shri Arpit Malviya S/o Shri Anil Kumar Malviya R/o M.No. 6 Bhawani Nagar Indrapuri Bhopal	Stone for Crusher	320/2, 321/2, 330/2, 331/1, 332/1, 333/1	1.900	Chandbad Kadim/ Berasia Shaskiya	23-11-2017 to 22-11-2027	Operational
100.	Shri Rajendra Garg S/o Bhawani Shankar Garg R/o H.X. 93, E-7, Areera Colony Bhopal	Stone for Crusher	285, 286, 287, 292/3	1.890	Chandbad Kadim/ Berasia Shaskiya	27-12-2017 to 26-12-2027	Non-Operational
101.	Aslam Salim Khan S/o Salim Uddin Khan R/o M. No. 3, Near Fiza Hospital, Patra Parighat Bhopal	Stone for Crusher	220/3, 221	1.921	Ratua Ratanpur/ Berasia Niji	06-02-2018 to 05-02-2028 (Renewed)	Operational

  
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102.	Shri Ram Chand Premchandani S/o Late Shri J. Premchandani R/o 7,Laxmi Compound Idgah Hills Bhopal	Stone for Crusher	501	2.023	Parvaliya Sadak/ Huzue Shashkiya	18-06-2017 to 17-06-2027 (Renewed)	Operational
103.	Shrimati Indrani Sahi W/o Shri Trilok Xhand Sahu R/o 12 Near Ram Mandir, Bhopal	Stone for Crusher	177/1/6/K	2.000	Khadampur/ Berasia Niji	20-02-2018 to 19-02-2028	Operational
104.	Ashwini Nagar S/o Shri Manmohan Nagar R/o 69, Village and Post Harikheda Tehsil Berasia Bhopal	Stone for Crusher	70/1, 71/1/2, 194/5/2, 204/2/2/1/1	4.000	Purachidwara/ Huzur Shashkiya	29-01-2018 to 28-01-2028	Non- Operational
105.	Shri Ashwin Sharma S/o Shri C.H. Sharma R/o A- 1, Chhatva Tal Platenium Plaza Mata Mandir, T.T. Nagar Bhopal	Stone for Crusher	244	4.000	Kardai/ Huzur Shashkiya	16-02-2018 to 15-02-2028	Non- Operational

  
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106.	Shri J.C. Sharma S/o Shridhar Ji Sharma R/o 34, C. Indrapuri B.C.L. Bhopal	Stone for Crusher	239/222	2.000	Shahpura/ Huzur Shaskiya	18-06-2017 to 17-06-2027 (Renewed)	Operational
107.	Shri Avinash Nebhnani S/o Arjundas Nebhnani R/o 39, Park-1, Panchwati Colony Airport Road Bhopal	Stone for Crusher	170	2.000	Dhamniya/ Huzur Shaskiya	02-04-2018 to 01-04-2028	Non-Operational
108.	Shrimati Rajdulari Parashar W/o Shri Sanjay Parashar R/o Village Kalkheda Tehsil Huzur Bhopal	Stone for Crusher	261, 262	4.000	Malikhedi/ Huzur Shaskiya	13-06-2018 to 12-06-2028 (Renewed)	Operational
109.	Shri Nitin Parihar S/o Shri Pratap Singh Parihar R/o I-22/1 North T.T. Nagar Shri Pitambari Stone Crusher Pro. Shri Himalaya Balwani R/o S.X.D.-12 J.K. Road, Jupiter Park Bhopal	Murum/ Kopro  Stone for Crusher	833/3/4  364	2.000  3.750	Tumda/ Huzur Shaskiya  Chandbad Kadim/ Berasia	11-05-2018 to 10-05-2028  27-08-2018 to 26-08-2028 (Renewed)	Operational  Operational
110.	Shri Pappu Khan S/o Basarat Khan R/o Village	Stone for Crusher	70/1, 71/1/2, 83/2, 194/5/2,	2.000	Purachidwara/ Huzur Shaskiya	15-01-2018 to 14-01-2028	Non-Operational

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112.	Shrimati Chandra Pritmani W/o Shri Dilip Kumar Pritmani R/o B-94, Vijay Nagar Lalghati Bhopal	6/1D	1.000	Rasuliya Pathar/ Huzur Shaskiya	08-02-2018 to 07-02-2028 (Renewed)	Operational
113.	Shri Anil Kumar Govil S/o Jagdish Prasad Govil R/o 183, New Subhash Nagar Bhopal	239/222	3.500	Shahpur/ Huzur Shaskiya	30-06-2017 to 29-06-2027 (Renewed)	Non- Operational
114.	Shri Jagdish Chandra Sharma S/o Late Shri Shridhar Sharma R/o 105, Shankar Garden Ayodhya Nagar Bypass Bhopal	239/222	2.500	Shahpur/ Huzur Shaskiya	20-06-2018 to 19-06-2028 (Renewed)	Operational
115.	Shri Haribabu Shivhare S/o Shri Gyasiram Shivhare R/o 17-18 Tansen Road Near Saket Nagar Gwalior MP	138/1	2.000	Runaha/Berasia Shaskiya	24-08-2018 to 23-0-82028	Non- Operational



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116.	Shri Bharat Shukla S/o Shri B.S. Shukla R/o 107, Punjabi Bag Govindpura Bhopal	Stone for Crusher	239/222	3.000	Shahpura /Huzur/ Shaskiya	01-05-2018 to 30-04-2028 (Renewed)	Operational
117.	Shri Rajeev Shukla S/o Shri B.S. Shukla R/o 107, Punjabi Bag Govindpura Bhopal	Stone for Crusher	239/222	3.000	Shahpura/ Huzur/ Shaskiya	01-05-2018 to 30-04-2028 (Renewed)	Operational
118.	Shri Manoj Bansal transferred to M/s Shayog Metals partner Shrimati Soniya Sood R/o E 2- 42, Arera Colony Bhopal	Stone for Crusher	448	4.000	Barkheda Nathu/ Huzur/Shaskiya	06-08-2019 to 05-08-2029 (Renewed)	Operational
119.	Shrimati Soniya Sood W/o Ish Kuamr Sood R/o E 2-42, Arera Colony Bhopal	Stone for Crusher	564/2/1	2.000	Barkheda Nathu/ Huzur/Shaskiya	28-07-2009 to 27-07-2019	Operational



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120.	Shrimati Kiran Sharma W/o Shri Sudhir Sharma R/o 301/B-2, Pasar City E- 3, Arera Colony Bhopal	Stone for Crusher	211, 212	4.000	Malikheda/ Huzur/ Shaskiay	26-02-2019 to 25-02-2029 (Renewed)	Operational
121.	Shrimati Radha Patil W/o Shri Sunil R/o M.No. 67, Gomti Colony Nehru Nagar Bhopal	Stone for Crusher	248	2.300	Malikhedi/ Huzur/ Shaskiya	08-04-2018 to 07-04-2028 (Renewed)	Non- Operational
122.	Rajshri Pandey S/o Late Shri A. Pandey R/o Adhar Tal Anand Nagar, Jabalpur	Stone for Crusher	9/1	2.000	Netapur/ Berasia/ Shaskiay	06-10-2018 to 05-10-2028	Non- Operational
123.	Shrimati Rekha Ajmera W/o Shri Anil Ajmera R/o 501, 5 <sup>th</sup> Floor, Akhileshwar Tower Nayapura Lalghati Bhopal	Stone for Crusher	833/1/2/G	2.000	Tumda/ Huzur/ Shaskiya	03-10-2018 to 02-10-2028	Non- Operational
124.	Shrimati Divya Pandit W/o Shri Abhay Pandit R/o M.No. 29, Ramanand Colony Gufa Mandir Bhopal	Stone for Crusher	833/1/2/1/kh	4.000	Tumda/ Huzur/ Shaskiya	05-10-2018 to 04-10-2028	Non- Operational

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125.	Suresh Lahoti S/o LateShri Nathmal Ji Lahoti R/o E-7/1/6 Lala Lajpatrai Society Arera Colony Bhopal	Stone for Crusher	136	1.320	Chhapri/ Huzur/ Niji	03-10-2018 to 02-10-2028 (Renewed)	Operational
126.	Manu Dixit S/o Shri Pradeep Dixit R/o Shubhalaya E-8, TrilangaBhopal Infra	Stone for Crusher	237, 238, 239	4.000	Malikhedhi/ Huzur/ Shaskiya	29-01-2019 to 28-01-2029 (Renewed)	Operational
127.	Shri Ram Chandra Premchandani S/o LateShri J. Premchandani R/o M.No. 07, Laxmi Compound Idgah Hills Bhopal	Stone for Crusher	508	2.000	Parvaliya Sadak/ Huzur/ Shaskiya	30-01-2019 to 29-01-2029	Non- Operational
128.	M/s Shri Balaji Stone Crusher Part. Shri Ramesh Yadav R/o Shop No. 07, Sahkari Parisar Kalpana Nagar Bhopal	Stone for Crusher	130	3.000	Rojive/ Huzur/ Shaskiya	01-04-2018 to 31-03-2028 (Renewed)	Operational

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129.	Shrimati Saroj Gupta W/o Shri Mahesh Gupta R/o M.No. 2, Gali No. 03, Chandbad Kadim District Bhopal	Stone for Crusher	117	4.000	Sukhisevaniya/ Huzur Shaskiya	20-03-2018 to 19-03-2028 (Renewed)	Operational
130.	Shri Hari Singh Vishwakarma S/o Shri Bandan Singh R/o Berasia District Bhopal	Stone for Crusher	75/1	2.000	Kotra/ Berasia Shaskiya	01-01-2019 to 31-12-2029	Operational
131.	Shri Rishabh Pachori S/o Shri Gaurishankar Pachori R/o Karod Chauraha District Bhopal	Murum	412	4.000	Khajuri/ Huzur Shaskiya	14-02-2019 to 13-02-2029	Operational
132.	Shri Shakeel Miya S/o Shri Basharat Kha R/o District Bhopal	Murum	174/9/5/1	2.000	Bagoniya/ Huzur/ Niji	20-02-2019 to 19-02-2029	Operational



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133.	Shri Siddharth Stone Crusher Pro. Shri Sidharth Agrawal S/o Shri Narendra Agrawal R/o Indrapuri Bhel Bhopal	Stone for Crusher	239/222	2.000	Shahpura/ Huzur/ Shaskiya	15-12-2018 to 14-12-2028 (Renewed)	Operational
134.	Shri Bhikam Singh Meena S/o Nirbhay Singh Meena R/o M.No. 214 Village Nalkheda Tehsil Berasia District Bhopal	Stone for Crusher	138/1	3.450	Runaha/ Berasia/ Shaskiya	11-02-2019 to 10-02-2029	Non-Operational
135.	Shri Mo. Shoeb S/o Shri Nijam Mohammad R/o 1158 Near Kamla Park Post Office Bhopal	Stone for Crusher	364	1.619	Chandbad Kadim/ Berasia/ Shaskiya	28-07-2019 to 27-07-2029 (Renewed)	Operational
136.	Shri Mohammad Shahid S/o Shri Nijam Mohammad R/o 1158 Near Kamla Park Post Office Bhopal	Stone for Crusher	364	1.619	Chandbad Kadim/ Berasia/ Shaskiya	01-08-2019 to 31-07-2029 (Renewed)	Operational

  
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137.	Kartar Stone Crushing Partner Gurdeep Singh S/o Late Kartar Singh R/o E-2/90, Arera Colony Bhopal	Stone for Crusher	87/2/1 New Khasra 187	1.210	Chhapri/Ratibad/Huzur/Niji	18-06-2019 to 17-06-2029 (Renewed)	Operational
138.	Shri Ajit Kumar Mishra S/o Shri Mahendra Mishra R/o F-302 Savay Complex Gulmohar Colony Bhopal	Murum	757/3	1.000	Kalkhedi Jhirniya/Huzur/Shaskiya	25-06-2019 to 24-06-2029	Non-Operational
139.	Shri Ajit Kumar Mishra S/o Shri Mahendra Mishra R/o F-302 Savay Complex Gulmohar Colony Bhopal	Murum	36	1.000	Kalkhedi Jhirniya/Huzur/Shaskiya	25-06-2019 to 24-06-2029	Non-Operational
140.	Shri Vinit Kumar Chaturvedi S/o Shri Ramkrishna Chaturvedi R/o Mukhtyarganj Pushpanjali Colony Raghraj Nagar Satna MP	Murum	758/1	2.000	Kalakhedi/Huzur/Shaskiyay	25-06-2019 to 24-06-2029	Non-Operational

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141.	Shri Vimal Chouksey S/o Shri Balmukund Chouksey R/o 37/10, Bhavani Chowk, Anand Nagar Bhopal	Stone for Crusher	501	2.000	Parwaliya Sadak/ Huzur/ Shaskiya	04-04-2018 to 03-04-2028	Non- Operational
142.	Shrimati Ingita Bindal W/o Shri Manish Bindal R/o Flat No.8 Rachna Residency E- 7/18, B Lala Lajpat Rai Society Arera Hills Colony Bhopal	Stone for Crusher	51, 52, 54	1.740	Ratata/ Huzur/ Shaskiyai	26-10-2019 to 25-10-2029 (Renewed)	Operational
143.	Shri Yawar Mohammad Kha S/o Shri Anwar Mohammad Kha R/o H.C. 49, NRI Colony Koh-e-Fiza Bhopal	Stone for Crusher	856, 857, 858, 859/2, 860	4.000	Hinofi Sadak/ Berasia/ Niji	18-09-2019 to 17-09-2029 (Renewal)	Operational
144.	Shri Sandeep Sood S/o Shri Satyapal Sood R/o M. No. 37, Rohti Nagar, Phase-1 Bawadiakala Bhopal	Murum	261, 262	4.000	Malikhed/ Huzur/ Shaskiya	22-09-2020 to 21-09-2030	Operational

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145.	Shri Abhishek Singh S/o Shri Awadh Singh R/o M.No. 17 Ward No. 23, Shital Homes Mandideep District Raisen	Murum	31, 32	2.000	Pipaliya Kesho/ Huzur/ Shaskiya	23-06-2020 to 22-06-2030	Operational
146.	Shrimati Sangeeta Sarraf W/o Shri Manoj Sarraf R/o E-2/161, Arera Colony Bhopal	Stone for Crusher	199/1, 199/2 and 200	2.000	Chhapri/ Huzur/ Niji	29-12-2020 to 28-12-2030 (Renewed)	Operational
147.	Shri Nepal Singh Solanki S/o Shri Bhagwan Singh R/o 45, Najirabad Tehsil Berasia District Bhopal	Stone for Crusher	212/1	4.000	Khajurikala/ Berasia/ Shaskiy	01-02-2019 to 31-01-2029	Non- Operational
148.	Shrimati Namrata Trithani W/o Shri Rajesh Tirthani R/o 33 Brite Colony Idgah Hills Bhopal	Murum	412	3.000	Khajuri/ Huzur/ Shaskiya	01-06-2020 to 31-05-2030	Non- Operational
149.	M/s Dilip Buildcon by Kundandas Kumar R/o Plot No. 05, Inside Govind Narayan Singh Gate, Chuna Bhatti Kolar Road Bhopal	Stone for Crusher	176/3/1/1, 176/3/2, 176/2/d, 176/1/d	4.640	Khadampur/ Berasia/ Niji	09-03-2020 to 08-03-2030	Non- Operational

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150.	M/s Dilip Buildcon by Kundandas Kumar R/o Plot No. 05, Inside Govind Narayan Singh Gate, Chuna Bhatti Kolar Road Bhopal	Stone for Crusher	163/1/2, 163-164/2/2, 176/1/Kh	4.450	Khadampur/ Berasia/ Niji	09-03-2020 to 08-03-2030	Operational
151.	Shri Atul Kumar Nile S/o Late Shri Vinay Kumar Nile R/o LIG-30, Housing Board Colony District Hoshangabad	Murum	262	4.000	Malikhedi/ Huzur/ Shaskiya	07-07-2020 to 06-07-2030	Operational
152.	M/s Kiara Infra Part Shri Anees Khan R/o Behind Ayurvedic Surgical Kolar Road Bhopal	Murum	03	1.000	Barkheda Bondar/ Huzur/ Shaskiya	11-06-2020 to 10-06-2030	Non-Operational
153.	M/s Pankaj Mineral Part Shri Pankaj Kothari R/o M.No. 517, E-7, Arera Colony Bhopal	Murum	02	1.000	Barkheda Bondar/ Huzur/ Shaskiya	11-06-2020 to 10-06-2030	Non-Operational
154.	Shri Abhishek Meena S/o Arjun Singh Meena R/o M.No. 29, Gram Chandrakhedhi Tehsil Huzur District Bhopal	Murum	138	2.000	Morga/ Huzur/ Shaskiya	05-06-2020 to 04-06-2030	Operational

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155.	M/s Adiwasi Kalyan Samiti Authorised personnel Rajesh Sharma S/o Shri Kailash Narayan Sharma R/o M.No. 185 Panchwati Colony Karond Choraha Bhopal	Murum	93/1/2/1	2.000	Manikhedhi Kot/ Huzur/ Shaskiya	22-07-2020 to 21-07-2030	Non-Operational
156.	Shri Anis Ahmad S/o Shri Abdul Salam R/o HIG T-4, Millenium Tower Kohe Fiza Bhopal	Stone for Crusher	384/1/1/kh/2/1	1.315	Ratua Ratanpur/ Berasia/ Niji	18-06-2019 to 17-06-2029 (Renewed)	Operational
157.	Shri Mohammad Tahir S/o Shri Mohammad Esmail R/o 7-99/2, Opposite G-8 Hazrat Nizamuddin West New Delhi	Murum	93/1/2/1	2.000	Manikhedhi Kot/ Huzur/ Shaskiya	09-11-2020 to 08-11-2030	Operational
158.	Shrimati Preeti Agrawal W/o Shri Anil Kumar Agrawal R/o 130, Vaishali Nagar Kotra Sultanabad Bhopal	Stone for Crusher	723	1.930	Sikandarabad/ Huzur/ Shaskiya	04-12-2020 to 03-12-2030	Operational



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159.	M/s Shri Balaji Infra Buildcon Part Shri Akshay Bansal R/o M.No. 01, Panchwati Colony Airport Road Bhopal	Stone for Crusher	2	4.500	Barkheda Bondar/ Huzur/ Shaskiya	05-08-2019 to 04-08-2029	Non-Operational
160.	Sumit Pachori S/o Shri Hukumchand Pachori R/o 102, Pipal Chouraha Karod, Berasia Road Bhopal	Stone for Crusher	49/1	4.000	Ratua Ratanpur/ Berasia/ Shaskiya	06-07-2019 to 05-07-2029	Non-Operational
161.	Shri Parmanand Patidar S/o Shri Kaishal Narayan Patidar R/o 121, Akriti Eco City Bavdiyakala Bhopal	Stone for Crusher	564/1	4.000	Barkheda Nathu/ Huzur/ Shaskiya	01-08-2019 to 31-07-2029	Non-Operational
162.	Shri Raghavendra Singh Yadav S/o Shri Lakhhan Singh Yadav R/o M.No. 122/260, Near Shiv Nagar Mandir Bhanpur Semra Saiyyad Bhopal	Murum	239/222	2.000	Shahpur/ Huzur/ Shaskiya	16-12-2020 to 15-12-2030	Operational

