



Seiaa mp <mpseiaa@gmail.com>

Approved DSR of Chhatarpur (Revised)

1 message

Secretary <seacofmadhyapradesh@rediffmail.com>

To: mpseiaa <mpseiaa@gmail.com>

Fri, Aug 5, 2022 at 4:20 PM

Res. Sir

Please find herewith approved DSR of Chhatarpur (Revised) which was recommended in the SEAC 586 the meeting .

Regards,

From SEAC Secretariat

3 attachments

 **48_kmls_chhatarpur.zip**
83K

 **FINAL_DSR_SAND__1_com.pdf**
9928K

 **KHODU_BHARU_MINE_LIST_FOR_DSR.pdf**
178K

कार्यालय कलेक्टर (खनिज शाखा) जिला छतरपुर (म0प्र0)

modgma@mp.gov.in

क्र. 1037/खनिज/2022
प्रति,

छतरपुर दिनांक 25/4/2022

सदस्य सचिव

SEIA/VSEAC

ई-5, पर्यावरण परिसर, अशेरा कॉलोनी

भोपाल (म0प्र0)

विषय :- जिला सर्वे रिपोर्ट के संबंध में प्राप्त सुझावों का निराकरण करने बाबत।

-00-

उपरोक्त विषयान्तर्गत लेख है, कि छतरपुर जिले की तैयार की गई जिला सर्वे रिपोर्ट 30 दिन के लिये जिले के पोर्टल Chhatarpur.nic.in पर दावा/आपत्ति एवं सुझाव हेतु दिनांक 12.03.2022 को रखी गई। 30 दिन के भीतर तीन आवेदन प्राप्त हुये जिनका नियमानुसार निराकरण कराया गया।

जिला छतरपुर में गठित समिति द्वारा प्राप्त सुझावों के निराकरण उपरांत समिति द्वारा प्राप्त अनुमोदन अनुसार जिला सर्वे रिपोर्ट अग्रिम आवश्यक कार्यवाही हेतु साबर सम्प्रेषित है।

संलग्न :- जिला सर्वे रिपोर्ट


कलेक्टर
जिला छतरपुर (म0प्र0)

कार्यालय कलेक्टर (खनिज शाखा) जिला छतरपुर (म०प्र०)

modgmcha@mp.gov.in

क्र. 1037 / खनिज / 2022
प्रति,

छतरपुर दिनांक 25/4/2022

सदस्य सचिव

SEIA/WSEAC

ई-5, पर्यावरण परिसर, अरेरा कॉलोनी

भोपाल (म०प्र०)


विषय :- जिला सर्वे रिपोर्ट के संबंध में प्राप्त सुझावों का निराकरण करने बाबत।

-00-

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संलग्न :- जिला सर्वे रिपोर्ट

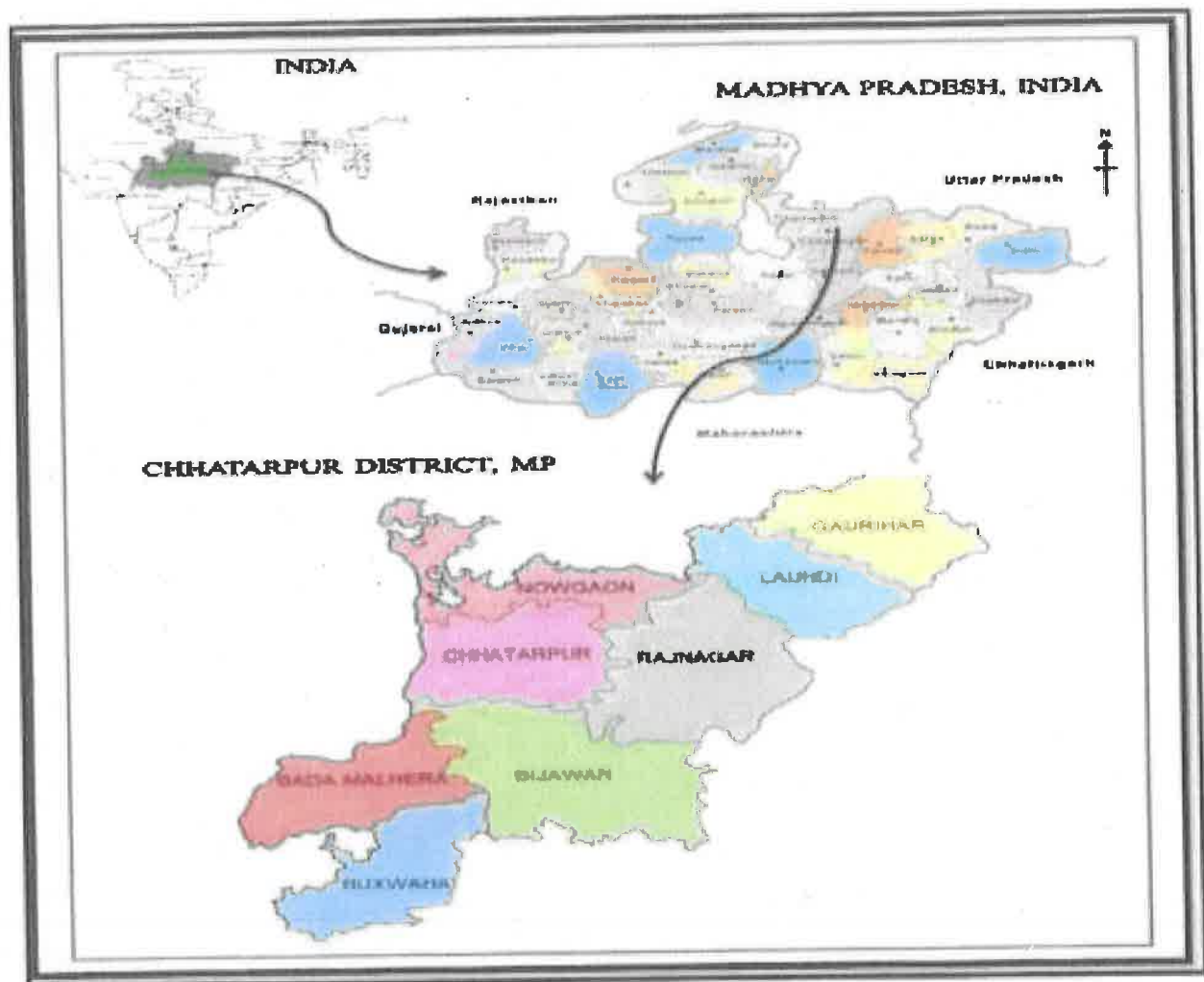

कलेक्टर
जिला छतरपुर (म०प्र०)

DSR: DISTRICT SURVEY REPORT

FOR RIVER SAND MINING

CHHATARPUR DISTRICT

STATE – MADHYA PRADESH




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

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

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District Survey Report: Chhatarpur

District Survey Report: Chhatarpur

1 Introduction


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

The process of making a DSR includes:

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

For the first time, the Ministry of Environment, Forests and Climate Change (MoEF&CC) 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 sand.
- However, there were a large number of illegal mining cases in the country and in some cases, many of the officers lost their lives while executing their duties to curb illegal mining.


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(EPCO)
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E-3, Arera Colony, Bhopal (M.P.)

District Survey Report: Chhatarpur

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

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 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.

State Secretariat, Government of India
Ministry of Environment, Forest and Climate Change
New Delhi
Permitting Officer
District Survey Report (DSR)

District Survey Report: Chhatarpur

- 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 conducted by state and district administrations are often not comprehensive enough, allowing space for illegal mining.

1.1 Surrounding Districts

Chhatarpur district is located on the central portion on the plateau of Bundelkhand in M.P. the district is spread over an area of 8616.82 sq. km and is located at the northern boundary of the state, lying between north latitudes 24° 06' and 25° 20' and east longitude 79° 59' and 80° 26' falls under the survey of India toposheet No. 54O, 54P, 63D. The district is bounded by Mohaba district U.P in the north, Panna district, in the east Tikamgarh district in the west and Sagar & Damoh district in the south.

History

Chhatarpur district is one of the 52 districts of Madhya Pradesh state of India. The headquarters of the district administration is located in the city of Chhatarpur, situated on the west side of Bhopal, Madhya Pradesh, at a distance of 336 kms. This district has 6 sections (sub divisions), 11 tehsils, 8 district panchayats, 3 municipalities and 12 municipal councils.

Chhatarpur is situated in the north eastern border of the state of Madhya Pradesh. It came into existence in 1956.

Chhatarpur is located within 24.06' to 25.20' North latitude and 78.59' to 80.26' East longitude. It comprises of an area of 8687 sq km. According to 1991 census, the total population of Chhatarpur is 11,58,076 out of which 6,23,878 are males and the number of females is 5,34,198.

Cultivation of crops like paddy, wheat and jowar is practiced in the district of Chhatarpur. Good quality timber is also produced here.