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163.	Shri Avadh Narayan S/o Late Balmukund R/o M.No. 136, N-2 D-Sector Govindpura Bhopal	Stone for Crusher	498 499 and 502 (NewKhasra No./71, 72, 86)	4.000	Parvaliya Sadak/ Huzur/ Shaskiya	10-01-2019 to 09-01-2029	Operational
164.	Laxmi Narayan R/o District Bhopal	Murum	15/8/1	1.600	Islam Nagar/ Huzur/ Niji	28-05-2019 to 27-05-2029	Operational
165.	Vishal Shivhare S/o ShriAshok Shivhare R/o District Bhopal	Stone for Crusher	23/2/1, 23 /2/2	4.000	Dillod / Berasia/ Niji	01-10-2020 to 30-09-2030	Operational
166.	Shri Ram Kumar Narwani S/o Shri K. L.Narwani R/o D-98/A, Janki Nagar Chuna Bhatti Kolar Road Bhopal	Stone for Crusher	408	2.750	Sarvar/ Huzur Shaskiya	22-02-2016 to 21-02-2026 (Renewed)	Operational
167.	Shri Maksood Khan S/oShri Noor Khan R/o District Bhopal	Murum/ Kopra	463, 464, 468	1.880	Kalyanpur/ Huzur	30-10-2019 to 29-10-2029	Operational
168.	Shri Sohan Singh YadavS/o Shri Bhagwan Singh Yadav R/o Sahi-55, Padmanabh Nagar, Govindpur Bhopal	Stone for Crusher	297	2.000	Chandbad Kadim/ Barasiya Shaskiya	10-12-2020 to 09-12-2030 (Renewed)	Operational

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169.	M/s Narmada Minerals Director Pawan Jaiswal Transfer to Mr. Komal Singh Thakur House No.- A-161, Siddharth Lake city, Anand Nagar Bhopal (M.P.)	Stone for Crusher	364	4.000	Chandbad Kadim/ Berasia Shaskiya	21-06-2015 to 20-06-2025	Operational
170.	Shri Ashish Sharma S/o Shri B.D. Sharma R/o Shakti Nagar Habibganj Bhopal	Stone for Crusher	117	2.000	Bandikhedhi/ Berasia/ Shaskiya	27-02-2016 to 26-02-2026	Non- Operational
171.	Shri Nikhil Sharma S/o Shri Mukesh Sharma R/o M.No. G-2, AIG- GPA Bhadbhada Chouraha TT Nagar District Bhopal	Stone for Crusher	307/1	2.776	Ratua Ratanpur/ Berasia/ Shaskiya	05-07-2021 to 04-07-2031	Non- Operational

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## 4 Details of Revenue received in last three years for Sand Mine lease (2019-20, 2020-21 and 2021-22):

Table 5 Revenue received in last three years for Sand Mine

Year	Revenue (In Rs.)
2019-20	NA
2020-21	3838142.86
2021-22	4300000

## 5 Details of Sand Production in last 3 years

Table 6 Sand Production in last 3 years

Year	Manpura Mine Production (In Cu. Mt)	Ghoghalpur Mine Production (In Cu.Mt)
2019-20	00	00
2020-21	2000	2000
2021-22	2000	2000

## 6 Formation of sand

Majority of rivers originate from mountains and as they continue their journey with force, through these mountains, the bigger rocks and boulders disintegrate slowly, and over a period of time, starts rolling down as fragments. These fragments become smaller and smaller due to weathering process by water, wind and other rocks. Thus, developed sand particles are transported, washed and stored and again transported during floods and deposited at river beds and largely on river shores. In case the sand deposits are mined / removed, cavities are formed in their place and again filled during next cycle(s) of deposition.

River sand is preferred as a source of sand because of the following factors:

- Cities tend to be located near rivers so transport costs are low, the energy in a river grinds rocks into gravels and sands,
- Eliminating the costly step of mining, grinding, and sorting of rocks
- The material produced by rivers tends to consist of resilient minerals of angular shape that are preferred for construction.

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- Also, offer the advantages of being naturally sorted by grain-size, easily accessible, and able to be transported inexpensively using barges. Despite plentiful supplies of desert sand (Aeolian) which produce materials unsuitable for making concrete.

A meandering stream has a single channel that wind snakelike through its valley. As water flows around these curves, the outer edge of water is moving faster than the inner edge. This creates an erosion surface on the outer edge (a cut bank) and a depositional surface on the inner edge (a point bar). Where the bends of two meanders meet, they bypass the curve of river, creating an oxbow lake which may then be in-filled with over wash sediment.

Meanders change position by eroding sideways and slightly downstream. The sideways movement occurs because the maximum velocity of the stream shifts toward the outside of the bend, causing erosion of the outer bank. At the same time the reduced current at the inside of the meander results in the deposition of coarse sediment, especially sand. Thus by eroding its outer bank and depositing material along its inner bank, a stream moves sideways without changing its channel size. Due to the slope of the channel, erosion is more effective on the downstream side of a meander.

The specific gravity of an aggregate is considered as the measure of strength or quality of the material. Specific gravity is defined as the ratio of weight of a given volume of aggregate to the weight of equal volume of water. Aggregates having low specific gravity are generally weaker than those with aggregates having high specific gravity. This property helps in a general identification of aggregates. The specific gravity of (sand) is considered to be around

2.65 to 2.67. Sand particles composed of quartz have a specific gravity between 2.65 to 2.67. While inorganic clays generally range from 2.70 to 2.80. Soils with large amounts of organic matter or porous particles have specific gravity below 2.60 (Some range as low as 2.00).

## Sources of sand

Sand is world's second most consumed natural resource after water. Rapid urbanization and global population growth have created unbound demand for this limited natural resource. With urbanization as key driving factor, construction industry has expanded considerably over the last few decades leading to overuse of river sand for construction purposes. This increasing discrepancy between the need for aggregates in the

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society and scarcity of natural sand due to exhaustion of resources and environmental considerations, has urged concrete manufacturers to look for a suitable and sustainable alternative fine aggregate. The economic and ecological alternative is manufactured sand.

## Natural Sources

Natural sand is produced by natural forces, such as river sand and sea sand. Generally, sand found at foot of mountains is more weathered, containing more mud, organic impurities and light substances. Sea sand often contains shells and other impurities, and its components such as the chlorine, sulfate and magnesium salts may cause corrosion of steel bars. All the components will affect the performance of concrete. Sources of sand can be river bed material, de-siltation pits in reservoirs/dams, agricultural land etc. these can be broadly classified as:

Following are the natural types of the sand:

- Pit Sand

This sand is found as deposits in soil and it is obtained by forming pits into soils. It is excavated from a depth of about 1 m to 2 m from ground level. The pit sand consists of sharp angular grains which are free from salts and it proves to be excellent material for mortar or concrete work. For making mortar, the clean pit sand free from organic matter and clay should only be used.

- River Sand

This sand is obtained from banks or beds of rivers. The river sand consists of fine rounded grains probably due to mutual attrition under the action of water current. The colour of river sand is almost white. As river sand is usually available in clean condition, it is widely used for all purposes.

- Sea Sand

This sand is obtained from sea shores. The sea sand, like river sand, consists of fine rounded grains. The colour of sea sand is light brown. The sea sand contains salts. These salts attract moisture from the atmosphere. Such absorption causes dampness, efflorescence and disintegration of work. The sea sand also retards the setting action of cement. Due to all such reasons, it is the general rule to avoid the use of sea sand for engineering purposes except for filling of basement, etc. It can however be used as a local material after being thoroughly washed to remove the salt.

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## Manufactured Sand

Manufactured sand (M-Sand) is artificial sand produced from crushing hard stones into small sand sized angular shaped particles (rock particles with a particle size of less than 4.75 mm and is made by artificial crushing and sieving after soil removal treatment), washed and finely graded to be used as construction aggregate. It is a superior alternative to River Sand for construction purpose. The main technical indicators of artificial sand are particle gradation, fineness modulus, stone powder content, void ratio, apparent density, bulk density, methylene blue value (MB), crushing value index, mica content, light-matter content, etc.



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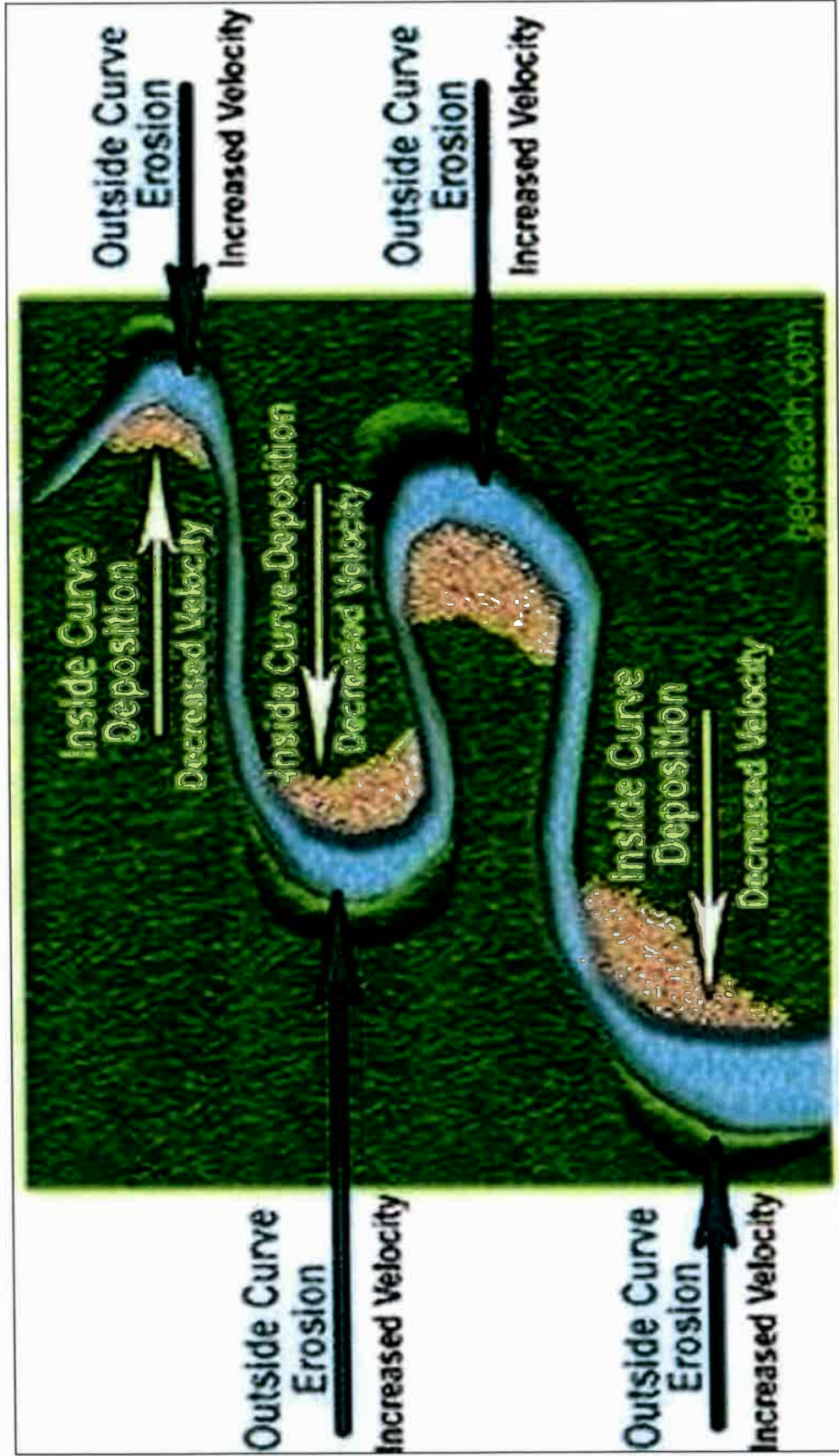


Figure 4 Conduive Areas for sand deposition

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## Sand Mining

Sand Mining is an activity referring to the process of the removal of sand from rivers, streams and lakes.

- Sand is mined from beaches and dredged from river beds.
- There are no official figures for the amount of sand mined illegally, but in 2015- 16, there were over 19,000 cases of illegal mining of minor minerals, which include sand, in the country.
- To stop illegal mining, the Ministry of Environment, Forest and Climate Change (MoEF) issued Enforcement and Monitoring Guidelines for Sand mining.
- These guidelines focus on the effective monitoring of the sand

mining. Following considerations shall be kept in mind for sand mining:

- Parts of the river reach that experience deposition or aggradations shall be identified. The Leaseholder/ Environmental Clearance holder may be allowed to extract the sand and gravel deposit in these locations to manage aggradations problem.
- Sand and gravel may be extracted across the entire active channel during the dry season.
- Abandoned stream channels on the terrace and inactive floodplains are to be preferred rather than active channels and their deltas and flood plains. The stream should not be diverted to form the inactive channel.
- Layers of sand which could be removed from the river bed shall depend on the width of the river and replenishment rate of the river.
- Sand shall not be allowed to be extracted where erosion may occur, such as at the concave bank.
- Segments of the braided river system should be used preferably falling within the lateral migration area of the river regime that enhances the feasibility of sediment replenishment.
- Sand and gravel shall not be extracted up to a distance of 1 kilometer (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on upstream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters



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on the downstream side.

- Sand and gravel could be extracted from the downstream of the sand bar at river bends. Retaining the upstream one to two-thirds of the bar and riparian vegetation is accepted as a method to promote channel stability.
- The flood discharge capacity of the river could be maintained in areas where there is a significant flood hazard to existing structures or infrastructure. Sand and gravel mining may be allowed to maintain the natural flow capacity based on surveyed cross-section history. Alternatively, off-channel or floodplain extraction is recommended to allow rivers to replenish the quantity taken out during mining.
- The Piedmont Zone (Bhabhar area) particularly in the Himalayan foothills, where riverbed material is mined, and this sandy-gravelly track constitute excellent conduits and hold the greater potential for groundwater recharge. Mining in such

  
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Areas should be preferred in locations selected away from the channel bank stretches.

- Mining depth should be restricted to 3 meters and distance from the bank should be  $\frac{1}{4}$ <sup>th</sup> or river width and should not be less than 7.5 meters.
- Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
- A buffer distance/un-mined block of 50 meters after every block of 1000 meters over which mining is undertaken or at such distance as may be directed/prescribed by the regulatory authority shall be maintained.
- River bed sand mining shall be restricted within the central  $\frac{3}{4}$ <sup>th</sup> width of the river/rivulet or 7.5 meters (inward) from river banks but up to 10% of the width of the river, as the case may be and decided by regulatory authority while granting environmental clearance in consultation with irrigation department. Regulating authority while regulating the zone of river bed mining shall ensure that the objective to minimize the effects of riverbank erosion and consequential channel migration are achieved to the extent possible. In general, the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report.
- The mining from the area outside river bed shall be permitted subject to the condition that a safety margin of two meters (2 m) shall be maintained above the groundwater table while undertaking mining and no mining operation shall be permissible below this level unless specific permission is obtained from the Competent Authority. Further, the mining should not exceed nine-meter (9 m) at any point in time.
- The permanent boundary pillars need to be erected after identification of an area of aggradations and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meters.

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## 7 General Profile of the District

<b>1. Geographical Position</b>	The district lies between North latitude 23°05' and 23°54' and east longitude 77°10' and 77°40', falling in Survey of India Topo sheet No. 55 E.
<b>2. Area and Population</b>	<p><b>I. Geographical Area (Sq. Km)</b>                  Total Area (Sq. Km): 2,772 Km<sup>2</sup></p> <p><b>II. CENSUS 2011</b></p> <p><b>I. Population</b></p> <p>a. Total Population: 23,71,061                  b. Male Population: 12,36,130                  c. Female Population: 11,34,931</p> <p><b>II. Literates</b></p> <p>a. Total Literates: 16,60,690                  b. Male: 9,20,314                  c. Female: 79,20,314</p> <p><b>III. Main Workers (Census 2011)</b></p> <p>a. Total Workers: 7,06,036                  b. Male Workers: 5,59,122                  c. Female Workers: 1,46,914                  d. Cultivators: 73,346                  e. Agricultural Labourers: 1,05,195                  f. Other Workers: 6,64,184</p> <p><b>V. Languages Spoken in the District</b>                  Apart from Hindi, Urdu, Gujrati, Marathi and Sindhi are widely spoken in Bhopal</p>
<b>3. Temperature</b>	Mean- Maximum temperature: 25.3°C Mean- Minimum temperature: 10.2°C
<b>4. Rainfall (In mm)</b>	Normal – South West Monsoon: 1159.2mm Annual Rainfall: 1260.2 mm
<b>5. Agriculture</b>	<p>a. Total Cultivable Area (Km<sup>2</sup>): 2032.03                  b. Net Area Sown (Km<sup>2</sup>): 2320</p>
<b>6. Rivers, etc.</b>	The main rivers are Parwati, its tributaries and Betwa River and its tributaries

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<b>7. Revenue Administrative Divisions</b>	<b>Revenue Divisions:</b> a. Revenue Blocks: 2 b. Revenue Tehsils: 2
<b>8. Local Bodies</b>	a. Municipalities: 1 b. Village Panchayats: 202




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## 7.1 Census Data 2011

Table 7 Census Data for year 2011

Description	2011
Actual Population	2,371,061
Male	1,236,130
Female	1,134,931
Population Growth	28.62%
Area Sq. km.	2,772
Density/KM <sup>2</sup>	855
Proportion to population of Madhya Pradesh	3.26%
Sex Ratio (Per 1000)	918
Child Sex Ratio (0-6 Age)	920
Average Literacy	80.37
Male Literacy	85.42
Female Literacy	74.87
Total Child Population (0-6 Age)	304,713
Male Population (0-6 Age)	158,721
Female Population (0-6 Age)	145,992
Literates	1,660,690
Male Literates	920,314
Female Literates	740,376
Child Proportion (0-6 Age)	12.85%
Boys Proportion (0-6 Age)	12.84%
Girls Proportion (0-6 Age)	12.86%

  
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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 8 Land Use Pattern of the Study Area

Sr. No.	Class	Area in Ha.	Percentage of coverage
1	Agricultural Plantation	3.313111	0.00 %
2	Aquaculture	13.966815	0.01 %
3	Cropland	177829.8891	64.28 %
4	Deciduous (Dry/Moist/Thorn)	27200.14565	9.83 %
5	Fallow land	221.127835	0.08 %
6	Gullied/Ravinous land	0.186823	0.00 %
7	Industrial	1320.437778	0.48 %
8	Lake/Ponds	1023.210962	0.37 %
9	Mining / Quarry	1081.527444	0.39 %
10	Reservoir/Tank	10633.19774	3.84 %
11	River	790.52884	0.29 %
12	Rural	6009.865928	2.17 %
13	Scrub Forest	6522.465866	2.36 %
14	Scrub land	20506.89012	7.41 %
15	Tree Clad Area	3079.879962	1.11 %
16	Urban	20408.78818	7.38 %
	Total	276645.4222	100 %