The important tourist spots are:

- Chamnat Yogini
- Kandariya Mahadeo
- Chitragupta Temple

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Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)


District Survey Report: Chhatarpur

- Lakshmana Temple
- Duladeo Temple
- Chaturbhuj Temple

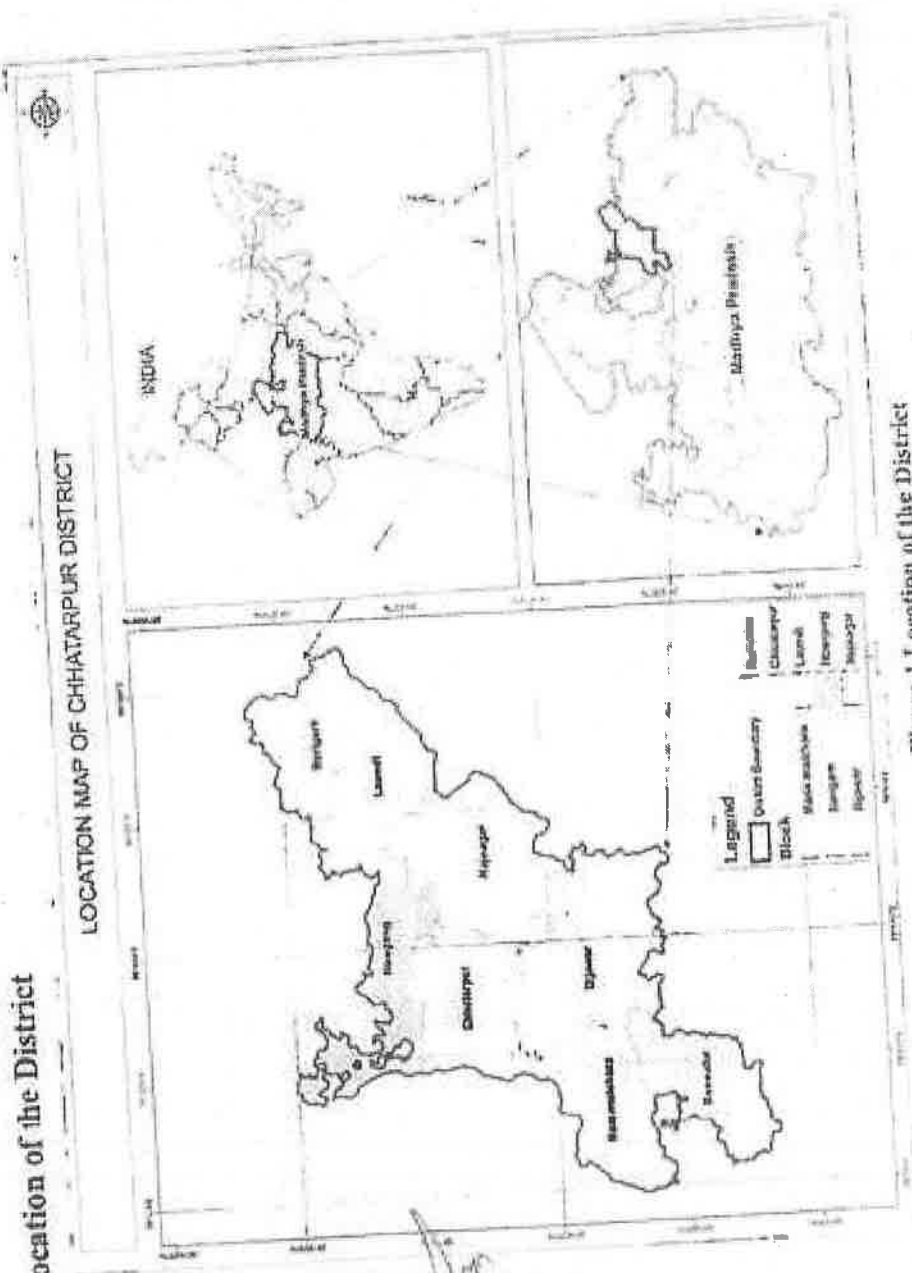
1.2 General Features

Table 1 Administrative Setup of the District

S. No.	SUB-DIVISION	BLOCK
1.	Chhatarpur	Bada Mulhera
2.		Bijawar
3.		Buxwaha
4.		Chandia
5.		Chhatarpur
6.		Gaurihar
7.		Ghuwara
8.		Loundi
9.		Nowgaon
10.		Rajnagar
11.		Rajnagar
	Total	11


State Level Environment Impact
Assessment Agency, M.P.
(SEIAA)
Panchwati Bazar
C-3, Arun Library, Bhopal (M.P.)

District Survey Report: Chhatarpur



1.3 Location of the District

Figure 1 Location of the District

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Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

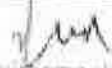
District Survey Report: Chhatarpur

2 Overview of Mining Activity

The mineral found in Chhatarpur include Granite, Gitti, Flagstone and stone dust. Other minerals found in the district are murrum, metal stone, and sand. Different litho units are mined for granite which includes Bundelkhand granite gneiss, metasedimentary, meta basic bands, and enclaves in the Bundelkhand granite.

Table 2 Mineral Production in the District 2020-21

Sr. No.	Mineral	Production
Major Mineral		
1.	Iron Ore	8315.55,00 Tons
2.	Rock Phosphate	10661.25 Tons
Minor Mineral		
3.	Boulder	11500.00 M3
4.	Gitti	1237999.96 M3
5.	Granite	36149.48 M3
6.	Sand	481070.12 M3
7.	Quartz	1237.78 Tons
8.	Quartzite for building material	4525.24 M3
9.	Diaspore	9294.21 Tons
10.	Pyrophyllite	131273.78 Tons


State Level Environment Impact
Assessment Agency, M.P.
(E-20)
Regional Director
E-5, State Council Hospital (M.P.)

(3)

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

क्र.मां.क.	नदी	Lease Detail				रफ़्तबा हेक्टेयर मे /स्वीकृत मात्रा (घन मीटर)	<u>Geo-Coordinates of the Lease</u>		
		जिला	सहस्रील/ ग्राम	लीज अवधि	खसरा नं०		BP. No.	LATITUDE	LONGITUDE
1	कैल	छतरपुर	गोरिहार/ सामपुर	30/8/ 2023	306/1	3.10/10000	1	25° 14'49.38"N	80°07'06.94"E
							2	25° 14'51.43"N	80°07'06.64"E
							3	25° 14'52.03"N	80°07'14.18"E
							4	25° 14'50.38"N	80°07'15.97"E
							5	25° 14'48.15"N	80°07'18.99"E
							6	25° 14'48.99"N	80°07'23.24"E
							7	25° 14'45.49"N	80°07'19.98"E
							8	25° 14'48.36"N	80°07'15.95"E
2	केन	छतरपुर	गोरिहार/ पड़वार-1	30/08/ 2023	1540/ 1	10.0/25000	1	25°20'55.27"N	80°18'30.31"E
							2	25°20'55.42"N	80°18'34.75"E
							3	25°20'52.25"N	80°18'35.80"E
							4	25°20'46.70"N	80°18'37.40"E
							5	25°20'40.90"N	80°18'40.20"E
							6	25°20'36.09"N	80°18'43.23"E
							7	25°20'32.17"N	80°18'46.39"E
							8	25°20'30.00"N	80°18'42.90"E
							9	25°20'33.90"N	80°18'39.20"E
							10	25°20'36.30"N	80°18'37.10"E
							11	25°20'39.28"N	80°18'35.90"E
							12	25°20'44.14"N	80°18'34.13"E
							13	25°20'49.41"N	80°18'32.21"E
3	केन	छतरपुर	गोरिहार/ भरईभाट- 1	30/08/ 2023	396/2	14.0/150000	A	25°18'59.20"N	80°19'09.20"E
							B	25°19'22.61"N	80°19'06.79"E
							C	25°19'22.93"N	80°19'10.56"E
							D	25°19'33.50"N	80°19'11.80"E
							E	25°19'34.30"N	80°19'14.70"E

Link
 State Level Environment Impact
 Assessment Authority, M.P.
 (E-5)
 Park Road, Parisar
 E-5, Arslanpally, Bhopal (M.P.)

							F	25°18'59.50"N	80°19'12.80"E
4	केन	छत्तरपुर	गौरिहार/ बकसा	30/06/ 2023	609	3.990/15000	BP. No.	LATITUDE	LONGITUDE
							1	25°24'17.53"N	80°17'53.30"E
							2	25°24'24.13"N	80°17'53.94"E
							3	25°24'17.67"N	80°18'01.96"E
							4	25°24'13.84"N	80°17'56.79"E
5	केन	छत्तरपुर	गौरिहार/ रेवना	30/06/ 2023	1298/ 1	2.150/8,000	BP. No.	LATITUDE	LONGITUDE
							A	25° 16'28.56"N	80°09'45.67"E
							B	25° 16'28.90"N	80°09'47.30"E
							C	25° 16'33.02"N	80°09'48.42"E
							D	25° 16'34.31"N	80°09'48.65"E
							E	25° 16'35.92"N	80°09'49.46"E
							F	25° 16'38.87"N	80°09'51.16"E
							G	25° 16'40.18"N	80°09'49.14"E
							H	25° 16'39.50"N	80°09'48.63"E
							I	25° 16'38.27"N	80°09'47.51"E
							J	25° 16'37.37"N	80°09'47.07"E
							K	25° 16'35.20"N	80°09'46.64"E
L	25° 16'34.14"N	80°09'46.70"E							
6	केन	छत्तरपुर	गौरिहार/ पेई-1	30/06/ 2023	613/1	5.000/60,000	BP. No.	LATITUDE	LONGITUDE
							A	25°24'29.29"N	80°17'36.74"E
							B	25°24'33.03"N	80°17'39.88"E
							C	25°24'25.40"N	80°17'50.60"E
D	25°24'22.00"N	80°17'48.10"E							
7	केन	छत्तरपुर	गौरिहार/ पडवार-2	30/06/ 2023	1540/ 1	6.00/20,000	BP. No.	LATITUDE	LONGITUDE
							1	25°21'24.00"N	80°18'28.97"E
							2	25°21'38.36"N	80°18'35.99"E
							3	25°21'38.50"N	80°18'36.82"E
							4	25°21'40.08"N	80°18'37.22"E
							5	25°21'36.36"N	80°18'40.39"E
							6	25°21'27.32"N	80°18'34.33"E
7	25°21'22.57"N	80°18'32.32"E							
8	केन	छत्तरपुर	गौरिहार/ मवईगाट-	30/06/ 2023	39	7.000/50,000	BP. No.	LATITUDE	LONGITUDE


 State Level Environment Impact
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 (EPA)
 Paryavaran Parisar
 E-5, Arera Colony, Bhopal (M.P.)

								A	25°14'52.75"N	80°21'50.65"E
								B	25°14'51.15"N	80°21'55.41"E
								C	25°14'59.29"N	80°22'00.30"E
								D	25°15'01.00"N	80°21'55.83"E
14	केन	छत्तरपुर	गोविंदार/ नारीखेड़ा	30/06/ 2023	269/2 31	10.0/70,000		BP. No.	LATITUDE	LONGITUDE
								1	25°14'36.79"N	80°23'36.36"E
								2	25°14'40.28"N	80°23'40.08"E
								3	25°14'44.13"N	80°23'48.44"E
								4	25°14'43.72"N	80°23'54.44"E
								5	25°14'41.50"N	80°23'59.60"E
								6	25°14'37.29"N	80°23'57.37"E
								7	25°14'38.30"N	80°23'53.49"E
								8	25°14'38.19"N	80°23'48.58"E
								9	25°14'36.04"N	80°23'41.46"E
								10	25°14'34.43"N	80°23'38.87"E
15	केन	छत्तरपुर	गोविंदार/ महनाया	30/06/ 2023	1163	4.0/20,000		BP. No..	Latitude	Longitude
								1	25° 8'45.95"N	80°21'43.22"E
								2	25° 8'47.55"N	80°21'45.00"E
								3	25° 8'48.06"N	80°21'47.27"E
								4	25° 8'47.30"N	80°21'47.96"E
								5	25° 8'47.07"N	80°21'47.53"E
								6	25° 8'46.73"N	80°21'47.36"E
								7	25° 8'45.74"N	80°21'47.55"E
								8	25° 8'46.16"N	80°21'48.80"E
								9	25° 8'47.65"N	80°21'49.13"E
								10	25° 8'48.11"N	80°21'48.52"E
								11	25° 8'48.66"N	80°21'48.30"E
								12	25° 8'48.61"N	80°21'49.72"E
								13	25° 8'43.17"N	80°21'52.55"E
								14	25° 8'42.16"N	80°21'50.30"E
								15	25° 8'39.58"N	80°21'46.64"E
16	केन	छत्तरपुर	गोविंदार/ अजीतपुर	30/06/ 2023	656	4.0/22,000		BP. No.	LATITUDE	LONGITUDE
								1	25° 8'57.94"N	80°22'35.91"E
								2	25° 8'57.99"N	80°22'44.05"E
								3	25° 8'52.48"N	80°22'42.08"E
								4	25° 8'51.86"N	80°22'34.05"E

Handwritten signature


State Level Environmental Impact
Assessment Authority, M.P.
(EPA)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

17	जेन	छतरपुर	गोरिहार/ बारबंद-4	30/06/ 2023	472/2	10.0/80,000	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25° 9'51.72"N</td> <td>80°24'53.55"E</td> </tr> <tr> <td>2</td> <td>25° 9'55.40"N</td> <td>80°25'05.45"E</td> </tr> <tr> <td>3</td> <td>25° 9'59.39"N</td> <td>80°25'15.66"E</td> </tr> <tr> <td>4</td> <td>25° 9'56.52"N</td> <td>80°25'19.56"E</td> </tr> <tr> <td>5</td> <td>25° 9'50.01"N</td> <td>80°25'05.70"E</td> </tr> <tr> <td>6</td> <td>25° 9'47.65"N</td> <td>80°24'56.64"E</td> </tr> </tbody> </table>	BP. No.	LATITUDE	LONGITUDE	1	25° 9'51.72"N	80°24'53.55"E	2	25° 9'55.40"N	80°25'05.45"E	3	25° 9'59.39"N	80°25'15.66"E	4	25° 9'56.52"N	80°25'19.56"E	5	25° 9'50.01"N	80°25'05.70"E	6	25° 9'47.65"N	80°24'56.64"E						
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6	25° 9'47.65"N	80°24'56.64"E																																
18	जेन	छतरपुर	गोरिहार/ गोयरा-2	30/06/ 2023	2531/ 13	10.0/80,000	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°14'50.88"N</td> <td>80°21'56.90"E</td> </tr> <tr> <td>2</td> <td>25°14'58.84"N</td> <td>80°22'00.86"E</td> </tr> <tr> <td>3</td> <td>25°14'55.27"N</td> <td>80°22'06.95"E</td> </tr> <tr> <td>4</td> <td>25°14'50.00"N</td> <td>80°22'13.49"E</td> </tr> <tr> <td>5</td> <td>25°14'44.43"N</td> <td>80°22'09.85"E</td> </tr> <tr> <td>6</td> <td>25°14'47.74"N</td> <td>80°22'03.70"E</td> </tr> <tr> <td>7</td> <td>25°14'50.31"N</td> <td>80°21'59.82"E</td> </tr> </tbody> </table>	BP. No.	LATITUDE	LONGITUDE	1	25°14'50.88"N	80°21'56.90"E	2	25°14'58.84"N	80°22'00.86"E	3	25°14'55.27"N	80°22'06.95"E	4	25°14'50.00"N	80°22'13.49"E	5	25°14'44.43"N	80°22'09.85"E	6	25°14'47.74"N	80°22'03.70"E	7	25°14'50.31"N	80°21'59.82"E			
BP. No.	LATITUDE	LONGITUDE																																
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7	25°14'50.31"N	80°21'59.82"E																																
19	जेन	छतरपुर	गोरिहार/ फततोपुर	30/06/ 2023	2/2	2.0/40,000	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°16'07.70"N</td> <td>80°21'19.53"E</td> </tr> <tr> <td>2</td> <td>25°16'07.73"N</td> <td>80°21'22.50"E</td> </tr> <tr> <td>3</td> <td>25°16'00.73"N</td> <td>80°21'23.09"E</td> </tr> <tr> <td>4</td> <td>25°16'00.71"N</td> <td>80°21'19.72"E</td> </tr> </tbody> </table>	BP. No.	LATITUDE	LONGITUDE	1	25°16'07.70"N	80°21'19.53"E	2	25°16'07.73"N	80°21'22.50"E	3	25°16'00.73"N	80°21'23.09"E	4	25°16'00.71"N	80°21'19.72"E												
BP. No.	LATITUDE	LONGITUDE																																
1	25°16'07.70"N	80°21'19.53"E																																
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3	25°16'00.73"N	80°21'23.09"E																																
4	25°16'00.71"N	80°21'19.72"E																																
20	जेन	छतरपुर	गोरिहार/ धीरारा रेत खदान	30/06/ 2023	332	5.20/70,000	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°07'49.88"N</td> <td>80°21'07.69"E</td> </tr> <tr> <td>2</td> <td>25°07'48.83"N</td> <td>80°21'14.91"E</td> </tr> <tr> <td>3</td> <td>25°07'44.88"N</td> <td>80°21'13.99"E</td> </tr> <tr> <td>4</td> <td>25°07'40.80"N</td> <td>80°21'13.82"E</td> </tr> <tr> <td>5</td> <td>25°07'37.62"N</td> <td>80°21'12.74"E</td> </tr> <tr> <td>6</td> <td>25°07'37.87"N</td> <td>80°21'09.32"E</td> </tr> <tr> <td>7</td> <td>25°07'40.86"N</td> <td>80°21'09.52"E</td> </tr> <tr> <td>8</td> <td>25°07'47.04"N</td> <td>80°21'07.96"E</td> </tr> </tbody> </table>	BP. No.	LATITUDE	LONGITUDE	1	25°07'49.88"N	80°21'07.69"E	2	25°07'48.83"N	80°21'14.91"E	3	25°07'44.88"N	80°21'13.99"E	4	25°07'40.80"N	80°21'13.82"E	5	25°07'37.62"N	80°21'12.74"E	6	25°07'37.87"N	80°21'09.32"E	7	25°07'40.86"N	80°21'09.52"E	8	25°07'47.04"N	80°21'07.96"E
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8	25°07'47.04"N	80°21'07.96"E																																
21	जेन	छतरपुर	गोरिहार/ नेहरा	30/06/ 2023	697/1	14.0/1,00,000	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°04'50.44"N</td> <td>80°19'04.71"E</td> </tr> <tr> <td>2</td> <td>25°04'48.90"N</td> <td>80°19'08.13"E</td> </tr> <tr> <td>3</td> <td>25°04'35.69"N</td> <td>80°19'01.54"E</td> </tr> </tbody> </table>	BP. No.	LATITUDE	LONGITUDE	1	25°04'50.44"N	80°19'04.71"E	2	25°04'48.90"N	80°19'08.13"E	3	25°04'35.69"N	80°19'01.54"E															
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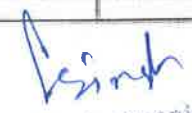
							4	25°04'14.36"N	80°18'37.30"E
							5	25°04'13.02"N	80°18'33.96"E
							6	25°04'16.26"N	80°18'30.58"E
							7	25°04'16.49"N	80°18'32.87"E
							8	25°04'19.17"N	80°18'37.51"E
							9	25°04'24.22"N	80°18'46.63"E
							10	25°04'25.32"N	80°18'47.30"E
							11	25°04'34.59"N	80°18'56.92"E
							12	25°04'42.87"N	80°19'01.66"E
22	केन	छतरपुर	गौरिहार / बारबंद नं० 1	30/08/ 2023	472/2	12.0/50,000	BP. No.	LATITUDE	LONGITUDE
							1	25°10'01.61"N	80°25'18.78"E
							2	25°10'08.93"N	80°25'28.68"E
							3	25°10'19.65"N	80°25'37.35"E
							4	25°10'16.46"N	80°25'42.50"E
							5	25°10'09.21"N	80°25'36.51"E
							6	25° 9'58.59"N	80°25'21.97"E
23	केन	छतरपुर	गौरिहार / बारबंद नं० 2	30/06/ 2023	472/2	12.0/50,000	BP. No.	LATITUDE	LONGITUDE
							1	25°10'27.54"N	80°25'41.44"E
							2	25°10'32.83"N	80°25'43.03"E
							3	25°10'40.51"N	80°25'43.36"E
							4	25°10'51.65"N	80°25'40.55"E
							5	25°10'52.79"N	80°25'45.44"E
							6	25°10'48.50"N	80°25'46.69"E
							7	25°10'42.46"N	80°25'48.93"E
							8	25°10'36.35"N	80°25'49.25"E
							9	25°10'29.02"N	80°25'47.61"E
							10	25°10'26.12"N	80°25'46.94"E
24	केन	छतरपुर	बदला / खसगणया	30/08/ 2023	405	12.60/50,000	BP. No.	LATITUDE	LONGITUDE
							A	25° 0'2.13"N	80°13'44.11"E
							B	25° 0'5.06"N	80°13'40.76"E
							C	25° 0'27.21"N	80°14'2.00"E
							D	25° 0'23.96"N	80°14'5.81"E
25	केन	छतरपुर	बदला / गोशाली	30/06/ 2023	730	12.30/55,000	BP. No.	LATITUDE	LONGITUDE
							A	24°59'32.55"N	80°13'12.91"E
							B	24°59'34.00"N	80°13'09.40"E
							C	24°59'39.53"N	80°13'15.95"E
							D	24°59'59.28"N	80°13'34.81"E
							E	24°59'53.78"N	80°13'36.45"E