  
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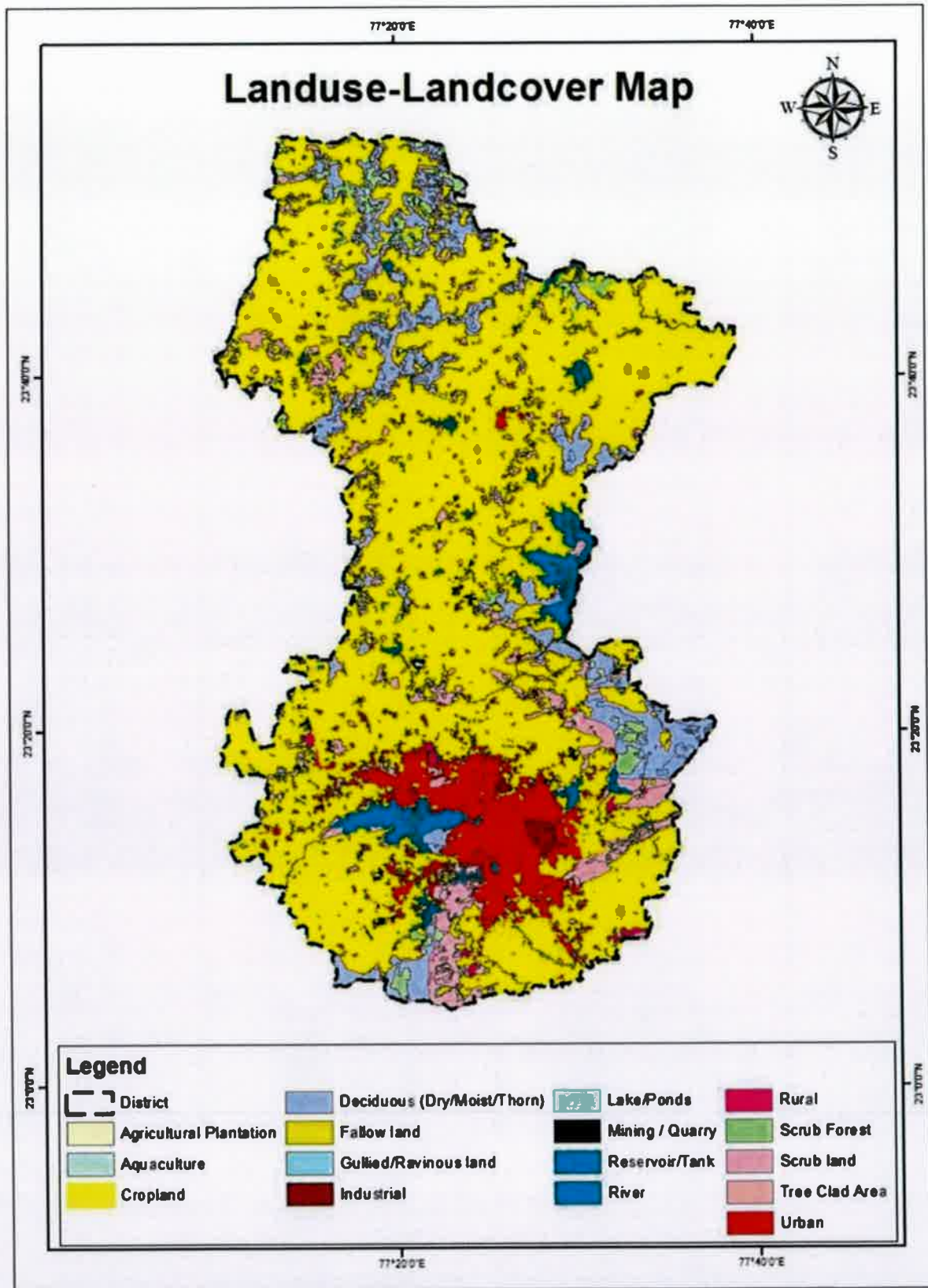


Figure 5 Land Use and Land Cover Map of the District

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## LULC Breakup (%)

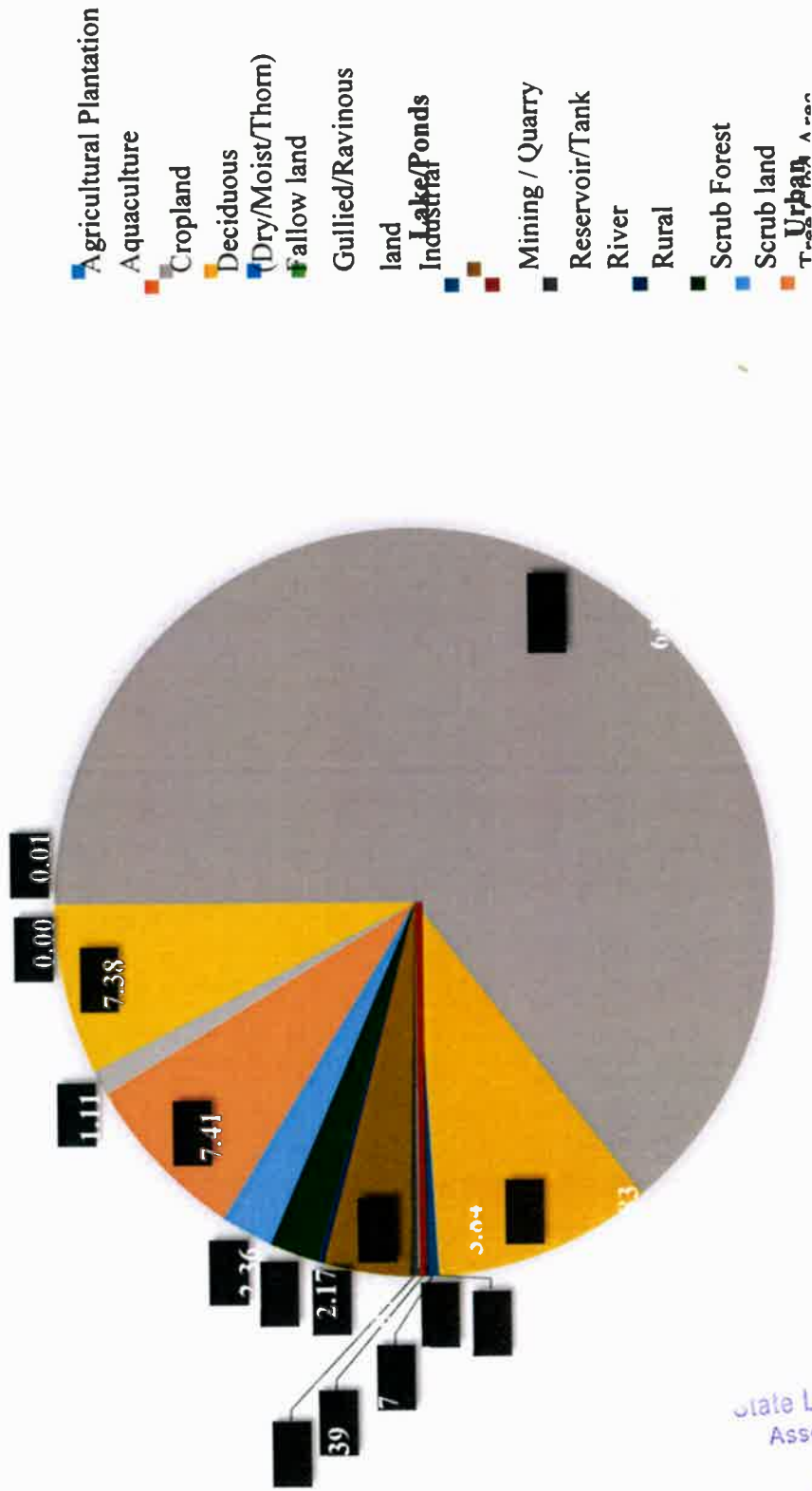


Figure 6 Land Use and Land Cover Breakup of the District

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## 9 Physiography of the District

Bhopal district forms the part of Malwa plateau with generally an undulating topography. The Vindhyan hill range occupies the eastern part of Phanda block, including a major part of Bhopal city. In ancient days the range was known as Vindhyyandri, forming the southern boundary of the Madhy Desha or middle region. The highest elevation of 622 m amsl in the district is recorded at Singar Choli, a hillock of Vindhyan range near Bhopal airport. The lowest elevation in the district is recorded about 421 m amsl near village Padariya Jat in Phanda block.

## 10 Rainfall of the District and Climate Conditions

### Rainfall

On the basis of Bairagarh and Berasia rain gauge stations data, the average annual rainfall of Bhopal district is about 1126.7 mm, while based on IMD station at Bairagarh; the annual normal rainfall of Bhopal is 1260.2 mm. Bhopal receives maximum rainfall during southwest monsoon period. About 92 % of the total rainfall takes place only during the monsoon period. The maximum rainfall (about 39 %) takes place during the month of July. In winter occasional rainfall of about 6 % takes place. During summer only about 2 % of the annual rainfall takes place. Thus, from October to middle of June only about 8 % of the annual rainfall takes place.

### Climatic Conditions

The climate of Bhopal district is characterized by a hot summer and well-distributed rainfall during the southwest monsoon season. The year can be divided in to four seasons. The winter commences from middle of November and lasts till the end of February. The period from March to about first week of June is the summer season. May is the hottest month of the year. The southwest monsoon starts from middle of June and lasts till end of September. October and middle of November constitute the post monsoon or retreating monsoon season. The climate of the Bhopal district is classified by the Thornthwaite precipitation effectiveness method. It is based on the assumption that total monthly rainfall and temperature determine the climate. The annual precipitation effectiveness of the district is 63.7, which indicate that the climate in the district is humid and forest type vegetation. The temperature starts rising from the beginning of February and reaching maximum in the month of May. The normal daily

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mean monthly maximum temperature is 40.7°C and daily mean minimum temperature is 25.3°C. The individual day maximum temperature in May goes up to 44°C. The individual day minimum temperature is recorded 10.2°C in the month of January. The summer season is the driest period of the year. The humidity comes down lowest in April. It varies between 26% and 88% at different times in different seasons. The wind velocity is high during the monsoon period as compared to pre and post monsoon. The wind velocity is highest in June around 18.9 km/hr and lowest is 7.0 km/hr in November.

## 11 Geology of the District

The rocks of the Vindhyan Super Group are exposed in the southern and southeastern part of district, including the area in and around Bhopal city. These rocks form NW-SE trending ridges and small isolated hillocks (inliers). The Upper Bhandar sandstone is reddish brown to purple in color, massive, medium to coarse grained, exhibiting well-defined bedding with plenty of current bedding and occasional ripple marks. The strike of the formation varies from NNW-SSW to N-S with dips varying from nearly horizontal to 50° in eastern direction. The sandstone is highly jointed with four sets of prominent vertical joints in NW-SE, WNW-ESE, NE-SW and NNE-SSW directions and nearly horizontal bedding joint. The Deccan trap basalts occur in the district as lava flow infillings in the valleys of pre-existing Vindhyan topography. The Vindhyan sandstone shows 'baking effect' due to the hot lava coming in contact with sandstones as seen near Bhadbhada. The lava flows are mostly 'Pahoehoe' character and less of 'Aa' character. The individual lava flow ranges from 10 to 30 m in thickness and consist generally of two units i.e., the uppermost vesicular/amygdaloidal basalts with their weathering top portion often overlain by grey or red clay and the massive thin amygdular layer (with pipe amygdulars) towards the bottom. Localized patches of alluvium cover occur along the banks of major and minor rivers and streams in the district. In general, it is difficult to differentiate between alluvium and product of black cotton soil underlain by yellow clay with kankar. In Misrod valley the thickness of this alluvium/colluvium reaches up to 30 m.

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Age	Stratigraphic Unit	Lithology
<b>Quaternary to Recent</b>		<b>Alluvium and Laterite</b>
..... <b>Unconformity</b> .....		
<b>Upper Cretaceous to Lower Eocene</b>	<b>Deccan trap</b>	<b>Basalt</b>
<b>Upper Proterozoic</b>	<b>Vindhyan Super Group (Bhandar Group)</b>	<b>Sandstone and shale</b>

  
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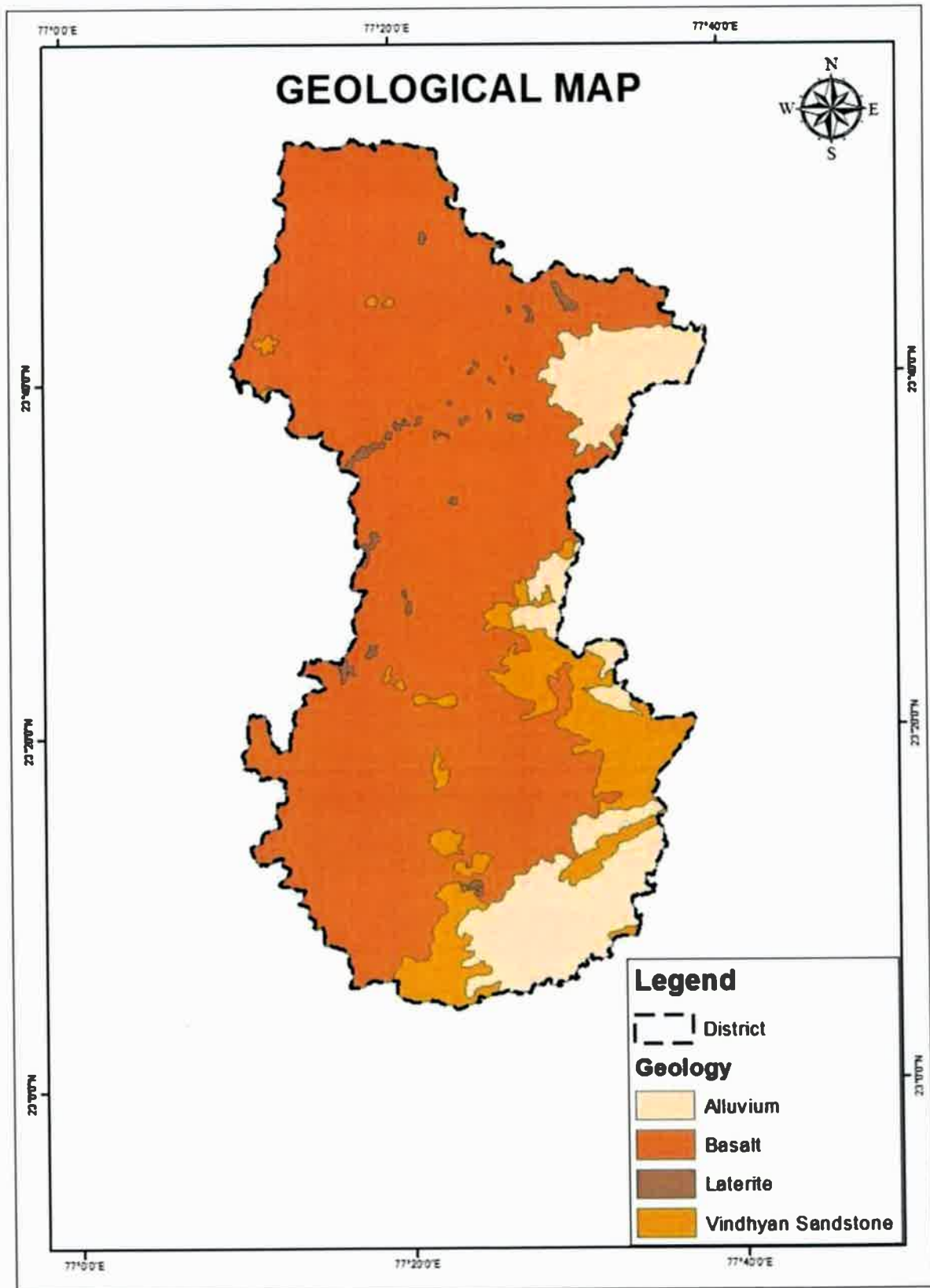


Figure 7 Geological Map of the District

*Adams*  
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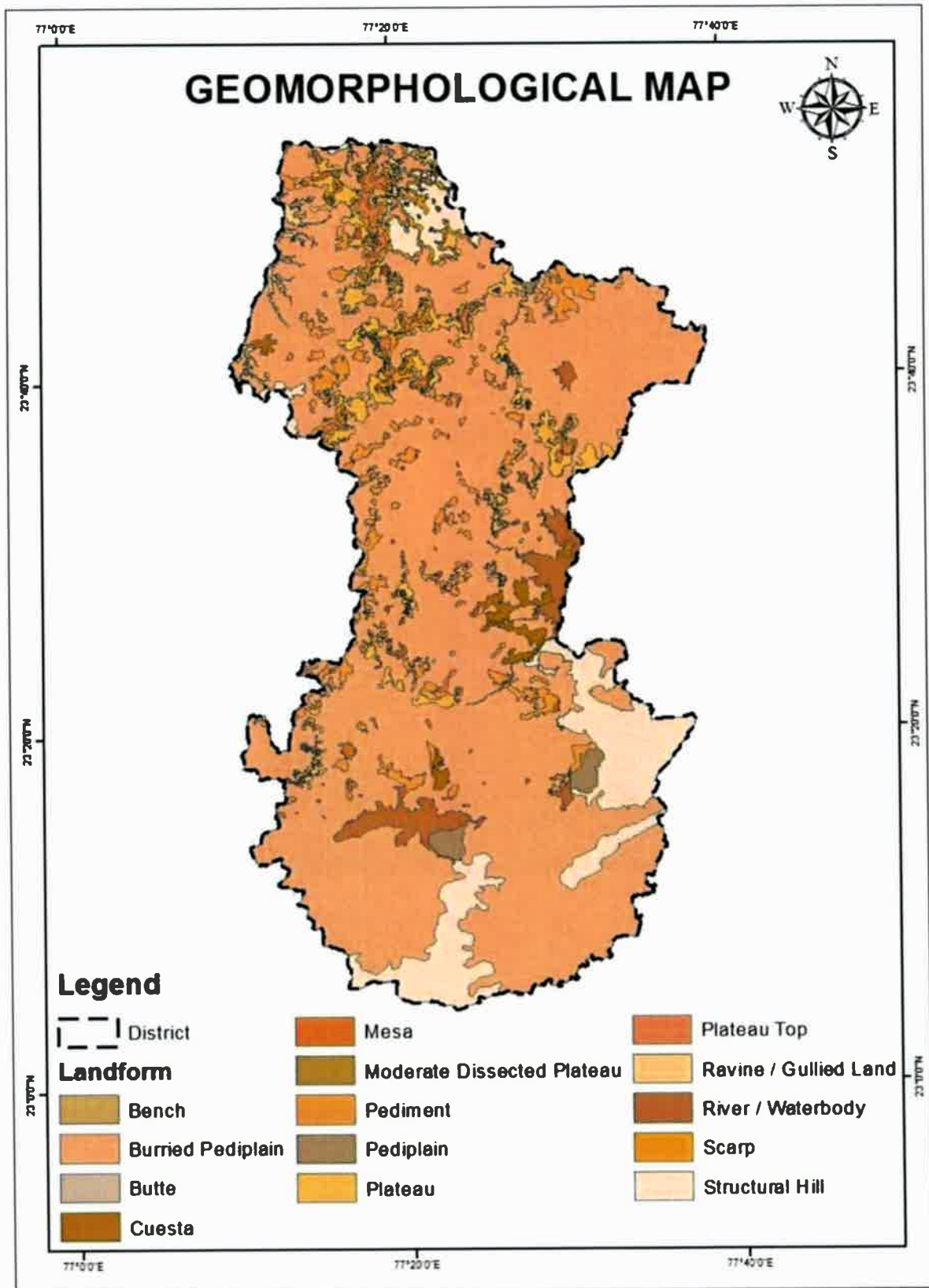


Figure 8 Geomorphologic Map of the District

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## 12 Drainage and Irrigation Pattern