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							F	24°59'45.78"N	80°13'28.64"E
26	केन	छासपुर	घंटा/	30/06/	277/1	12.50/65,000	BP. No.	LATITUDE	LONGITUDE
							1	25°03'18.00"N	80°17'13.30"E
							2	25°03'15.40"N	80°17'13.60"E
							3	25°03'12.00"N	80°17'13.50"E
							4	25°03'08.70"N	80°17'13.80"E
							5	25°03'05.40"N	80°17'14.00"E
							6	25°03'02.40"N	80°17'14.10"E
							7	25°02'59.10"N	80°17'14.60"E
							8	25°02'56.80"N	80°17'14.70"E
							9	25°02'56.66"N	80°17'09.50"E
							10	25°03'00.05"N	80°17'08.88"E
							11	25°03'05.26"N	80°17'08.01"E
							12	25°03'10.02"N	80°17'07.24"E
							13	25°03'13.94"N	80°17'07.04"E
14	25°03'20.11"N	80°17'07.13"E							
27	केन	छासपुर	घंटा/	30/06/	854	11.50/75,000	BP. No.	LATITUDE	LONGITUDE
							1	25°02'18.00"N	80°17'03.10"E
							2	25°02'23.01"N	80°17'05.04"E
							3	25°02'26.56"N	80°17'06.26"E
							4	25°02'31.72"N	80°17'08.71"E
							5	25°02'39.46"N	80°17'09.48"E
							6	25°02'48.01"N	80°17'10.37"E
							7	25°02'47.90"N	80°17'14.50"E
							8	25°02'43.40"N	80°17'13.50"E
							9	25°02'37.90"N	80°17'12.90"E
							10	25°02'31.70"N	80°17'12.00"E
							11	25°02'26.00"N	80°17'11.60"E
							12	25°02'19.30"N	80°17'09.00"E
13	25°02'16.20"N	80°17'07.50"E							


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28	उत्तमिल	छत्तरपुर	चंदला / सूरजपुर	30/08/ 2023	818	4.00/15,000	BP. No.	LATITUDE	LONGITUDE
							1	24°58'12.41"N	80°02'56.91"E
							2	24°58'11.75"N	80°02'58.41"E
							3	24°58'11.34"N	80°03'00.67"E
							4	24°58'10.78"N	80°03'03.26"E
							5	24°58'10.45"N	80°03'06.15"E
							6	24°58'10.44"N	80°03'10.41"E
							7	24°58'10.04"N	80°03'13.65"E
							8	24°58'09.54"N	80°03'16.88"E
							9	24°58'07.99"N	80°03'19.86"E
							10	24°58'02.18"N	80°03'26.31"E
							11	24°58'00.50"N	80°03'25.18"E
							12	24°58'03.69"N	80°03'22.33"E
							13	24°58'05.43"N	80°03'20.23"E
							14	24°58'08.53"N	80°03'14.12"E
							15	24°58'09.05"N	80°03'11.19"E
							16	24°58'09.27"N	80°03'08.19"E
							17	24°58'09.22"N	80°03'05.93"E
							18	24°58'09.63"N	80°03'02.53"E
19	24°58'11.09"N	80°02'56.38"E							
29	केन	छत्तरपुर	चंदला / डिहौठा	30/08/ 2023	495/2	4.000/20,000	BP. No.	LATITUDE	LONGITUDE
							1	25° 1'36.24"N	80°15'35.06"E
							2	25° 1'37.13"N	80°15'43.55"E
							3	25° 1'37.03"N	80°15'45.88"E
							4	25° 1'33.39"N	80°15'45.83"E
5	25° 1'31.59"N	80°15'35.10"E							
30	केन	छत्तरपुर	चंदला / सककर	30/08/ 2023	1400	4.000/35,000	BP. No.	LATITUDE	LONGITUDE
							1	24°58'05.88"N	80°10'47.37"E
							2	24°58'10.65"N	80°10'58.60"E
							3	24°58'07.34"N	80°11'00.26"E
4	24°58'02.43"N	80°10'49.06"E							
31	केन	छत्तरपुर	चंदला / बघारी नं० 2	30/08/ 2023	854	8.000/8,000	BP. No.	LATITUDE	LONGITUDE
							1	25°01'36.10"N	80°15'46.10"E
2	25°01'35.46"N	80°15'56.14"E							



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							3	25°01'33.80"N	80°16'01.30"E
							4	25°01'30.95"N	80°16'06.32"E
							5	25°01'29.47"N	80°16'10.95"E
							6	25°01'27.11"N	80°16'10.32"E
							7	25°01'27.34"N	80°16'07.59"E
							8	25°01'31.80"N	80°15'55.58"E
							9	25°01'32.28"N	80°15'46.46"E
							BP. No.	LATITUDE	LONGITUDE
32	उत्तरमिड	छतरपुर	राजमगर/शुदा	30/06/2023	257	2.800/12,000	A	25° 5'32.07"N	79°57'14.75"E
							B	25° 5'19.59"N	79°57'33.86"E
							C	25° 5'16.52"N	79°57'35.97"E
							D	25° 5'17.02"N	79°57'36.92"E
							E	25° 5'20.21"N	79°57'34.82"E
							F	25° 5'21.48"N	79°57'33.39"E
							G	25° 5'28.26"N	79°57'22.37"E
							H	25° 5'33.45"N	79°57'15.15"E
							BP. No.	LATITUDE	LONGITUDE
33	उत्तरमिड	छतरपुर	राजमगर/श्रिंगीनी	30/06/2023	971, 1011	4.000/12,000	1	25° 3'14.56"N	79°58'23.59"E
							2	25° 3'14.62"N	79°58'25.59"E
							3	25° 3'9.34"N	79°58'29.25"E
							4	25° 3'9.21"N	79°58'29.57"E
							5	25° 3'2.08"N	79°58'33.18"E
							6	25° 2'54.89"N	79°58'35.48"E
							7	25° 2'48.38"N	79°58'37.55"E
							8	25° 2'48.18"N	79°58'35.73"E
							9	25° 2'53.27"N	79°58'34.34"E
							10	25° 3'3.33"N	79°58'31.02"E
							11	25° 3'11.45"N	79°58'25.97"E
							BP. No.	LATITUDE	LONGITUDE
34	उत्तरमिड	छतरपुर	राजमगर/कुपेला	30/06/2023	2/101 1	4.000/10,000	1	24°58'31.09"N	80°01'49.24"E
							2	24°58'30.75"N	80°01'53.81"E
							3	24°58'30.22"N	80°01'56.61"E
							4	24°58'27.05"N	80°02'11.86"E
							5	24°58'25.18"N	80°02'19.68"E

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							6	24°58'23.83"N	80°02'19.03"E
							7	24°58'24.93"N	80°02'12.78"E
							8	24°58'29.16"N	80°01'54.48"E
							9	24°58'29.09"N	80°01'53.20"E
							10	24°58'29.67"N	80°01'49.47"E
35	बन्ने	छतरपुर	राजनगर/ कुटिया	30/08/ 2023	1	2.100/12,000	BP. No.	LATITUDE	LONGITUDE
							1	24°46'54.00"N	79°43'58.10"E
							2	24°46'54.30"N	79°43'59.02"E
							3	24°46'51.90"N	79°43'59.81"E
							4	24°46'50.26"N	79°43'59.96"E
							5	24°46'45.55"N	79°43'56.73"E
							6	24°46'44.50"N	79°43'55.49"E
							7	24°46'38.80"N	79°43'53.19"E
							8	24°46'37.04"N	79°43'52.26"E
							9	24°46'33.44"N	79°43'49.41"E
							10	24°46'33.70"N	79°43'48.98"E
							11	24°46'35.76"N	79°43'50.08"E
							12	24°46'43.62"N	79°43'53.89"E
							13	24°46'49.61"N	79°43'58.35"E
							14	24°46'52.79"N	79°43'58.55"E
36	उपमिल	छतरपुर	सबकुसानग र/ बगमऊ	30/06/ 2023	1063	4.200/10,000	BP. No.	LATITUDE	LONGITUDE
							1	25° 5'22.54"N	79°57'31.95"E
							2	25° 5'23.98"N	79°57'32.88"E
							3	25° 4'59.70"N	79°57'52.80"E
							4	25° 4'59.10"N	79°57'51.70"E
37	धसान	छतरपुर	नीगांव/ करारागांव	30/06/ 2023	1	7.000/25,000	BP. No.	LATITUDE	LONGITUDE
							A	25°11'18.62"N	79°17'13.44"E
							B	25°11'20.95"N	79°17'15.30"E
							C	25°11'15.05"N	79°17'22.07"E
							D	25°11'13.11"N	79°17'24.16"E
							E	25°11'4.82"N	79°17'35.82"E
							F	25°11'2.57"N	79°17'34.13"E
							G	25°11'11.10"N	79°17'21.76"E
							H	25°11'12.44"N	79°17'19.90"E
							I	25°11'16.81"N	79°17'14.86"E
38	धसान	छतरपुर	नीगांव/ टीला- 2	30/06/ 2023	574	6.000/30,000	BP. No.	LATITUDE	LONGITUDE



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								1	25° 7'28.10"N	79°20'03.93"E
								2	25° 7'17.21"N	79°20'09.11"E
								3	25° 7'10.57"N	79°20'10.22"E
								4	25° 7'09.97"N	79°20'06.11"E
								5	25° 7'16.72"N	79°20'05.21"E
								6	25° 7'27.02"N	79°20'00.43"E
								BP. No.	LATITUDE	LONGITUDE
39	घसमान	छत्तारपुर	नीगाव / अलीपुरा-2	30/08/2023	2113	7.000/50,000		1	25° 9'58.26"N	79°18'44.38"E
								2	25°10'00.58"N	79°18'47.84"E
								3	25° 9'57.09"N	79°18'48.42"E
								4	25° 9'54.05"N	79°18'49.50"E
								5	25° 9'50.97"N	79°18'50.00"E
								6	25° 9'42.51"N	79°18'55.31"E
								7	25° 9'40.72"N	79°18'51.36"E
								8	25° 9'48.03"N	79°18'46.53"E
								BP. No.	LATITUDE	LONGITUDE
40	घसमान	छत्तारपुर	नीगाव / टीला-1	30/08/2023	574	4.000/45,000		1	25° 7'54.73"N	79°20'1.93"E
								2	25° 7'40.35"N	79°20'3.81"E
								3	25° 7'40.45"N	79°20'0.45"E
								4	25° 7'54.40"N	79°19'58.76"E
								BP. No.	LATITUDE	LONGITUDE
41	घसमान	छत्तारपुर	नीगाव / अलीपुरा-1	30/08/2023	2113	4.000/35,000		1	25° 9'41.32"N	79°18'56.81"E
								2	25° 9'32.81"N	79°19'03.64"E
								3	25° 9'30.66"N	79°19'00.31"E
								4	25° 9'38.74"N	79°18'52.99"E
								BP. No.	LATITUDE	LONGITUDE
42	कथाव	छत्तारपुर	बदाभलहरा / मोर (सिजियाहा)	30/08/2023	128	3.520/35,000		1	24°40'59.17"N	79°18'08.86"E
								2	24°40'59.47"N	79°18'10.23"E
								3	24°40'58.17"N	79°18'10.42"E
								4	24°40'50.80"N	79°18'12.83"E
								5	24°40'49.23"N	79°18'13.00"E
								6	24°40'40.24"N	79°18'11.69"E
								7	24°40'39.23"N	79°18'11.91"E
								8	24°40'37.20"N	79°18'13.35"E
								9	24°40'33.95"N	79°18'16.77"E
								10	24°40'32.30"N	79°18'17.29"E


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							18	24°40'45.33"N	79°33'48.89"E
							19	24°40'45.16"N	79°33'46.29"E
							20	24°40'44.40"N	79°33'44.78"E
							21	24°40'42.57"N	79°33'42.77"E
							BP. No.	LATITUDE	LONGITUDE
							1	24°40'04.19"N	79°35'08.51"E
							2	24°40'04.59"N	79°35'08.96"E
							3	24°40'03.81"N	79°35'11.70"E
							4	24°40'02.08"N	79°35'16.37"E
							5	24°40'00.34"N	79°35'18.85"E
							6	24°40'00.23"N	79°35'21.41"E
							7	24°40'00.56"N	79°35'26.32"E
							8	24°40'00.33"N	79°35'28.25"E
							9	24°40'59.89"N	79°35'29.18"E
							10	24°39'59.25"N	79°35'29.89"E
44	बन्ने	धरातपुर	विजावर / सिंग्रामपुरा	30/08/2023	53, 369	2,000/13,000	11	24°39'57.09"N	79°35'30.16"E
							12	24°39'52.52"N	79°35'29.11"E
							13	24°39'51.82"N	79°35'28.71"E
							14	24°39'51.82"N	79°35'26.96"E
							15	24°39'53.28"N	79°35'28.79"E
							16	24°39'57.44"N	79°35'29.45"E
							17	24°39'58.86"N	79°35'29.05"E
							18	24°39'59.65"N	79°35'28.20"E
							19	24°39'59.97"N	79°35'27.10"E
							20	24°39'59.47"N	79°35'22.60"E
							21	24°39'59.52"N	79°35'18.74"E
							22	24°40'01.80"N	79°35'14.58"E
							23	24°40'03.65"N	79°35'09.38"E