### Drainage Pattern

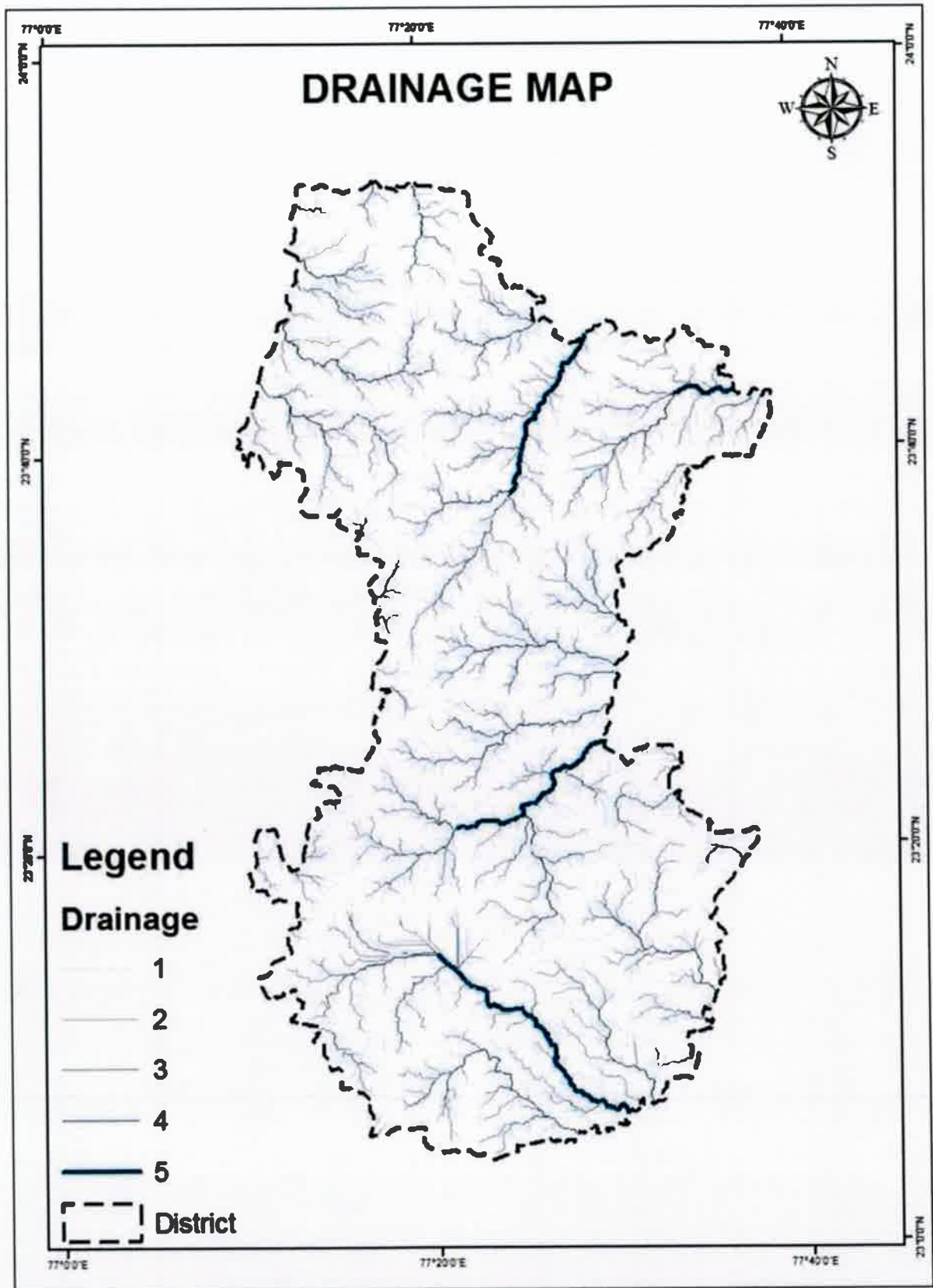
The district covers part of two river sub-basins. Betwa river sub basin covers 82 % of the area and lower Chambal basin covers 18 % area of district. The district is drained by river Betwa with its main tributaries like Kaliasot, Kerwa, Ajnal, Bah, Halali and Kolans. River Parwati forms the northwestern boundary of the district and its main tributaries Mawal and Ulti drain the area.

### Irrigation Practices

Irrigation is the artificial application of water to the soil for normal growth of plants. Water is an important determinant factor for production of crops in agriculture sector. Intensive and extensive cultivation of land depends mainly on the availability of water. Medium and minor irrigation schemes are implemented in the state for augmenting the water supply for agriculture. The various sources of irrigation are canals, tanks, tube wells, ordinary wells, springs and channels.

  
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**Figure 9 Drainage Map of the District**

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## 13 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.

Variation of groundwater levels in an area is an important component of hydrological cycle because it is a physical reflection of aquifer systems. As the change in groundwater level is directly related to groundwater balance and its continuous records provide direct information of subsurface geo-environmental changes due to withdrawal of groundwater.

The pre-monsoon depth to water level in Bhopal district ranges between 5.15 m bgl at Balrampurghati to 18.4 m bgl at Islamnagar in Phanda block. The most part of both blocks of the district have water level in the range of 10-18 m bgl during the pre-monsoon. The northern part of district in Berasia block and eastern part of district in Phanda block have the water level in the range of 5-10 m bgl. During post-monsoon period, the water level ranges from 1.24 m bgl at Balampurghati to 11.61 m bgl at Islamnagar. It is observed that in most part of the district the water level lies between 5 to 10 m bgl during this period. In the central part of Phanda block the water level lies between 10-13 m bgl. However, in the eastern part of Phanda block and southeastern part of Berasia block the water level lies between 0.5-6 m bgl. A comparison of pre-monsoon water level data with the post-monsoon water level data reveals that there is rise of water level in entire district during post-monsoon (0.02-2.5 m/year rise) while fall during pre-monsoon (0.08-0.37m/year fall).

### Surface Water

The district covers part of two river sub-basins. Betwa river sub basin covers 82 % of the area and lower Chambal basin covers 18 % area of district. The district is drained by river Betwa with its main tributaries like Kaliasot, Kerwa, Ajnal, Bah, Halali and Kolans. River Parwati forms the northwestern boundary of the district and its main tributaries Mawal and Ulti drain the area.



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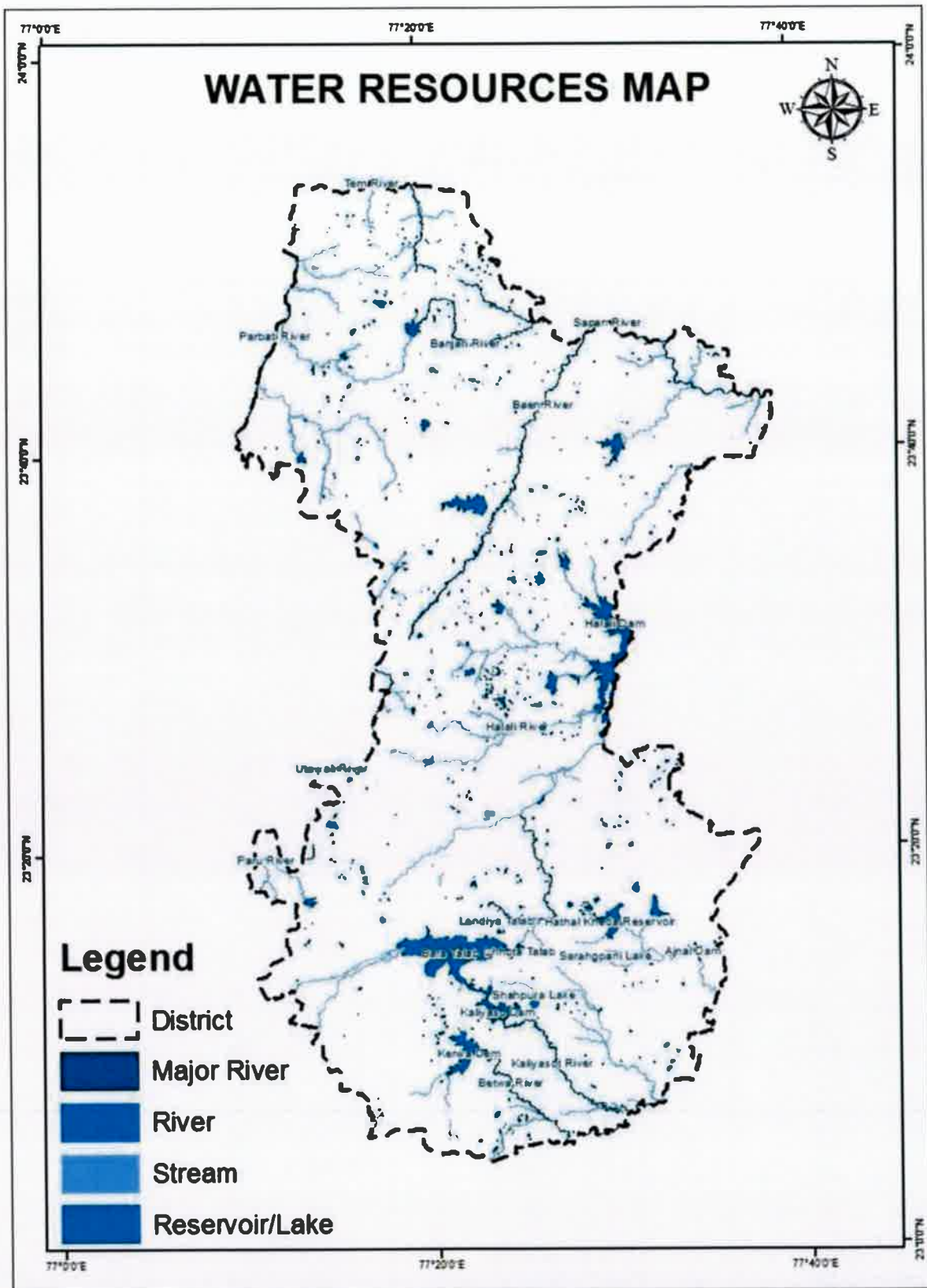
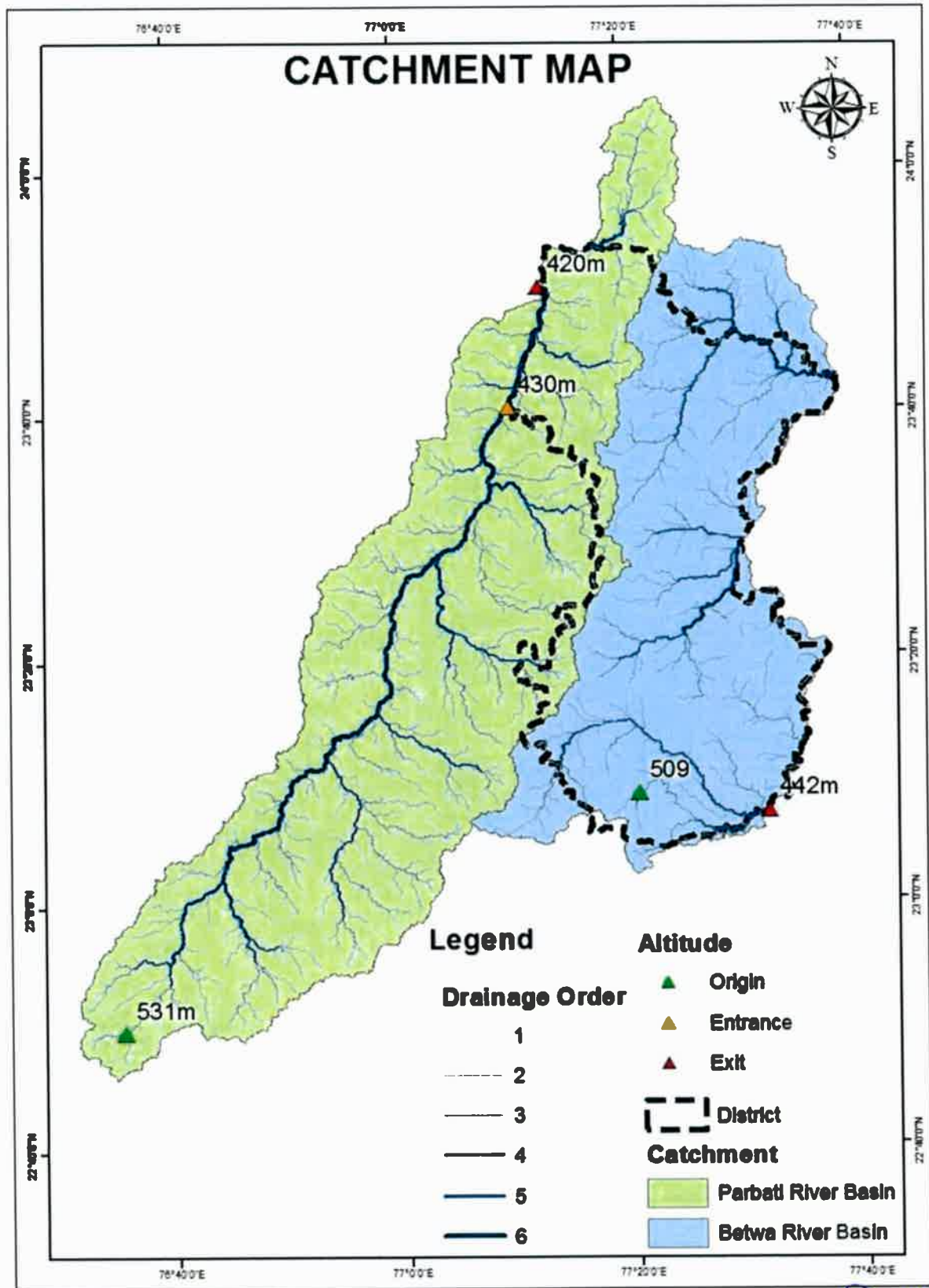



Figure 10 Water Resources Map of the District

*(Signature)*  
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**Figure 11 Catchment Map of District**

  
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Table 9 Details of Catchment Area

Sr. No.	Properties	Parbari River Basin	Kali sindh River Basin
1	Catchment Area upto Exit spot of Particular District	9,979 sq. km	7,489 sq. km
2	Catchment Area of Particular District	4,002 sq. km	2,162 sq. km
3	Length of the Catchment Area	156 km	180 km
4	Length of the Catchment Area of Particular District	68 km	77 km
5	Altitude at Origin of the River	610 m	556 m
6	Altitude at Entrance of the Particular District	450 m	425 m
7	Altitude at Exit of the Particular District	398 m	328 m

  
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## 14 Mineral Map of the district

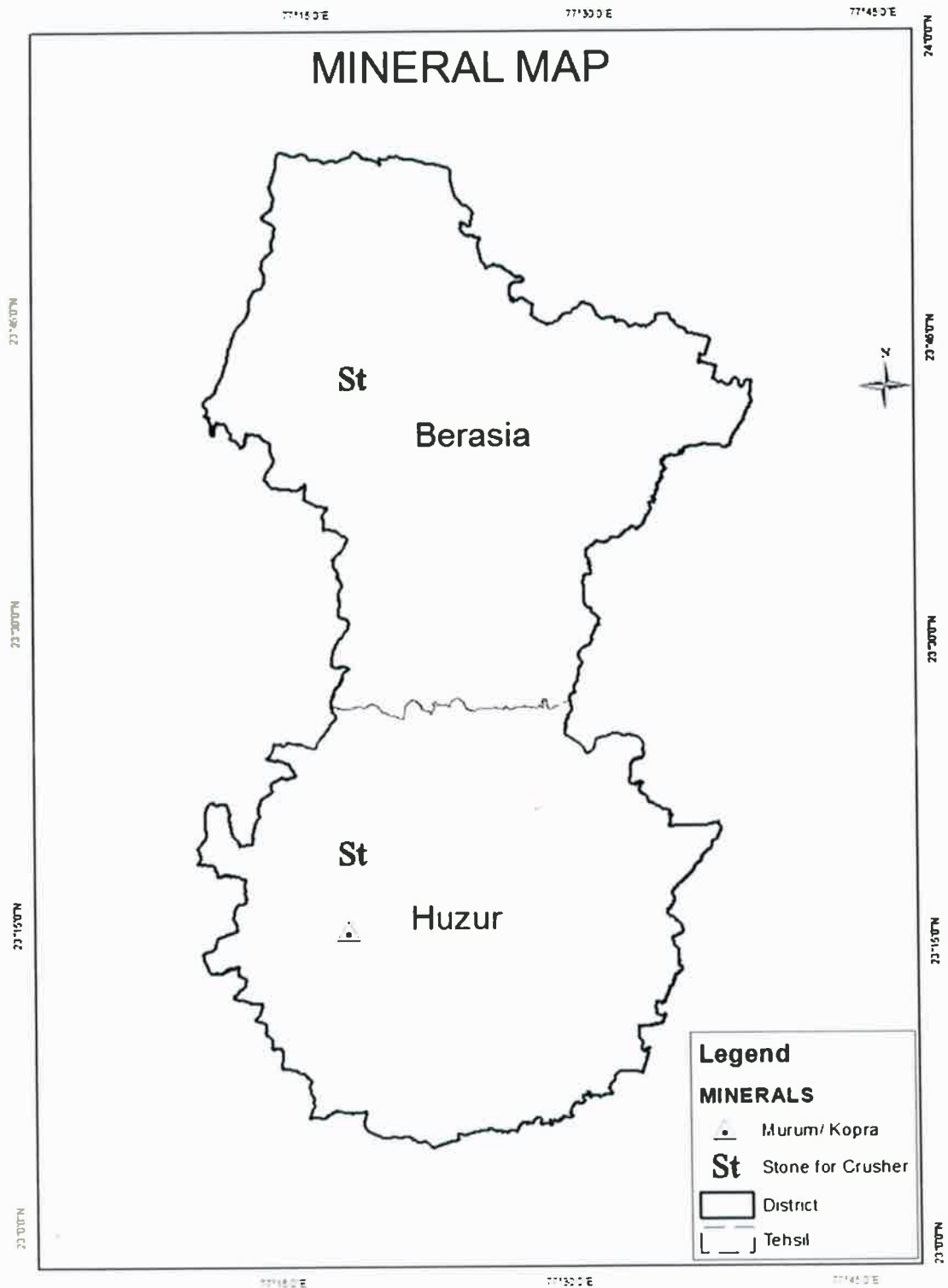


Figure 12 Mineral Map of the District.