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45	बन्ने	छत्तरपुर	विजावर/ अमरपुरा	30/06/ 2023	332	1.50/12,000	BP. No.	LATITUDE	LONGITUDE
							1	24°39'31.04"N	79°35'40.98"E
							2	24°39'31.48"N	79°35'41.63"E
							3	24°39'29.85"N	79°35'43.04"E
							4	24°39'27.73"N	79°35'44.25"E
							5	24°39'26.55"N	79°35'44.69"E
							6	24°39'23.69"N	79°35'45.72"E
							7	24°39'21.45"N	79°35'48.32"E
							8	24°39'19.02"N	79°35'49.21"E
							9	24°39'17.45"N	79°35'49.91"E
							10	24°39'16.71"N	79°35'49.23"E
							11	24°39'18.75"N	79°35'48.29"E
							12	24°39'21.61"N	79°35'47.13"E
							13	24°39'23.37"N	79°35'45.01"E
							14	24°39'27.07"N	79°35'43.64"E
15	24°39'29.70"N	79°35'42.39"E							
46	तरपेर	छत्तरपुर	छत्तरपुर/ दिवोल	30/06/ 2023	818	2.50/10,000	BP. No.	LATITUDE	LONGITUDE
							1	24°53'10.00"N	79°20'43.60"E
							2	24°53'11.11"N	79°20'45.22"E
							3	24°53'09.42"N	79°20'46.74"E
							4	24°53'08.18"N	79°20'47.60"E
							5	24°53'06.96"N	79°20'48.87"E
							6	24°53'04.25"N	79°20'50.35"E
							7	24°53'02.24"N	79°20'51.82"E
							8	24°53'00.22"N	79°20'52.72"E
							9	24°52'58.91"N	79°20'50.96"E
							10	24°53'00.05"N	79°20'50.48"E
							11	24°52'59.94"N	79°20'50.07"E
							12	24°53'0.57"N	79°20'49.64"E
							13	24°53'01.63"N	79°20'49.71"E
							14	24°53'02.21"N	79°20'49.35"E
							15	24°53'03.05"N	79°20'48.48"E
							16	24°53'04.16"N	79°20'47.88"E
							17	24°53'04.83"N	79°20'47.08"E
18	24°53'06.07"N	79°20'46.74"E							


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							BP. No.	LATITUDE	LONGITUDE
47	तरपेर	छतरपुर	छतरपुर/ रामपुर (सुरी)	30/08/ 2023	701	1.40/10,000	1	24°51'23.95"N	79°21'22.63"E
							2	24°51'24.42"N	79°21'23.07"E
							3	24°51'14.55"N	79°21'33.61"E
							4	24°51'08.83"N	79°21'38.62"E
							5	24°51'07.91"N	79°21'39.63"E
							6	24°51'07.64"N	79°21'39.00"E
							7	24°51'08.81"N	79°21'37.65"E
							8	24°51'14.19"N	79°21'32.70"E
							9	24°51'14.89"N	79°21'32.27"E
48	बुरहा नासा	छतरपुर	छतरपुर/ कवारी	30/08/ 2023	672	1.50/12,000	1	24°49'7.70"N	79°40'19.45"E
							2	24°49'6.68"N	79°40'22.43"E
							3	24°49'3.98"N	79°40'26.08"E
							4	24°49'2.77"N	79°40'29.25"E
							5	24°49'2.40"N	79°40'35.67"E
							6	24°49'2.12"N	79°40'39.77"E
							7	24°49'3.88"N	79°40'41.92"E
							8	24°49'6.88"N	79°40'42.96"E
							9	24°49'6.84"N	79°40'43.52"E
							10	24°49'3.29"N	79°40'42.44"E
							11	24°49'1.32"N	79°40'39.32"E
							12	24°49'1.82"N	79°40'30.85"E
							13	24°49'2.74"N	79°40'27.47"E
							14	24°49'5.94"N	79°40'22.67"E
							15	24°49'7.18"N	79°40'19.99"E

P. Singh

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District Survey Report: Chhatarpur

4 Details of Royalty and Revenue received in last three years for Sand and Minor Mineral (2018-19, 2019-20 and 2020-2021):

Table 3: Revenue received in last three years for Sand

Year	Revenue (In Rs.)
2018-19	8,93,93,834.25
2019-20	18,99,75,000.00
2020-21	27,64,93,790.00




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5) Details of Sand Production in last 3 years (2018-19, 2019-20 and 2020-2021):

Table- 5 Sand Production in last 3 years

Year	Production (In Cu.Mt)
2018-19	602351.00
2019-20	257111.3
2020-21	481070.12


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(6) Process of Deposition of Sediments in the rivers of the District

Physiographically the district has been divided broadly into three main geomorphic units. The Panna range, the central plateau & northern plains range which traverses the district in a south west north east direction. This range separates the upper Bundelkhand from lower Bundelkhand plateau. Overlying the archeans is formed by Bijawar and Vindhyan beds which are highly folded and are also dissected by the superimposed drainage system. The highest peak lies at Ban Pathar (24° 37' N; 79° 45' E) in the district at 607 m amsl. The central plateau runs to the north as an offshoot of Panna range. It lies mainly on the Bundelkhand granites & forms the central sub-water divide. The give way to lower plains along the Ken and Dhasan in the east & west respectively. The northern plateau lies between 150 to 300 m amsl & covers nearly the whole of Loundi Tehsil. It is covered by varying thickness of alluvium but is cut in ravines resulting in "bad land" topography.

i) Geomorphology: Place of origin / Catchment area/Tributaries/General profile of river stream;

Geomorphologically, The Ken, one of the tributary of Yamuna flows through the Madhya Pradesh and Uttar Pradesh states. The Ken river has its origin on the north-west slopes of the Kaimur hills in the Satna district of Madhya Pradesh. It generally flows in a north-easterly direction and joins the Yamuna near Chilla. The river has a total length of 357 km and forms a state boundary between Chhattarpur district of Madhya Pradesh and Banda district of Uttar Pradesh. The tributaries of Ken are the Sonar, the Bearma, the Kopra, the Bewas, the Urmil, the Mirhasan, the Kutni, the Kail, the Gurne, the Patan, the Siameri, the Chandrawal, the Barne etc. The longest tributary is Sonar which is 227 km in length and wholly lies in Madhya Pradesh.

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Drainage basin

Ken basin

The Ken River originates from the Ahirgawan village on the north-west slopes of the Kaimur hills in the Jabalpur district of Madhya Pradesh at an elevation of about 550 m above mean sea level. The total length of the river from its origin to its confluence with the Yamuna River is 427 km, out of which 292 km lies in Madhya Pradesh, 84 km in Uttar Pradesh and 51 km of its course forms the common boundary between the two states. The river joins the Yamuna River near village Chilla in Uttar Pradesh at an elevation of about 95 m. The river is the last tributary of Yamuna before the Yamuna joins the Ganga. The river basin lies between 23°12' - 25°54' N latitudes and 78° 30' - 80° 36' E longitudes. The total catchment area of the river is 28058 sq. km, out of which 24472 sq. km lies in Madhya Pradesh and the remaining 3586 sq. km in Uttar Pradesh.

The Ken basin covers Sagar, Damoh, Panna, Satna, Chhatarpur, Katni, Narsinghpur and Raisen districts of Madhya Pradesh and Mahoba and Banda districts of Uttar Pradesh. It is bounded by Vindhyan range in the south, Betwa basin on west, free catchment of Yamuna below Ken on east, and the river Yamuna on north. The important tributaries of Ken are Alona, Bearma, Sonar, Mirhasan, Shyamari, Banne, Kutni, Urmil, Kail and Chandrawal. The longest tributary of Ken River is Sonar which is 199 km in length and lies wholly in M.P. in the upstream of the Daudhan dam site. In terms of catchment area also, Sonar is the largest tributary with a catchment area of 12620 sq. km. Out of the others, Alona, Bearma, Mirhasan and Shyamari join Ken River upstream of the proposed Daudhan dam. River Banne on which the Rangawan dam is constructed joins Ken River between the proposed dam site and the existing Bariyarpur Pick Up Weir (P.U.W.), while Kutni, Urmil, Kail and Chandrawal join downstream of Bariyarpur P.U.W. Urmil and Kail rivers have part of their catchments in Uttar Pradesh while river Chandrawal has the most of its catchment area in Uttar Pradesh.



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Dhasan River is a right bank tributary of the Betwa River. The river originates in Begunganj tehsil of Raisen district in Madhya Pradesh state in central India. The river forms the southeastern boundary of the Lalitpur District of Uttar Pradesh state. Total length of the river is 365 km, out of which 240 km lies in Madhya Pradesh, 54 km common boundary between Madhya Pradesh and Uttar Pradesh and 71 km in Uttar Pradesh. The river was known as the *Dasharna* in ancient period. The Lehchura Dam is built on this river at 2 km from Harpalpur railway station.

Urmil River has an overall drainage basin of 3500 km². The Ken basin covers Sagar, Damoh, Panna, Satna, Chhatarpur, Katni, Narsinghpur and Raisen districts of Madhya Pradesh and Mahoba and Banda districts of Uttar Pradesh. It is bounded by Vindhyan range in the south, Betwa basin on west, free catchment of Yamuna below Ken on east, and the river Yamuna on north. The important tributaries of Ken are Alona, Bearna, Sonar, Mirhasan, Shyameri, Banne, Kutni, Urmil, Kail and Chandrawal. The longest tributary of Ken River is Sonar which is 199 km in length and lies wholly in M.P. in the upstream of the Daudhan dam site. In terms of catchment area also, Sonar is the largest tributary with a catchment area of 12620 sq. km. Out of the others, Alona, Bearna, Mirhasan and Shyamari join Ken River upstream of the proposed Daudhan dam. River Banne on which the Rangawan dam is constructed joins Ken River between the proposed dam site and the existing Bariyarpur Pick Up Weir (P.U.W.), while Kutni, Urmil, Kail and Chandrawal join downstream of Bariyarpur P.U.W. Urmil and Kail rivers have part of their catchments in Uttar Pradesh while river Chandrawal has the most of its catchment area in Uttar Pradesh.

ii) Geology / Lithostratigraphy :

Geologically, the area comes under the stream bed. The alluvium deposits consist series of Pebbly sand, fine to medium sand and clays. The flood plains on the bank of the Ken river comprising brown silt, fine sand and charcoal bearing red silt sand, gravel and conglomerate.



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The basement and near by rock formations are part of Bundelkhand Gneissic complex of Archaean age. The near by rock formations comprises Pink, meadium to coarse grained massive rock.

iii) Climatic Data & Annual precipitation:

A hot summer and general dryness except during the South west monsoon season. The year may divided into four season. The cold season, December to February is follwed by hot season from March to middle of June. The period from middle of June to September in the south west monsoon season. October and November from the post monsoon or transition period. The nearest IMD observatory in Nowgaon.

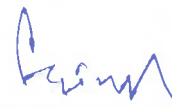
The normal annual rainfall of Chhatrpur district is 1068.3 mm. the district receives maximum rainfall during south west monsoon period i.e. June to September. About 90.2% of the annual rainfall received during monsoon season. Only 9.8% of the annual rainfall takes place between October to May period.

The normal maximum temperature received during the month of May is 42.30C & minimum during the month of January is 7.10 C the normal annual means maximum & minimum temperature of Chhatarpur district is 32.70 C and 18.10 C respectively.

During the south west monsoon season the relative humidity generally exceeds 88% (August month) & the rest of the year is drier. The driest part of the year is the summer season, when relative humidity is less than 30% may is the driest month of the year.

iv) Erosion & Weathering:

Since the temperature variation during various seasons in a year is quite considerable high degree of weathering is likely to result. The rainfall being moderate, the potential of transportation of weathering material into river is also moderate.



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v) Sedimentation & Transportation:

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

When a river erodes the eroded material becomes the river's load and the river will then transport this load through its course until it deposits the load. There are a few different ways that a river will transport load depending on how much energy the river has and how big the load is.

vi) Engineering Structures stop dam/ check dam/ barrage/

Hydal dams :

Man made structures like stop dam / check dam / barrage / and hydle dams also affects the sand flow and act as check over the sand deposition in

downstream area.

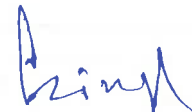
vii) Activity near river bank:

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

viii) Tributaries and its confluences:

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

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



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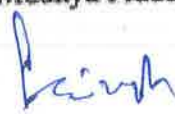
PROCESS OF REPLENISHMENT (SEDIMENT TRANSPORTATION AND DEPOSITION)

Sediments in rivers gets deposited as the river slows down. Larger, Heavier particles like pebbles and sand are deposited first, while the lighter silt and clay only settle if the water is almost still. When river reaches a lake or the sea, it quickly deposits much of its sediment. The loose boundary (consisting of movable material) of an alluvial channel deforms under the action of flowing water and the deformed bed with its changing roughness (bed forms) interacts with the flow. A dynamic equilibrium state of the boundary may be expected when a steady and uniform flow has developed. The resulting movement of the bed material (Sediment) in the direction of flow is called sediment transport. To transport load a river needs to have energy so when a river loses energy it is forced to deposit its load.

Bed load ranges from a few percent of total load in lowland rivers to perhaps 15% in Mountain rivers to over 60% in some arid catchments. The rate of sediment transport typically increases as a power function of flow, i.e. a doubling of flow typically produces more than doubling in sediment transport occurs during floods. Downstream movement commonly occurs as irregular basis bursts of short-distance movement separated by longer periods, when the particles remain at rest. Because variation in bed load changes, estimating annual bed load rated is a dynamic process involving careful examinations.

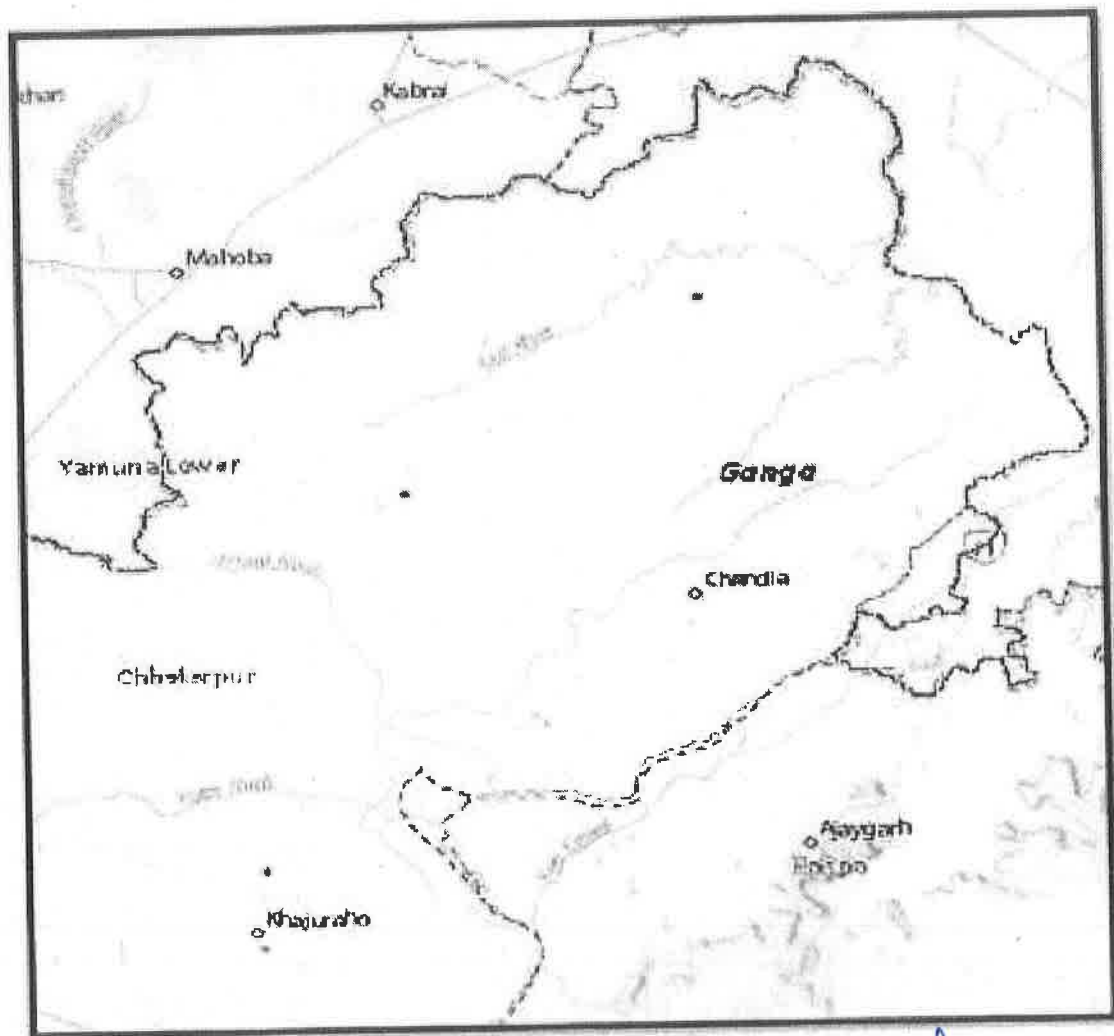
THE REPLENISHMENT ESTIMATION METHOD:

The mineral potential is calculated based on field investigation and geology of the catchment area of the river/streams. The area of removal of mineral in a river or stream can be decided depending on geomorphology and other factors, it can be 50% to 60% of the area of a particular river/stream. The percent of mineral constituent like boulder, bajri, sand also varies for different rivers / streams. While calculating the mineral potential the percentage of each mineral constituent is as, boulders 35-40%, Bajri 30-35%, Sand 25-30%, and 5-10% for silt and clay where as in Madhya Pradesh


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river deposition of boulder 5-10% Bajri 10-15% and sand 75-80% and silt, the quantum of deposition varies from stream to stream depending upon factors like catchment Lithology, discharge, river profile and geomorphology of the river course. There are Certain geomorphological features developed in the river beds such as channel bar, point bar etc. where annual deposition is more even two to three meters. The mined out area of the premonsoon will be completely replenish with sand during monsoon. Hence it is assume that the pits will be replenished after each monsoon.