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## 15 Details of Eco – Sensitive Area, if any, in the district

**Van Vihar National Park is a national park in Bhopal, the capital city of Madhya Pradesh in central India. Declared a national park in 1979, it covers an area of about 4.45 km<sup>2</sup>. It has the status of a national park, but is developed and managed as a modern zoological park, following the guidelines of the Central Zoo Authority. Animals are kept in near natural habitats. Most animals are either orphaned and brought from various parts of the state or are exchanged from other zoos. No animal is deliberately captured from the forest.**

  
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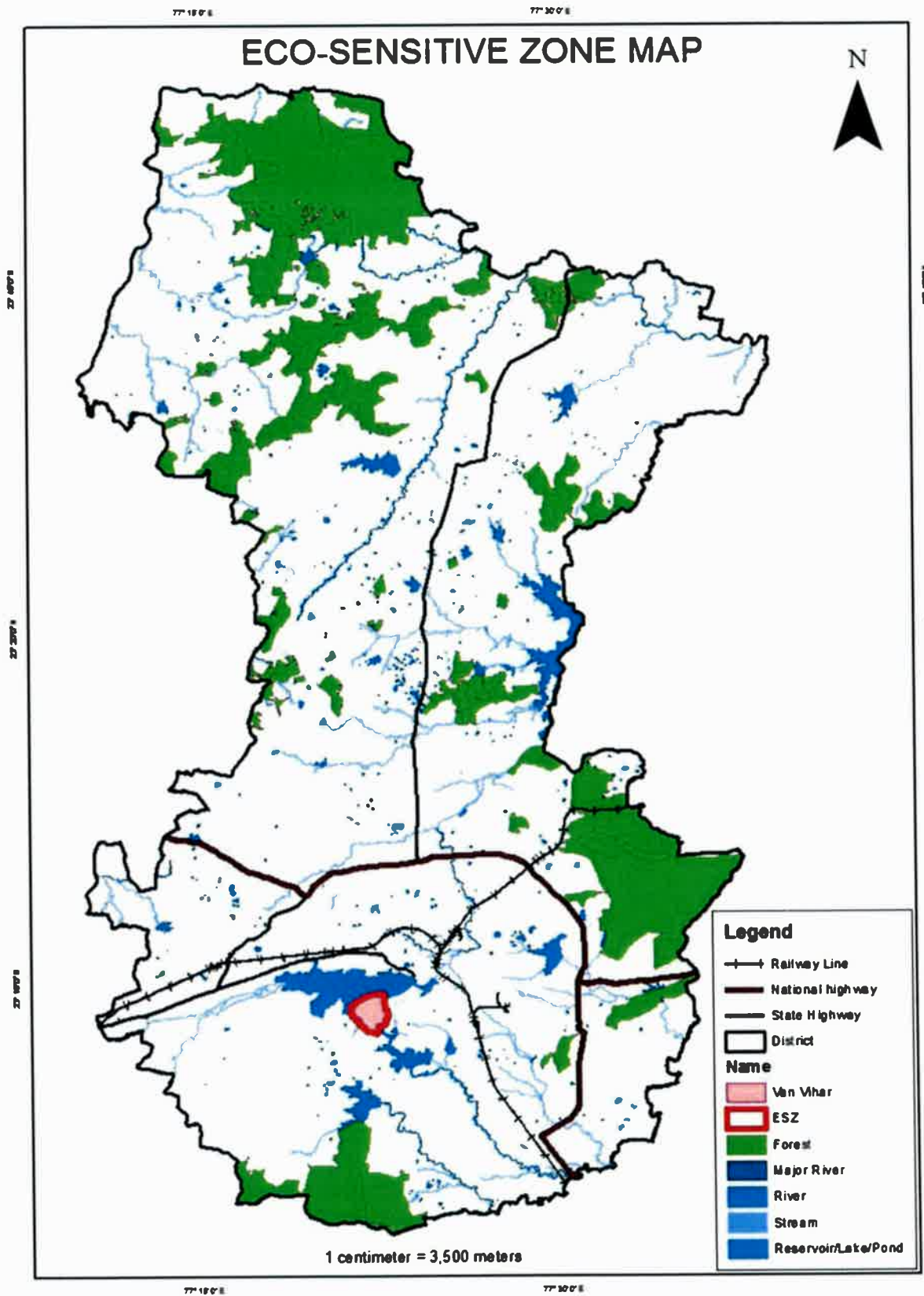


Figure 13 Eco-sensitive Map of the District.

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## 16 Impact on the Environment due to Mining Activity

Generally, the Environmental impacts can be categorized as either primary or secondary. Primary impacts are those, which are attributed directly by the project, secondary impacts are those, which are indirectly induced and typically include the associated investment and changed pattern of social and economic activities by the proposed action.

The impact has been ascertained for the project assuming that the pollution due to mining activity has been completely spelled out under the baseline environmental status for the entire ROM which is proposed to exploit from the mines.

### Air

Mining Operations are carried out by opencast semi mechanized/ Mechanized method, dust particles are generated due to various activities like, Excavation, Loading, handling of mineral and transportation. The air quality in the mining area depends upon the nature and concentration of emissions and meteorological conditions.

The major air pollutants due to mining activity includes: -

Particulate Matter (Dust) of various sizes.

- Gases, such as, Sulphur Dioxide, Oxides of Nitrogen, Carbon Monoxide etc., from vehicular exhaust.
- Dust is the single Air pollutant observed in the open cast mines. Diesel operating drilling machines, small amount of blasting and movement of machinery/ vehicles produce gaseous ( $\text{NO}_x$  and  $\text{SO}_x$ ) emissions, usually at low levels. Dust can be of significant nuisance surrounding land users and potential health risk in some circumstances.

### Water Impact

The mining operation leads to intersection of the water table which causes ground water depletion. Due to the interruption surface water sources like River, Nallah, Odai etc., surface water system, Drainage pattern of the area is altered.

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## Noise

Noise pollution is mainly due to operation of Machineries and occasional plying of machineries. These activities will create Noise pollution in the surrounding area.

## Land Environment

The topography of the area will change; due to the Topographical changes the entire Eco system will be altered.

## Flora and Fauna

The impact on biodiversity is difficult to quantify because of its diverse and dynamic characteristics.

Mining activities generally result in the deforestation, land degradation, water, air and noise pollution which directly or indirectly affect the faunal and floral status of the project area.

However, occurrence and magnitude of these impacts are entirely dependent upon the project location, mode of operation and technology involved.

## 17 Remedial Measure to mitigate the impact of Mining on the Environment:

### Air

Mitigated measures suggested for air pollution controls are based on the baseline ambient air quality of the area

The following measures are proposed to be adopted in the mines such as,

- Dust generation shall be reduced by using sharp teeth of shovels.
- Wet drilling shall be carried out to contain the dust.
- Controlled blasting techniques shall be adopted.
- Water spraying on haul roads, service roads and overburden dumps will help in reducing considerable dust pollution.
- Proper and regular maintenance of mining equipment's have to be considered.
- Transport of material in trucks covered with tarpaulin.

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- The mine pit water can be utilized for dust suppression in and around mine areas.
- Information on wind direction and meteorology will be considered while planning, so that pollutants, which cannot be fully suppressed by engineering technique, will be prevented from reaching the nearby agriculture area.
- Comprehensive green belt around overburden dumps has to be carried out to reduce to fugitive dust emissions in order to create clean and healthy environment.

## Water

- Construction of garland drains to divert surface run-off into the mining area.
- Construction of check dams / gully plugs at strategic places to arrest silt washoff from broken up area.
- Retaining walls with weep hole will be constructed around the mine boundaries to arrest silt wash off.
- The mined out pits shall be converted into the water reservoir at the end of mine life. This will help in recharging ground water table by acting as a water harvesting structure.
- Periodic analysis of mine pit water and ground water quality in nearby villages.
- Domestic sewage from site office & urinals/latrines provided in ML is discharged in septic tank followed by soak pits.

## Noise

- Periodic maintenance of machinery, equipment shall be ensured to keep the noise generated at minimum.
- Development of thick green belt around mining area and haul roads to reduce thenoise.
- Provision of earplugs to workers exposed to high noise generating activities. Workers and operators at work site will be provided with earmuffs.
- Conducting periodical medical check-up of all workers for any noise relatedhealth problems.
- Proper training to personnel to create awareness about adverse noise level effects.



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- Periodic noise monitoring at suitable locations in the mining area and nearby habitations to assess efficacy of adopted control measures.
- During the blasting, optimum spacing, burden and charging of holes will be made under the supervision of competent qualified mines foreman, mate as approved by Director of Mines safety.

## Land Environment

- Riparian vegetation should be developed that doesn't stress with changes overshoot period of time.
- Safety barrier zone should be left out in order to prevent quick sand condition or rapid erosion of river banks.
- Development of suitable greenbelt in safety and barrier zone
- Waste dumps should be stabilized taking proper measures
- Degradation of land environment should be checked by briefing the worker about routine works regarding cleanliness and proper mining measures.
- No such infrastructure or any construction should be done that might hinder the natural flow of the river.

## Biological Environment

- Development of gap filling saplings in the safety barrier left around the quarry area.
- Carrying out thick greenbelt with local flora species predominantly with long canopy leaves on the inactive mined out upper benches.
- Development of dense poly-culture plantation using local flora species in the mining area at conceptual stage.
- Adoption of suitable air pollution control measures as suggested above.
- Transport of materials in trucks covered with tarpaulin.
- Construction of garland drains and settling tank to arrest silt wash off from lease area.
- Construction of retention walls around lower boundary of mining area to arrest silt wash off and roll down boulders.
- Retaining walls with weep hole will be constructed around the mine boundary to arrest silt wash off.




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## 18 Reclamation of Mined out area

There is no proposal for backfilling, reclamation and rehabilitation. The quarry pit should be fenced by barbed wire to prevent inherent entry of public and cattle. The quarried out pit will be allowed to collect rain and seepage water which act as a reservoir for storage. The Quarried pit may be used as water reservoir for both Domestic and Agriculture purpose, in case of stone mining and inland sand mining. For Rover sand mining, the quarry should be demarcated using pillars and left for replenishment during monsoon season. No mining should be undertaken during monsoon period to avoid accidents and mishaps.

## 19 Details of the area of where there is cluster of mining lease viz no. mining lease Location.

No cluster in sand mine.

  
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## 20 Mineral Lease Marked on the District Map

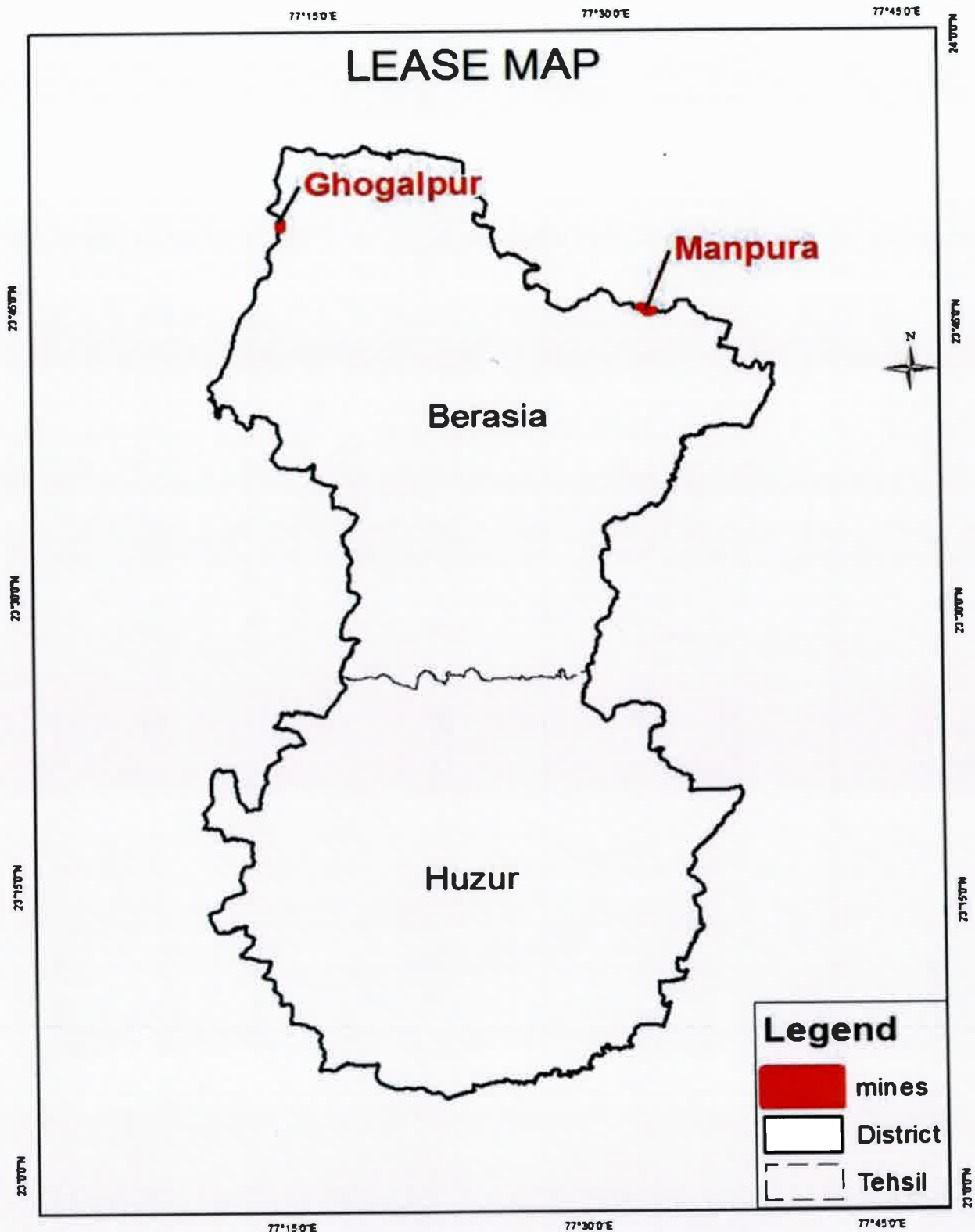


Figure 14 Mining Lease Marked on the district Map

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## 21 Sand Replenishment Plan and Projections


### Sand Replenishment Assessment

The process of sand replenishment is highly dependent upon the rainfall received in the catchment areas of rivers and their tributaries and velocity of river. It is a dynamic process. Thus it is difficult to predict, what quantity of sand may be reclaimed/replenished by river. Because, in case of less rain, less water in the river, there may be less erosion and transportation may also be minimal and as a result deposition too will be less. Moreover, in case of floods, the sudden gush of water may force the change in river course, thus old sites of sand deposition may not be relevant. Thus, the above figures may just be a mere prediction, based on the production in the preceding years. More so, practically, it is not possible that in such a short period, single person can visit each spot within the district and determine how much quantity of sand may be replenished every year. The data narrated in the report, regarding annual deposition of sand and associated aggregates and minable mineral potential is concerned, is only an estimation based on the production data provided by the district mining office. Thus, the figures may vary from area to area and year on year basis. Therefore, this document is not a static one but have to be a dynamic one, the figures of which may vary with respect to the area under question for which the prior environmental clearance will be sought.

In order to establish a safe extraction limit, such that the extracted sand gets replenished annually, a replenishment study is to be carried out. For this purpose, the river bed RL at selected points in the dry portion of riverbed will be measured during pre-monsoon period and again during post- monsoon period in order to assess the annual quantum of sand deposition. If it is observed that, there is an average increase in riverbed RL, it shows that it is due to deposition of sand during the monsoon flow of the river and by multiplying it with the area of lease one can measure the quantity of sand replenished every year.

Sand quarrying from the river bed will have both positive and negative impacts. **NEGATIVE IMPACTS**

It includes destruction of natural river course, sand erosion, bank erosion, bank cutting and widening and deepening of river bed, change in hydrological status and recharging conditions and destruction to closely linked flora, fauna and aquatic life.

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

# District Survey Report: Bhopal

## POSITIVE IMPACTS

Employment and socio-economic status of the habitats living besides the river depends on sand mining industries. Construction of concrete infrastructure, roads and some other related activities depends on the river bed sand. Continuous accumulation of sand ultimately leads to

the reduction in water carrying capacity of the river leading excessive flood in the river. Sustainable extraction of sand from river will lead to overcoming the problem.

Initially replenishment study requires four surveys. The first survey needs to be carried out in the month of April for recording the level of mining lease before the monsoon. The second survey is at the time of closing of mines for monsoon season. This survey will provide the quantity of the material excavated before the offset of monsoon. The third survey needs to be carried out after the monsoon to know the quantum of material deposited/replenished in the mining lease. The fourth survey at the end of March to know the quantity of material excavated during the financial year. For the subsequent years, there will be a requirement of only three surveys. The results of year-wise surveys help the state government to establish the replenishment rate of the river. Based on the replenishment rate future auction may be planned. The replenishment period may vary on nature of the channel and season of deposition arising due to variation in the flow. Such period and season may vary on the geographical and precipitation characteristic of the region and requires to be defined by the local agencies preferable with the help of the Central Water Commission and Indian Meteorological Department. The excavation will, therefore, be limited to estimated replenishment estimated with consideration of other regulatory provisions.

## 22 Need for Sand Replenishment Study and Factors to be considered

Environmental status of the mined out area may be affected badly if proper care is not taken to ensure sustainable extraction of sand from river bed. Proper study of the following factors must be taken into consideration to reveal the actual potential of sand deposition in river course after completion of periodical excavation annually. The main factors to be considered for the study of the replenishment potential of particular river course are:

# District Survey Report: Bhopal

Formation of sand comprises of the following:

- Catchment area and geographical strata
- Erosion, weathering and transportation of load
- Climatic conditions, precipitation
- Geomorphology, physiographic manmade structures and activity details

Deposition/sedimentation of material or sediment yield depends upon several factors like:

- Catchment area
- Span of river/ flood plain
- Travelling distance of suspended particles
- Slope/gradient/ depth of water channel;/meandering of river
- Geology traversed
- Climatic conditions
- Tributaries/ confluence
- Type/ stage of river and flow velocity
- Flow during lean period

  
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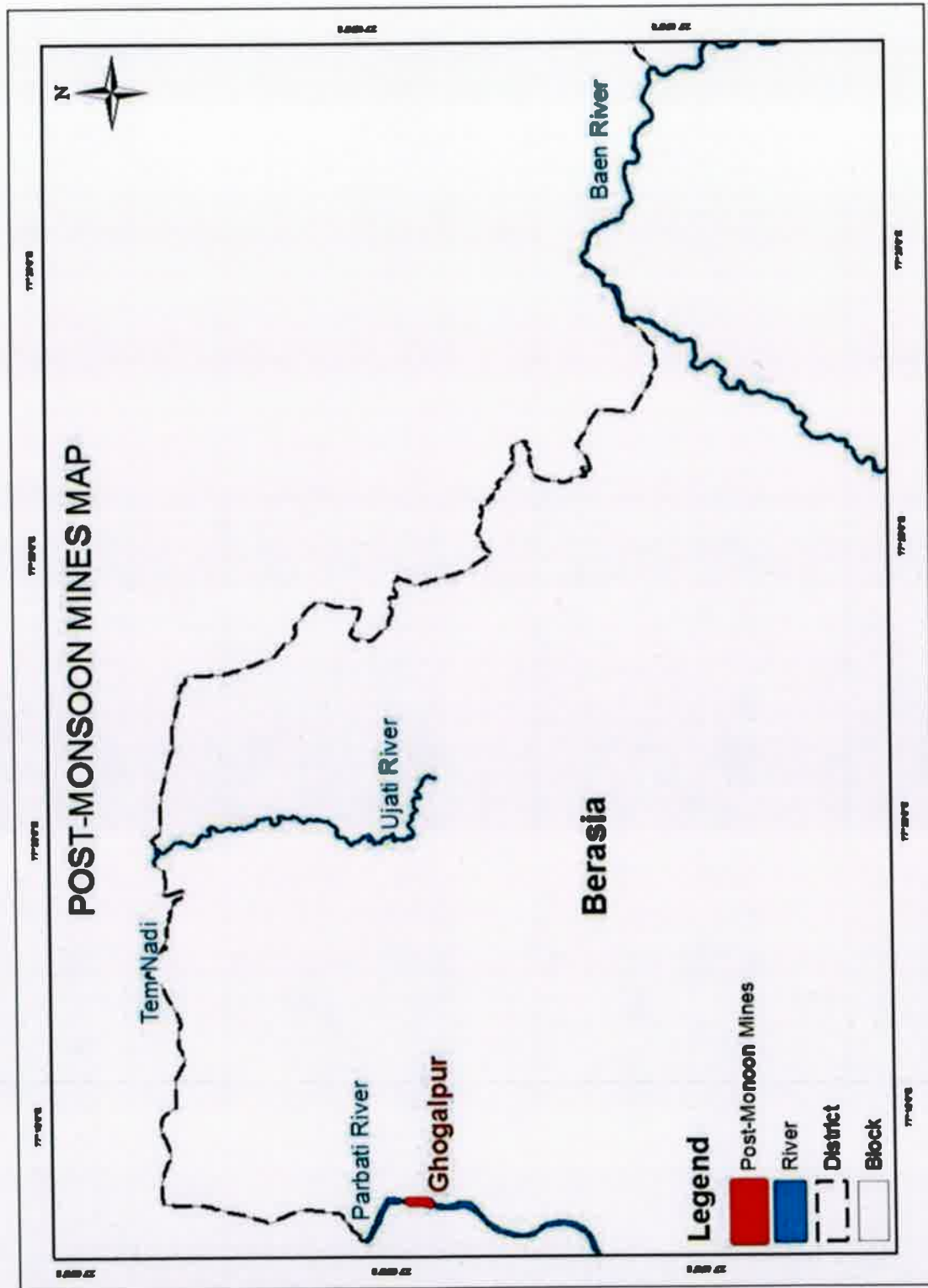


Figure 15 Sand Mining Map of the District – Post Monsoon

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Table 10 Sand Mining Area based on Pre-Monsoon Map

Sr. No.	Name of Mines	Tehsil	Total Area in square meters	Mines Length (In Meter)	Mines Width (In Meter)	Mines Depth (In Meter)	Total Estimated Quantity in Cubic meters	Estimated 60 % Quantity in Cubic meters	Estimated 60 % Quantity in Metric Ton (Cu.Mt X 1.4 = Mt)
1	Manpura	Berasia	50000	1352	36.98	0.10	4999.69	2999.81	4199.73
2	Ghoghhalpur	Berasia	50000	636.97	78.49	0.10	4999.57	2999.74	4199.63
			100000	1988.97	115.47	0.20	9999.26	5999.55	8399.36

Table 11 Sand Mining Area based on Post -Monsoon Map

Sr. No.	Name of Mines	Tehsil	Total Area in square meters	Mines Length (In Meter)	Mines Width (In Meter)	Mines Depth (In Meter)	Total Estimated Quantity in Cubic meters	Estimated 60 % Quantity in Cubic meters	Estimated 60 % Quantity in Metric Ton (Cu.Mt X 1.4 = Mt)
1	Manpura	Berasia	50000	1352	36.98	0.5	24998.48	14999	20999
2	Ghoghhalpur	Berasia	50000	636.97	78.49	0.5	24998	14999	20999
			100000	1988.97	115.47	1.0	49996.48	29998	41998

  
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Table 12 Comparative Study: Pre and Post Monsoon Scenarios

Sr. No.	Name of Mines	Tehsil	Pre-Monsoon					Post-Monsoon					
			Mines Length (In Meter)	Mines Width (In Meter)	Mines Depth (In Meter)	Total Estimated Quantity in Cubic meters	Estimated 60 % Quantity in Cubic meters	Mines Length (In Meter)	Mines Width (In Meter)	Mines Depth (In Meter)	Total Estimated Quantity in Cubic meters	Estimated 60 % Quantity in Cubic meters	Quantity Difference
1	Manpura	Berasia	1352	36.98	0.10	4999.69	2999.81	1352	36.98	0.50	24998.48	14999	9999.48
2	Ghoghalpur	Berasia	636.97	78.49	0.10	4999.57	2999.74	636.97	78.49	0.50	24998	14999	9999
			1988.97	115.47	0.20	9999.26	5999.55	1988.97	115.47	1.00	49996.48	29998	19998.48



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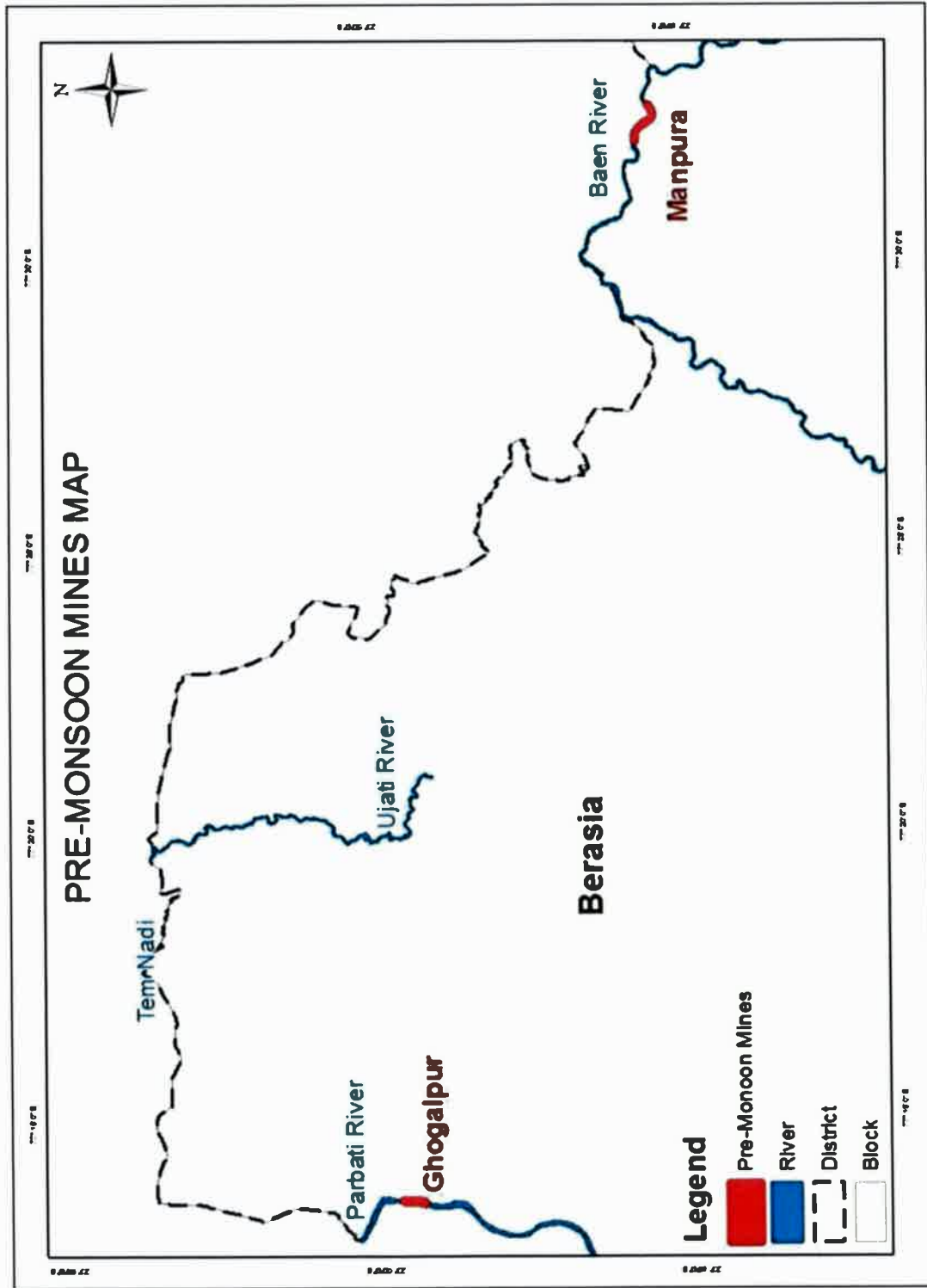
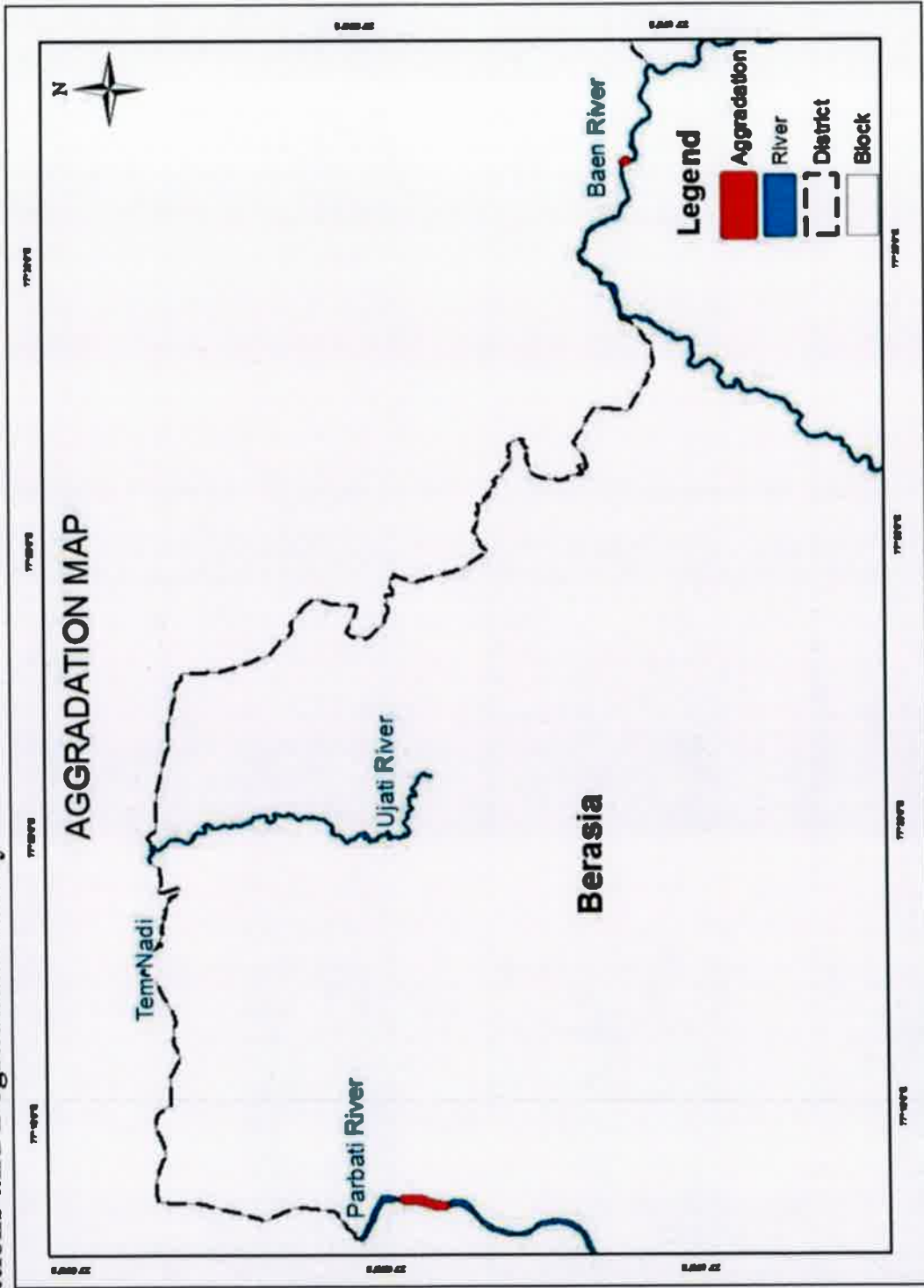


Figure 16 Sand Mining Map of the District – Pre-Monsoon

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

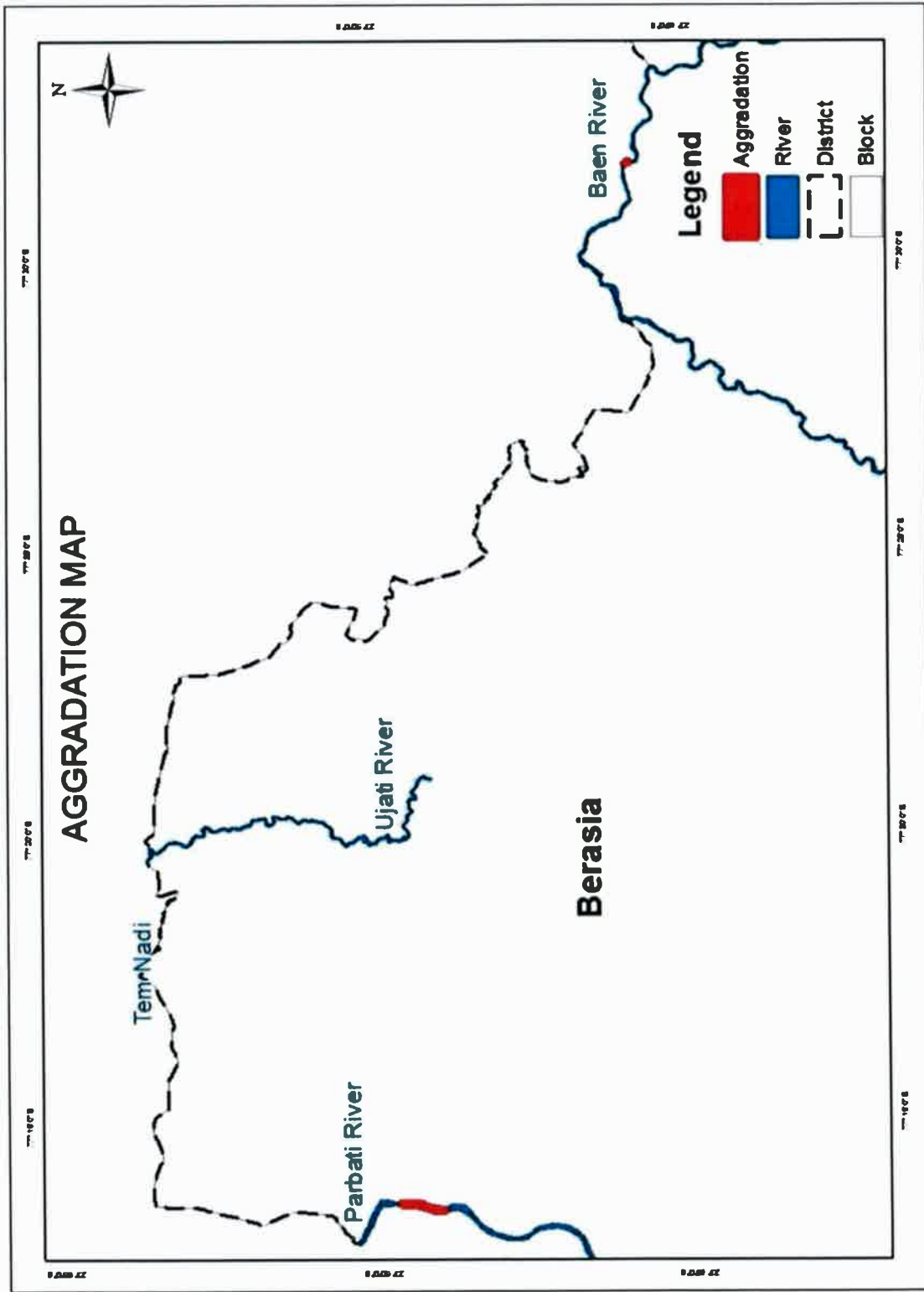
Aggradations and Degradation Study



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Figure 17 Aggradations Map of the District






  
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Figure 18 Degradation Map of the District

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Table 13 Block Wise Details of Aggradations and Degradations

Sr. No.	Aggradation (Pre-Monsoon)			Degradation (Post-Monsoon)			
	Block Name	Total Area in sq. m.	Depth After Aggradation	Total Quantity in Cub. m.	Total Area in sq. m.	Depth After Degradation	Total Quantity in Cub. m.
1	Berasia	1,00,000	0.10	9999.26	1,00,000	0.50	29998

Based on the study presented above about aggregation & degradation and the specific studies for each mine during the preparation of mining plan, the areas of prohibition for mining can be found out. The areas facing aggregation are possible and promising areas for mining of sand whereas the areas facing severe degradation are to be left out and should be left undisturbed. Mining should not be allowed at such location.

Table 14 Drainage System with description of main Rivers

S. NO.	Name of the River	Area Drained	Area Drained in the District
1	Parbati River Basin	9979 sq. km.	4002 sq. km.
2	Kali sindh River Basin	7489 sq. km.	2162 sq. km.

Table 15 Salient Features of Important Rivers and Streams

S. NO.	Name of the River or Stream	Total Length in the District (in km)	Place of Origin	Altitude at origin
1	Parbati River Basin	68 km	Vindhyan Range, Sehore	610 m
2	Kali sindh River Basin	77 km	Vindhyan Range near Bagli in Dewas district	556 m

# District Survey Report: Bhopal

Table 16 Details of the Concession area in the district

Name of River or Stream	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in meters.)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in m <sup>2</sup> )  X Depth	Total Volume in c.m	Volume/ Mineable mineral potential (in m <sup>3</sup> (60 % of total mineral potential) in c.m	Mineable mineral potential (In Metric Ton) (60 % of total mineral potential) Cu.mt X 1.4 = MT	Sand Quantity available in Cubic Meter ( based on field Study)	Annual Sand Production in last Three Year (in Cubic Meter)		
									2019-20	2020-21	2021-22
Parbati	Ghoghalpur	636.97	78.49	49995.77 X 0.5	24998	14999	20998	3750	Nil. Agreement under process	2000	2000
Kali sindh	Manpura	1352	36.98	49996.96 X 0.5	24998.48	14999	20999	3750	Nil. Agreement under process	2000	2000

In Bhopal District, mineral Sand is found in form of Bajri, which contains a large amount of gravels, boulders and soil. Practically it is not possible to mine out sand only from these deposits. To obtain sand from these deposits, one has to screen out the whole material. The recovery percentage is very low in comparison with the mines area. In this process 75% of material consists of boulder, gravel and soil, and rest 25% material consists of sand (bajri). Also in sand mines of Bhopal, sand is not found in a continuous manner thus mineral potential calculated by mines area largely differs from the actual sand quantity available. Present calculation of sand quantity available is based on the field observations and study. Even though the recovery of sand from these mines is very low, these mines have been included in the auction, to curb illegal mining.

Note: State Level Environment Impact Assessment Authority, M.P. (EPCO)  
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Table 17 Details of Annual Deposition

Name of River or Stream	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in meters.)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in m <sup>2</sup> ) X Depth	Total Volume in c.m	Volume/ Mineable mineral potential (in m <sup>3</sup> (60 % of total mineral potential) in c.m	Mineable mineral potential (In Metric Ton) (60 % of total mineral potential) Cu.mt X 1.4 = MT
Parbati River	Ghoghalpur	636.97	78.49	49995.77 X 0.5	24998	14999	20998
Kali sindh River	Manpur	1352	36.98	49996.96 X 0.5	24998.48	14999	20999

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## 23 Risk Assessment & Disaster Management Plan:

The Disaster Management Plan (DMP) is supposed to be a dynamic, changing, document focusing on continual improvement of emergency response planning and arrangements.

The disaster management plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the disaster management plan, it should be widely circulated and personnel training through rehearsals/induction conducted by the respective department from time to time.

### General Responsibilities during an Emergency

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers in-charge, should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

### Co-ordination with Local Authorities

The mine manager who is responsible for emergency will always keep a jeep ready at site. In case any eventualities the victim will be taken to the nearby hospitals after carrying out the first aid at site. A certified first aid certificate holder will be responsible to carry out the first aid at site. The mine manager should collect and have adequate information of the nearby hospitals, fire station, police station, village Panchayat heads, taxi stands, medical shop, district revenue authorities etc., and use them efficiently during the case of emergency.

## Plantation and Green Belt Development in respect of lease granted in the District:

Mining activities result in pollution of the environment. This requires protection of our environment. Plantation is the oldest technology for the restoration of the land damaged by the human activities as well as air pollution.

Trees are highly suitable for the detection and monitoring of the air pollutants and have been

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(EPCO)  
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effectively used at various places

By planting trees we can achieve the dual purpose of bio aesthetics as well as mitigation of pollution. Proper planning and plantation scheme depends upon the magnitude and type of pollution, selection of pollution tolerant and dust capturing plants

The plants should be ever green, large leaved, with rough bark, ecologically compatible, with low water requirement, requiring minimum care, capable to absorb pollutants, pollutant resistant, agro climatically suitable, fast growing, free from wind throw and breakage and with high pollution tolerance index. The species should be suitable to the climate, topography and soil. A minimum two rows of plantation will be carried out to minimize the effect of pollution. This would attenuate the pollutants level.

  
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## Mine Site Plantation Photograph



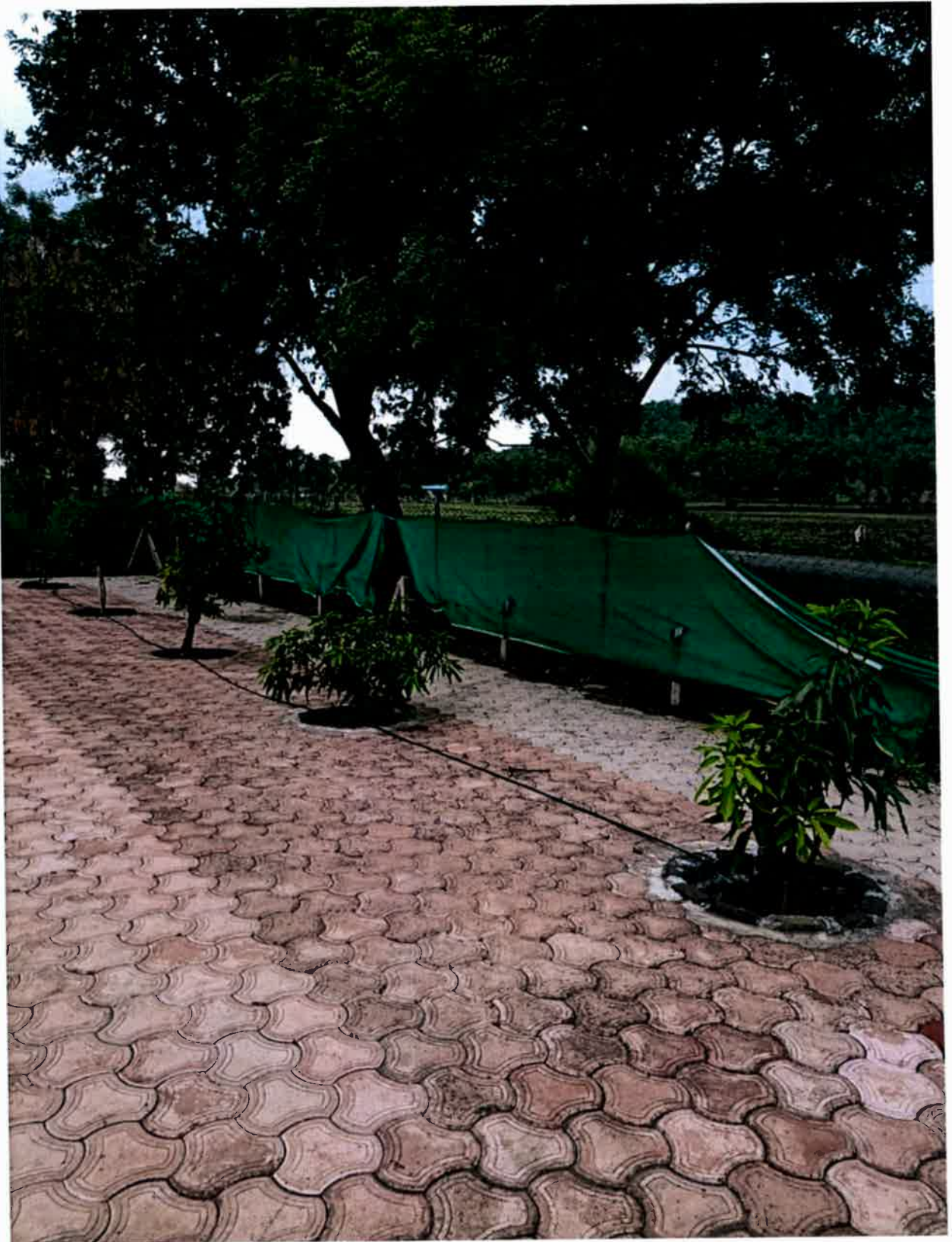


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(Cr. 5)  
Parvati Park Parisar  
E-5, Arera Colony, Bhopal (M.P.)



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E 5, Arera Colony, Bhopal (M.P.)

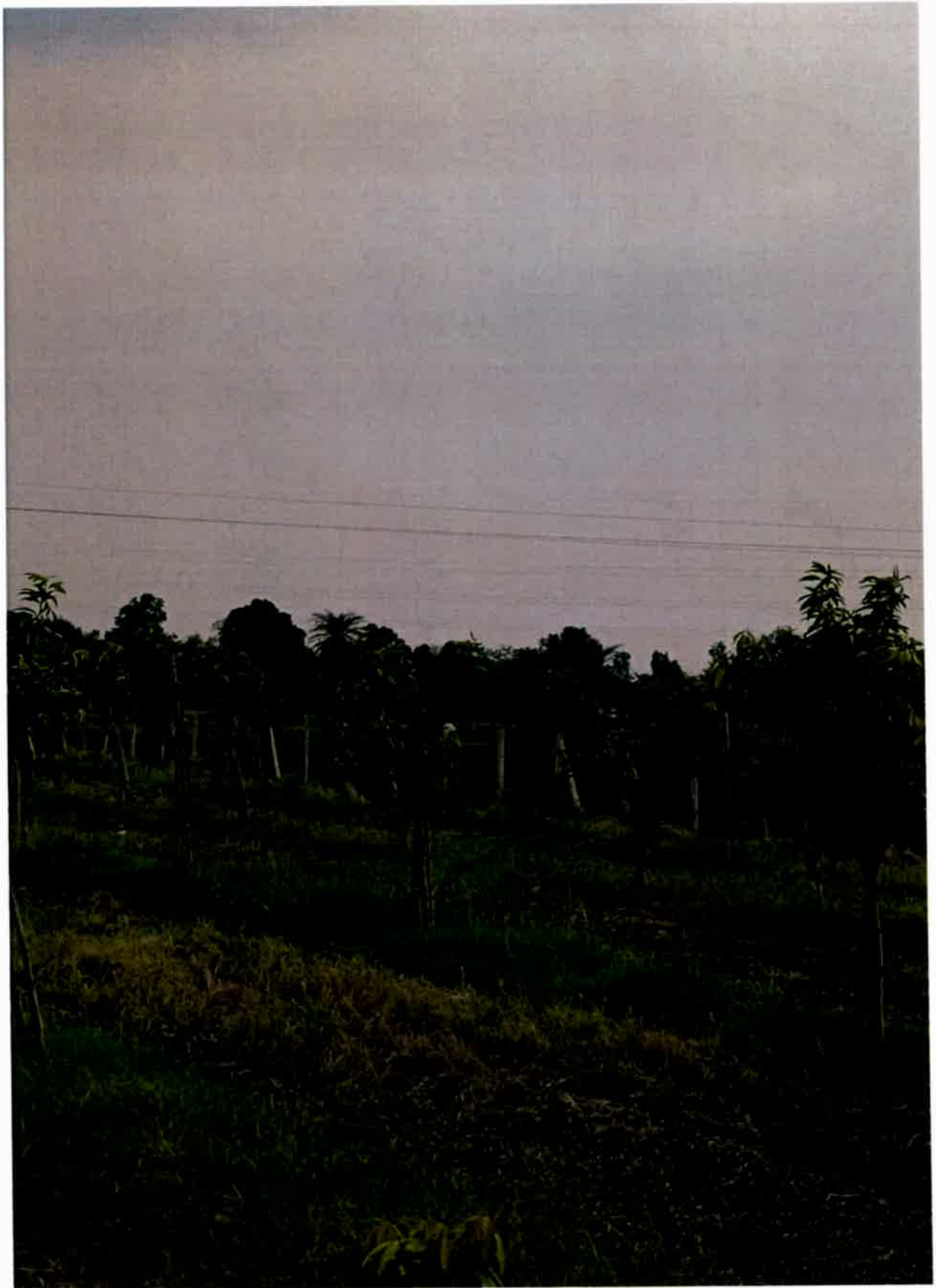


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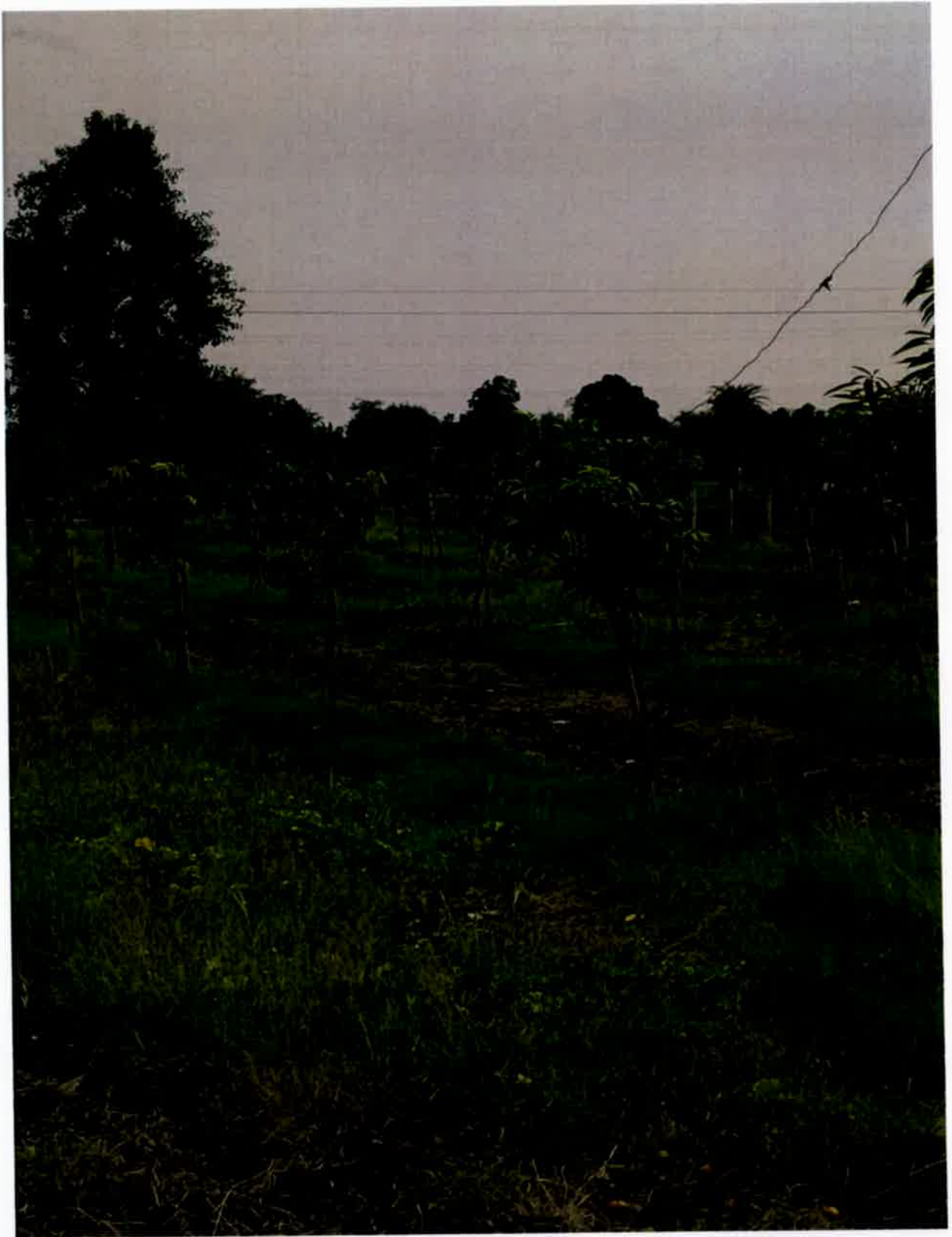




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(EIA-2002)  
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(EPCAA)  
Paryavaran Parisar  
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*Parvati*  
Level Environment & Audit  
Assessment Authority, M.P.  
(ET) 101  
Parvati, Bhopal  
E-5, Arera Colony, Bhopal (M.P.)



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*Abhinav*  
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Assessment Authority, M.P.  
(EPCO)  
Paryavaran Parisar  
F-5, A-2/3 Colony, Bhopal (M.P.)



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*Signature*

State Level Environment Impact  
Assessment Authority, M.P.

(E-3) 103

Parvati Nagar Parisar

E-5, Anara Colony, Bhopal (M.P.)



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Table 18 Re commended Plant species for green belt development/plantation.

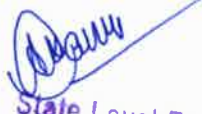
Sr. No.	Botanical Name	Common Name	Family
01	<i>Tectona grandis</i>	Teak	Lamiaceae
02	<i>Delbergia sissoo</i>	Sissoo	Fabaceae
03	<i>Albizia lebbeck</i>	Black siris	Fabaceae
04	<i>Pongamia pinnata</i>	Karanji	Fabaceae
05	<i>Buteamono sperma</i>	Palas	Fabaceae
06	<i>Terminalia arjuna</i>	Arjun	Combretaceae
07	<i>Cassia fistula</i>	Amaltas	Fabaceae
08	<i>Albizia procera</i>	White Siris	Fabaceae
09	<i>Wrightia tinctoria</i>	Sweet indrajao	periplocaceae
10	<i>Emblica officinalis</i>	Indian gooseberry	Euphoriaceae
11	<i>Gemelin arborea</i>	Gamhar/Khamer	Phyllanthaceae
12	<i>Mangifera Indica</i>	Mango	Anacardiaceae
13	<i>Bambusa Vulgaris</i>	Bamboo	Poeceae
14	<i>Ficus benghalensis</i>	Bargad	Moraceae
15	<i>Manilkara hexandra</i>	Khirni	Spotaceae
16	<i>Terminalia chebula</i>	Harra	Combretaceae
17	<i>Phyllanthus emblica</i>	Amla	Phyllanthaceae
18	<i>Terminalia bellircia</i>	Bahera	Combretaceae
19	<i>Tamaindus indica</i>	Imli	Caesalpiaceae
20	<i>Bougainvillea glabra choisy</i>	Boogenbel	Nyctagianaceae
21	<i>Hibiscus rosa-sinensis L</i>	Gurhal	Malvaceae
22	<i>Nerium indicum Mill.</i>	Kaner	Apocynaceae
23	<i>Plumeria rubra L</i>	Champa	Apocynaceae
24	<i>Tabernaemontana divaricata</i> (L) R. Br. Ex Roem. & Schult	Chandni	Apocynaceae
25	<i>Ailanthus excels Roxb.</i>	Maha nimbi	Simaroubaceae
26	<i>Alastonia scholaris (L.) R.Br</i>	Chitvan	Apocynaceae



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27	<b>Cassia Fistula L</b>	<b>Amaltas</b>	<b>Caesalpiaceae</b>
28	<b>Butea monosperma (Lamk) taub</b>	<b>Khakra/ Palash</b>	<b>Fabaceae</b>
29	<b>Nyctanthes arbour-tristis L.</b>	<b>Harsingar</b>	<b>Oleaceae</b>
30	<b>Azadirachta indica A. Juss</b>	<b>Neem</b>	<b>Meliaceae</b>
31	<b>Ficus religiosa L</b>	<b>Pipal</b>	<b>Moraceae</b>
32	<b>Pterospermum acerifolium willd</b>	<b>Kanak Champa</b>	<b>Sterculiaceae</b>
33	<b>Tectona grandis L</b>	<b>Teak/ Sagun</b>	<b>Verbenaceae</b>
34	<b>Terminalia cattapa L</b>	<b>Jangli badam</b>	<b>Combretaceae</b>
35	<b>Ziziphus mauritiana Lamk.</b>	<b>Bada ber</b>	<b>Rhamnaceae</b>



  
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(EPCO)  
Paryavaran Parisar  
E-5, Area Colony, Bhopal (M.P.)

# State Level Expert Appraisal Committee

Office at M.P. Pollution Control Board

Paryavaran Parisar, E-5 Sector, Arera Colony, Bhopal (M.P.) – 462016

☎: (0755) 2466 735 E-mail ID: seacof madhyapradesh@rediffmail.com

No. 259 / SEAC Gen. /2022

Bhopal, date 9/9/2022

प्रति,

सदस्य सचिव,

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण(MPSEIAA),  
एप्को, पर्यावरण परिसर अरेरा कालोनी,  
भोपाल (म.प्र.) 462003.

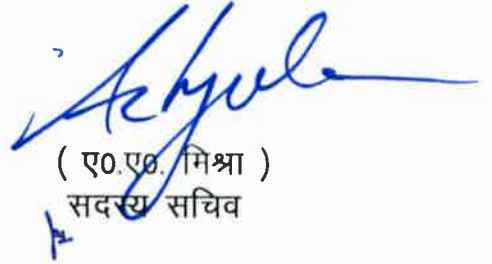
विषय :- नवीन जिला सर्वेक्षण रिपोर्ट के अनुमोदन बाबत।

संदर्भ:- आपका पत्र क्र. 1597 दिनांक 09/09/2022.

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उपरोक्त विषयांतर्गत संदर्भित पत्र के परिपेक्ष्य में निर्देशानुसार नवीन जिला सर्वेक्षण रिपोर्ट राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) से अनुशासित जिलेवार सूची अनुसार निर्देशानुसार संलग्न कर आपकी ओर अग्रिम कार्यवाही हेतु प्रेषित है। कृपया उपरोक्त संबंध में अनुरोध है, कि कार्य संपादन उपरांत उक्त नवीन जिला सर्वेक्षण रिपोर्ट की मूल प्रतियां राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) के कार्यालय को वापस करने का कष्ट करे।

संलग्न:- जिलेवार सूची।

  
( ए.ओ. मिश्रा )  
सदस्य सचिव

State Level Environment Impact  
Assessment Authority, M.P.  
(EPCO)

Receipt No.....1059.....

Date.....9/9/22.....

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) से अनुशंसित जिलेवार सूची –नवीन जिला सर्वेक्षण रिपोर्ट	
क्रमांक	जिला
1.	बालाघाट (रेत एवं गौण खनिज)
2.	रायसेन (रेत खनिज)
3.	डिण्डोरी (रेत खनिज)
4.	जबलपुर (रेत खनिज)
5.	बड़वानी (रेत एवं गौण खनिज)
6.	उमरिया (रेत)
7.	धार (रेत एवं गौण खनिज)
8.	सिंगरौली (रेत)
9.	देवास (रेत)
10.	अनुपपुर (रेत एवं गौण खनिज)
11.	दतिया (रेत)
12.	सीधी (रेत)
13.	भोपाल



# राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, म.प्र.

(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

फैक्स नं. - 0755-2462136

No: 15757 SEIAA/2022

Date:

9/9/22

प्रति,

कलेक्टर

जिला - भोपाल (म.प्र.)

विषय: नवीन जिला सर्वेक्षण रिपोर्ट - भोपाल (रेत खनिज)

संदर्भ: आपका पत्र क्र. 2435, दिनांक 17.08.2022 ।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 745वी बैठक दिनांक 05.09.2022 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 590वीं बैठक दिनांक 26/08/2022 में जिला भोपाल की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

".....चर्चा उपरांत समिति ने पाया कि भोपाल जिले की जिला सर्वेक्षण रिपोर्ट पर आमजन के सुझाव आमंत्रित कर इनका अनुमोदन जिले में गठित समिति द्वारा किया जा चुका है तथा खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला- भोपाल पत्र 2435 दिनांक 17/08/22 के माध्यम से मिनरल पोर्टेशियल की गणना में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोर्टेशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है मिनरल पोर्टेशियल की गणना दर्शाने वाली टेबल में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोर्टेशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है। समिति की यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई है) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये।

अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ भोपाल जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 590वीं बैठक दिनांक 26/08/2022 की अनुशंसा को मान्य करते हुए भोपाल जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट का अनुमोदन SEAC द्वारा सुझाई की उपरोक्त अनुशंसाओं के साथ किया जाता है। तदनुसार जिला कलेक्टर, भोपाल को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।

उपरोक्त निर्णयानुसार कृपया अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट 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।

(श्रीमन् शुक्ला)  
सदस्य सचिव

क्र. 1576 / SEIAA / 2022 भोपाल  
प्रतिलिपि :-

दिनांक 9/9/22

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल की ओर कृपया सूचनाार्थ ।





# राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, म.प्र.

(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)

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

वेबसाईट- <http://www.mpseiaa.nic.in>

दूरभाष नं. - 0755-2466970, 2466859

फैक्स नं. - 0755-2462136

No: / SEIAA/2022

Date:

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

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. की 745वी बैठक दिनांक 05.09.2022  
का कार्यवाही विवरण

अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ भोपाल जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 590वीं बैठक दिनांक 26/08/2022 की अनुशंसा को मान्य करते हुए भोपाल जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट का अनुमोदन SEAC द्वारा सुझाई की उपरोक्त अनुशंसाओं के साथ किया जाता है।

तदनुसार जिला कलेक्टर, भोपाल को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।

17. जिला सर्वेक्षण रिपोर्ट, जिला - सीधी (रेत खनिज)

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 745वीं बैठक दिनांक 05.09.2022 में निम्नानुसार निर्णय लिया गया :-


राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 590वीं बैठक दिनांक 26/08/2022 में जिला सीधी की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

.....समिति ने जिला सर्वेक्षण रिपोर्टों के प्रस्तुतीकरण एवं परीक्षण में पाया कि रेत की कई स्वीकृत खदानों में 60 प्रतिशत माइनेबल पोटेन्शियल तथा विगत 03 से 05 वर्षों के उत्पादन की मात्रा में 10 गुना से भी अधिक का अंतर है जिसके संदर्भ में उपस्थित खनन अधिकारियों द्वारा बताया गया कि विगत 02 से 03 वर्षों में कोविड महामारी, मांग कम होने इत्यादि के कारण कुछ खदानों से रेत की निकासी काफी कम हुई है जिस कारण यह अंतर परिलक्षित हो रहा है। समिति ने चर्चा उपरांत निर्णय लिया कि रेत खनन के ऐसे प्रकरण जहां 60 प्रतिशत माइनेबल पोटेन्शियल तथा विगत 03 से 05 वर्षों के उत्पादन की मात्रा में 05 गुना या उससे से भी अधिक का अंतर है ऐसे सभी प्रकरणों में पर्यावरणीय अभिसवीकृती हेतु प्रकरण ऑन लाईन प्रस्तुत करते समय उनकी अनुमोदित खनन योजना में उस स्थल की सारगर्भित रिप्लेनिशमेंट स्टडी प्रस्तुत की जाये तथा 60 प्रतिशत माइनेबल पोटेन्शियल के विरुद्ध 05 गुना या उससे से भी अधिक रेत की मात्रा के अंतर का औचित्य दर्शाया जाये ।

समिति को यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई हैं) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये ।

अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ सीधी जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये ।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 590वीं बैठक दिनांक 26/08/2022 की अनुशंसा को मान्य करते हुए सीधी जिले की

  
(श्रीमन् शुक्ला)  
सदस्य सचिव

  
(अरुण कुमार भट्ट)  
अध्यक्ष

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. की 745वीं बैठक दिनांक 05.09.2022  
का कार्यवाही विवरण

खदानों में 60 प्रतिशत माइनेबल पोटेंशियल तथा विगत 03 से 05 वर्षों के उत्पादन को मात्रा में 10 गुना से भी अधिक का अंतर है जिसके सद्वर्धन में उपस्थित खनन अधिकारियों द्वारा बताया गया कि विगत 02 से 03 वर्षों में कोविड महामारी, मांग कम होने इत्यादि के कारण कुछ खदानों से रेत की निकासी काफी कम हुई है जिस कारण यह अंतर परिलक्षित हो रहा है। समिति ने चर्चा उपरांत निर्णय लिया कि रेत खनन के ऐसे प्रकरण जहां 60 प्रतिशत माइनेबल पोटेंशियल तथा विगत 03 से 05 वर्षों के उत्पादन को मात्रा में 05 गुना या उससे से भी अधिक का अंतर है ऐसे सभी प्रकरणों में पर्यावरणीय अभिसूचीकृती हेतु प्रकरण ऑन लाईन प्रस्तुत करते समय उनकी अनुमोदित खनन योजना में उस स्थल की सारगर्भित रिप्लेनिशमेंट स्टडी प्रस्तुत की जाये तथा 60 प्रतिशत माइनेबल पोटेंशियल के विरुद्ध 05 गुना या उससे से भी अधिक रेत की मात्रा का अंतर का औचित्य दर्शाया जाये ।

समिति की यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई है) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये ।

अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ उमरिया जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये ।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 590वीं बैठक दिनांक 26/08/2022 की अनुशंसा को मान्य करते हुए उमरिया जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट का अनुमोदन SEAC द्वारा सुझाई की उपरोक्त अनुशंसाओं के साथ किया जाता है ।

तदनुसार जिला कलेक्टर, उमरिया को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये ।


18. जिला सर्वेक्षण रिपोर्ट, जिला - भोपाल (रेत खनिज)

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 745वीं बैठक दिनांक 05.09.2022 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 590वीं बैठक दिनांक 26/08/2022 में जिला भोपाल की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है ।

..... चर्चा उपरांत समिति ने पाया कि भोपाल जिले की जिला सर्वेक्षण रिपोर्ट पर आमजन के सुझाव आमंत्रित कर इनका अनुमोदन जिले में गठित समिति द्वारा किया जा चुका है तथा खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला- भोपाल पत्र 2435 दिनांक 17/08/22 के माध्यम से मिनरल पोटेंशियल की गणना में आवश्यक सशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है मिनरल पोटेंशियल की गणना दर्शाने वाली टेबल में आवश्यक सशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है। समिति की यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई है) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये ।

  
(श्रीमन् शुक्ला)  
सदस्य सचिव

  
(अरूण कुमार भट्ट)  
अध्यक्ष



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Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation ( Sand)
<p><b>Deliberation in the SEAC 587<sup>th</sup>, 589<sup>th</sup> Meeting dated 02.08.22, 17.08.2022.</b></p>	<p><b>राज्य स्तरीय मूल्यांकन समिति की 587वीं बैठक दिनांक 02.08.22</b></p> <p>कार्यालय कलेक्टर (खनिज शाखा) जिला भोपाल के पत्र क्रमांक 2329 दिनांक 27/07/22 के माध्यम से भोपाल जिले की जिला सर्वेक्षण रिपोर्ट-रेत खनिज हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण एवं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के परीक्षण हेतु दिनांक 28/07/22 को प्राप्त हुई है। उक्त जिला सर्वेक्षण रिपोर्ट, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के सदस्यों को दिनांक 28/07/22 (स्कैन्ड कापी) को प्रेषित की गई थी तथा उस पर चर्चा हेतु राज्य स्तरीय मूल्यांकन समिति की 587 वीं बैठक दिनांक 02/08/2022 को प्रस्तावित है।</p> <p>कार्यालय कलेक्टर (खनिज शाखा) जिला भोपाल म.प्र. के पत्र क्रमांक 2329 दिनांक 27/07/22 द्वारा प्रस्तुत जिला सर्वेक्षण रिपोर्ट-रेत खनिज में यह उल्लेख किया गया कि प्रारूप जिला सर्वेक्षण रिपोर्ट को जन-सामान्य के सुझाव हेतु जिले की वेबसाइट पर 21 दिन के लिए अपलोड कराया गया, जिस पर कोई आपत्ति /सुझाव प्राप्त नहीं हुए तथा जिला सर्वेक्षण रिपोर्ट तैयार किये जाने हेतु समिति की बैठक दिनांक 29/04/22 में रखा गया समिति ने जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली के अधिसूचना दिनांक 25/07/18 के अपेंडिक्स-10 में वर्णित फॉरमेट तथा स्ट्रैक्चर सस्टेनेबल सेंड माईनिंग गाइडलाइन, 2016, इनफोर्समेंट एण्ड मॉनिटरिंग गाइडलाइन फॉर सेंड माईनिंग, 2020 में दिए गये दिशा-निर्देशों को समाहित करते हुए प्रारूप जिला सर्वेक्षण रिपोर्ट तैयार किया जाना पाया गया।</p> <p>राज्य स्तरीय मूल्यांकन समिति की 587 वीं बैठक दिनांक 02/08/2022 को सीधी जिले की उक्त नवीन जिला सर्वेक्षण रिपोर्ट-2022 (रेत खनिज), पर चर्चा की गई। चर्चा के दौरान खनिज विभाग, सीधी की ओर से श्री कमल दिनकर, उप संचालक, खनिज कर्म, भोपाल ऑनलाईन उपस्थित हुए जिसमें पाया गया कि :-</p> <ol style="list-style-type: none"> <li>1. प्रस्तुत जिला सर्वेक्षण रिपोर्ट (रेत खनिज) में कुछ जानकारियाँ पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 द्वारा निर्धारित फॉर्मेट/ तालिका में नहीं दी गई है। जैसे टेबिल क्रमांक 16 व 17 (पेज क्रमांक-77 व 78) में खनिज रेत हेतु लीजवार 'माइनेवल मिनरल पोर्टेशियल (घनमीटर में) 60% टोटल मिनरल पोर्टेशियल) लीजवार लम्बाई एवं चौड़ाई के साथ नहीं दिया गया है जो दिया जाना आवश्यक है।</li> <li>2. प्रस्तुत जिला सर्वेक्षण रिपोर्ट में विगत 03 वर्षों में उत्खनित रेत की खदानवार मात्रा भी दर्शाई जाये, जिससे यह ज्ञात हो सके कि उस स्थल पर खदान का मिनरल पोर्टेशियल विगत 03 वर्षों में कितना रहा है।</li> <li>3. इसी प्रकार पेज क्रमांक-07 पर सिर्फ 02 रेत खदानों का विवरण दिया गया है तथा उसमें भी उनका क्षेत्रफल तथा लीज वैधता की अवधि का उल्लेख नहीं है जो अधिसूचना में निहित प्रपत्र अनुसार दी जाना चाहिए।</li> <li>4. इसी प्रकार जिले में स्वीकृत/प्रस्तावित खदानों को को-आर्डिनेट के अनुसार डिजिटाइज मैप (आर्क व्यू / गूगल अर्थ कम्पेरेवल - सी.डी में) भी संलग्न किया जाये ताकि पर्यावरण अभिस्वीकृति के समय खदानों की सही स्थिति ज्ञात करने में तथा 500 मीटर के अंदर स्थित अन्य स्वीकृत खदानों की जानकारी प्राप्त करने में सुविधा हो।</li> <li>5. समिति ने संबंधित जिलों के खनिज अधिकारियों को निर्देशित करती है कि इस बात का भी ध्यान रखा जाये कि नदियों में किसी स्थान पर मछलियों/कछुआ /घड़ियाल/मगरमच्छ आदि जलघरों का ब्रीडिंग ग्राउण्ड तो नहीं है यदि ऐसा कोई स्थानीय संवेदनशील क्षेत्र दृष्टिगत होता है तो खनन क्षेत्र की सीमा को 60 प्रतिशत से कम कर 50 प्रतिशत तक भी सीमित किया जा सकता है।</li> </ol> <p><i>चर्चा उपरांत समिति की यह अनुशंसा है कि जिला सर्वेक्षण रिपोर्ट, जिला भोपाल को समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के अनुसार पुनः प्रस्तुत की जाये। ऑन लाईन उपस्थित श्री कमल दिनकर, उप संचालक, खनिज कर्म, भोपाल को भी उपरोक्त संदर्भ में</i></p>



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	<p>समझाईश दी गई तथा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के निर्धारित फॉर्मट अनुसार जिला सर्वेक्षण रिपोर्ट (रेत) को अद्यतन कर ले । तदनुसार प्रकरण आगामी कार्यवाही राज्य स्तरीय पर्यावरण सन्शोधन निर्धारण प्राधिकरण की ओर अग्रिम कार्यवाही हेतु प्रेषित है ।</p> <p><b>राज्य स्तरीय मूल्यांकन समिति की 589 वीं बैठक दिनांक 17/08/22</b></p> <p>खनिज अधिकारियों से चर्चा के दौरान जिला रायसेन, भोपाल एवं सीधी के खनिज अधिकारी (जिनकी जिला सर्वेक्षण रिपोर्ट प्रस्तुतीकरण में सूचीबद्ध नहीं थी) भी चर्चा में आमंत्रित किये गये थे ताकि लिये गये निर्णयों के परिप्रेक्ष्य में वे अपनी जिला सर्वेक्षण रिपोर्ट अद्यतन कर सकें । इस दौरान खनिज अधिकारियों द्वारा बैठक के दौरान उठाये गये प्रश्नों पर भी चर्चा की गयी एवं उनका शंका समाधान भी किया गया । जिला सर्वेक्षण रिपोर्ट के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एवं खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, खनिज अधिकारी को भी समिति ने निर्देशित किया कि वे अपने स्तर पर भी जिले के सभी खनिज अधिकारियों को नवीन जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की सरटैनेबल सेंड माइनिंग मैनेजमेंट गाइडलाइन, 2016, इफोर्समेंट मॉनिटरिंग फॉर सेंड माइनिंग गाइडलाइन, 2020 तथा अधिसूचना दिनांक 25/07/2018 में निर्धारित प्रपत्र अनुसार प्रस्तुत करें ताकि बार-बार संशोधनों की आवश्यकता न पड़े ।</p>
<b>Revised DSR received from District Collectorate ( Mining)</b>	Received soft copy vide District Collectorate ( Mining) Office, Bhopal , No. 2435 dated 17.08.2022
<b>Hard Copy Soft Copy or both</b>	Hard copy & Soft copy
<b>SEAC meeting dated 26/08/22</b>	<ul style="list-style-type: none"> <li>• प्रस्तुत जिला सर्वेक्षण रिपोर्ट, भोपाल के तालिका 16, पेज न0. 88 में दर्शित तालिका में मिनरल पोर्टेशियल की गणना दर्शाने वाली टेबल में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोर्टेशियल (रेत खनन हेतु) प्रस्तुत कर दी गई है</li> <li>• प्रस्तुत जिला सर्वेक्षण रिपोर्ट के टेबिल में विगत 03 वर्षों में उत्खनित रेत की खदानवार मात्रा भी दर्शाई गयी है ।</li> <li>• मिनरल पोर्टेशियल की गणना दर्शाने वाली तालिका तालिका 16, पेज न0. 88 में आवश्यक रेत की 60 प्रतिशत माइनेबल पोर्टेशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है ।</li> </ul>

आज दिनांक 26/8/22 को जिला सर्वेक्षण रिपोर्टों के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एवं खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्री के.पी. दिनकर खनिज अधिकारी के साथ उपस्थित रहे ।

चर्चा उपरांत समिति ने पाया कि भोपाल जिले की जिला सर्वेक्षण रिपोर्ट पर आमजन के सुझाव आमंत्रित कर इनका अनुमोदन जिले में गठित समिति द्वारा किया जा चुका है तथा खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला— भोपाल पत्र 2435 दिनांक 17/08/22 के माध्यम से मिनरल पोर्टेशियल की गणना में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोर्टेशियल

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(रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है। मिनरल पोटेन्शियल की गणना दर्शाने वाली टेबल में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेन्शियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है। समिति की यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई है) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये।

अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ भोपाल जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

**16.जिला सर्वेक्षण रिपोर्ट – सीधी (रेत खनिज)**

Mineral	Sand
Earlier DSR Discussed	SEAC 587 <sup>th</sup> , 589 <sup>th</sup> Meeting dated 02.08.22, 17.08.2022
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation ( Sand)
Deliberation in the SEAC 587 <sup>th</sup> , 589 <sup>th</sup> Meeting dated 02.08.22, 17.08.2022.	<p>राज्य स्तरीय मूल्यांकन समिति की 587वीं बैठक दिनांक 02.08.22</p> <p>जिला सर्वेक्षण रिपोर्ट, जिला – सीधी, म.प्र.– (रेत खनिज)</p> <p>कार्यालय कलेक्टर (खनिज शाखा) जिला सीधी के पत्र क्रमांक 220 दिनांक 14/07/22 के माध्यम से सीधी जिले की जिला सर्वेक्षण रिपोर्ट रेत एवं अन्य गौण खनिज हेतु अलग-अलग 02 वॉल्यूम में राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण एवं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के परीक्षण हेतु ई-मेल के माध्यम से (सॉफ्टकापी) भेजी गई है जो राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति को दिनांक 22/07/22 को प्राप्त हुई है। उक्त जिला सर्वेक्षण रिपोर्ट, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के सदस्यों को दिनांक 24/07/22 (सॉफ्टकापी) को प्रेषित की गई थी तथा उस पर चर्चा हेतु राज्य स्तरीय मूल्यांकन समिति की 587 वीं बैठक दिनांक 02/08/2022 को प्रस्तावित है।</p> <p>कार्यालय कलेक्टर (खनिज शाखा) जिला सीधी म.प्र. के पत्र क्रमांक 220 दिनांक 14/07/2022 द्वारा प्रस्तुत जिला सर्वेक्षण रिपोर्ट में यह उल्लेख किया गया कि इस रिपोर्ट का अनुमोदन जिला स्तर पर गठित समिति द्वारा दिनांक 30/06/22 को किया गया तथा अनुमोदन उपरांत जिले की वेबसाइट पर दिनांक 01/06/22 को अपलोड किया गया, जिसमें कोई आपत्ति/सुझाव प्राप्त नहीं हुए।</p> <p>राज्य स्तरीय मूल्यांकन समिति की 587 वीं बैठक दिनांक 02/08/2022 को सीधी जिले की उक्त नवीन जिला सर्वेक्षण रिपोर्ट-2022 (रेत खनिज), पर चर्चा की गई। चर्चा के दौरान खनिज विभाग, सीधी की ओर से सुश्री दीपमाला तिवारी, खनिज अधिकारी ऑनलाईन उपस्थित हुए जिसमें पाया गया कि :-</p>