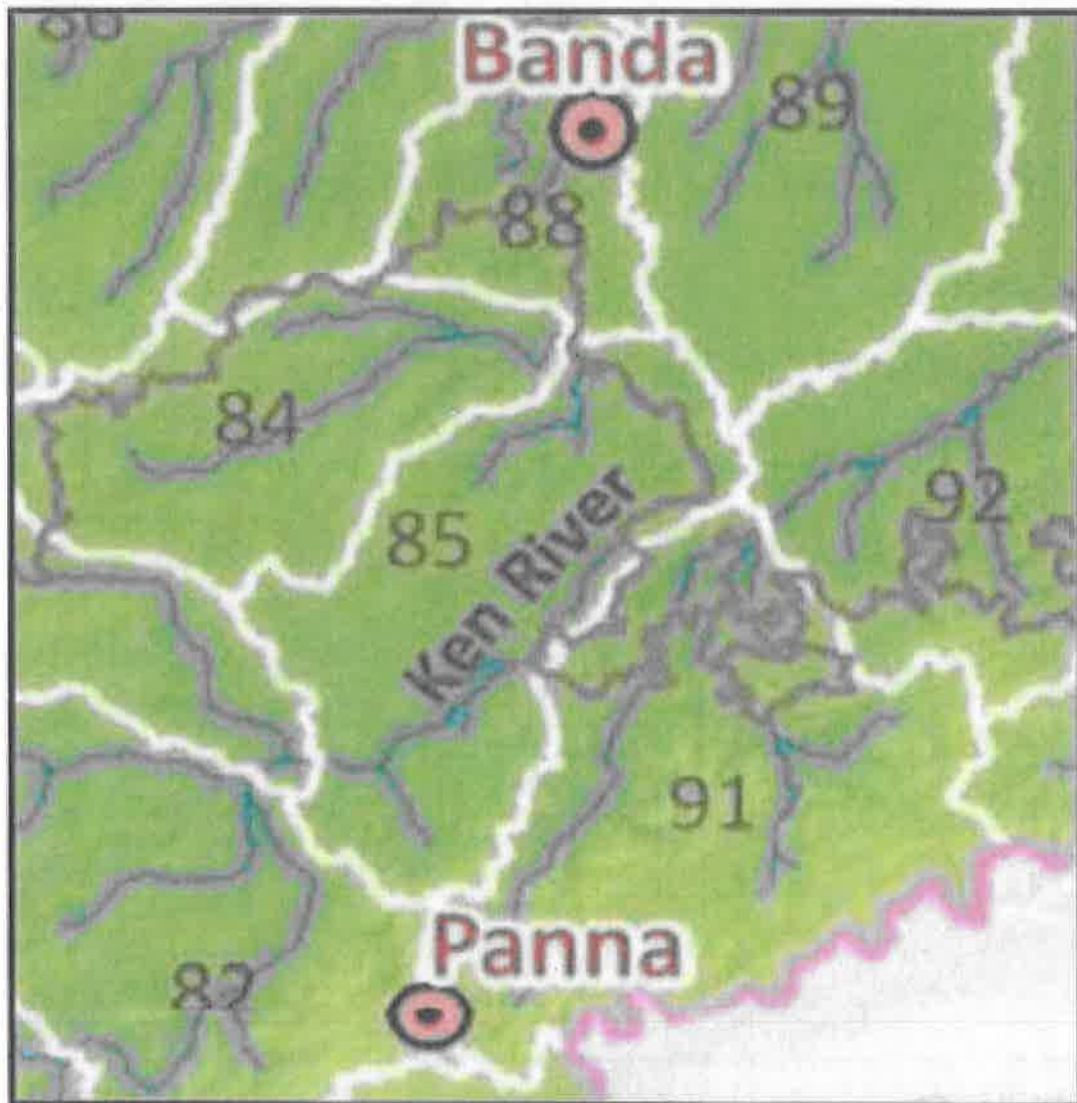
Following are some pictures showing the overview of Ken River:



Rich

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The geographical extent of the Yamuna Lower sub-basin lies between 77° 6' to 81° 55' east longitudes and 22° 51' to 28° 1' north latitudes of the country. The Sind, the Betwa, the Dhasan, the Ken rivers are the major tributaries in the Yamuna lower sub-basin. The Yamu Lower sub-basin is the largest sub-basin of the Ganga basin with a total catchment area of 1,24,867 Sq.km. The sub-basin majorly covers the states of Uttar Pradesh and Madhya Pradesh. The sub basin map is shown below:



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Conclusion


The sand replenishment in river can be studied by taking aforesaid points, which are dealt in preceding Para's. The frequency and intensity of deposition is variable according to the climatic conditions which prevails in an area, and the piling/ thickness of sand deposition is entirely depend upon the quantity of transportation of detritus material during flood. The drainage basins of these rivers are separated by a water divide. Annually in the monsoon season; due to rain in the nearby areas the sand is flowing along the rainy water and rest at the meanders.



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(7) General Profile of the District

1. Geographical Position	Laying between north latitudes 24°06' and 25°20' and east longitude 79°59' and 80°26 falls under the survey of India toposheet No. 540, 54P, 63D. The district is bounded by Mohaba district U.P in the north, Panna district, in the east Tikamgarh district in the west and Sagar & Damoh district in the south.
2. Area and Population	<p>I. Geographical Area (Sq.Km)</p> <p>Total Area (Sq.Km): 8616.82 Km²</p> <p>II. CENSUS 2011</p> <p>I. Population</p> <p>a) Total Population: 17,62,375</p> <p>b) Male Population: 9,36,121</p> <p>c) Female Population: 8,26,254</p> <p>II. Literates</p> <p>a) Total Literates: 9,43,033</p> <p>b) Male: 5,72,010</p> <p>c) Female: 3,71,023</p> <p>III. Main Workers (Census 2011)</p> <p>a) Total Workers: 7,51,797</p> <p>b) Male Workers: 4,81,518</p> <p>c) Female Workers: 2,70,279</p> <p>d) Cultivators: 2,58,880</p> <p>e) Agricultural Labourers: 1,30,732</p>


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	f) Other Workers: 1,48,145 V. Languages Spoken in the District Hindi and Urdu
3. Temperature	Plains – Maximum: 42.3°C Plains – Minimum: 7.1°C
4. Rainfall (In mm)	Normal – South West Monsoon: 963.60 mm Annual Rainfall: 1068.3 mm
5. Agriculture	a) Total Cultivated Area (Ha): 469.3 b) Net Area Sown (Ha): 319.9 c) Area Sown more than once (Ha): 84.8
6. Rivers, Drainage, etc.	Name of the Rivers: Yamuna Sub-basin of Ganga basin, Bharar, Tarper, Siamri, Kahrre and Kutni rivers, Ken and Dhasan
7. Revenue Administrative Divisions	Revenue Divisions: a. Revenue Blocks: 8
8. Local Bodies	a. Corporations: nil b. Municipalities: 3 c. Panchayats: 148

Census Data 2011

Census Data for year 2011

Description	2011
Actual Population	17,62,375
Male	9,36,121
Female	8,26,254
Population Growth	19.51%
Area Sq. km.	8,687
Density/KM ²	203
Proportion to population of Madhya Pradesh	2.43%
Sex Ratio (Per 1000)	883
Child Sex Ratio (0-6 Age)	900


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Average Literacy	63.74
Male Literacy	72.66
Female Literacy	53.59
Total Child Population (0-6 Age)	2,82,794
Male Population (0-6 Age)	1,48,861
Female Population (0-6 Age)	1,33,933
Literates	9,43,033
Male Literates	5,72,010
Female Literates	3,71,023
Child Proportion (0-6 Age)	16.05%
Boys Proportion (0-6 Age)	15.90%
Girls Proportion (0-6 Age)	16.21%

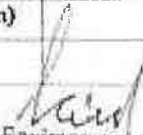
(8) Land utilization Pattern in the District: Forest, Agricultural, Mining, etc.,

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 a change 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.

The major portion of the district covered by agricultural land that consist 64.75% of total land use pattern area. Followed by second largest area deciduous forest with 18.64% area.

Land Use Pattern of the Study Area

Sr. No.	Class	Area (Ha)	Percentage Of Coverage
1	Agricultural Plantation	205.67	0.02%
2	Barren rocky	456.21	0.05%
3	Cropland	561690.84	64.75%
4	Deciduous (Dry/Moist/Thorn)	161713.25	18.64%
5	Fallow land	9186.95	1.06%

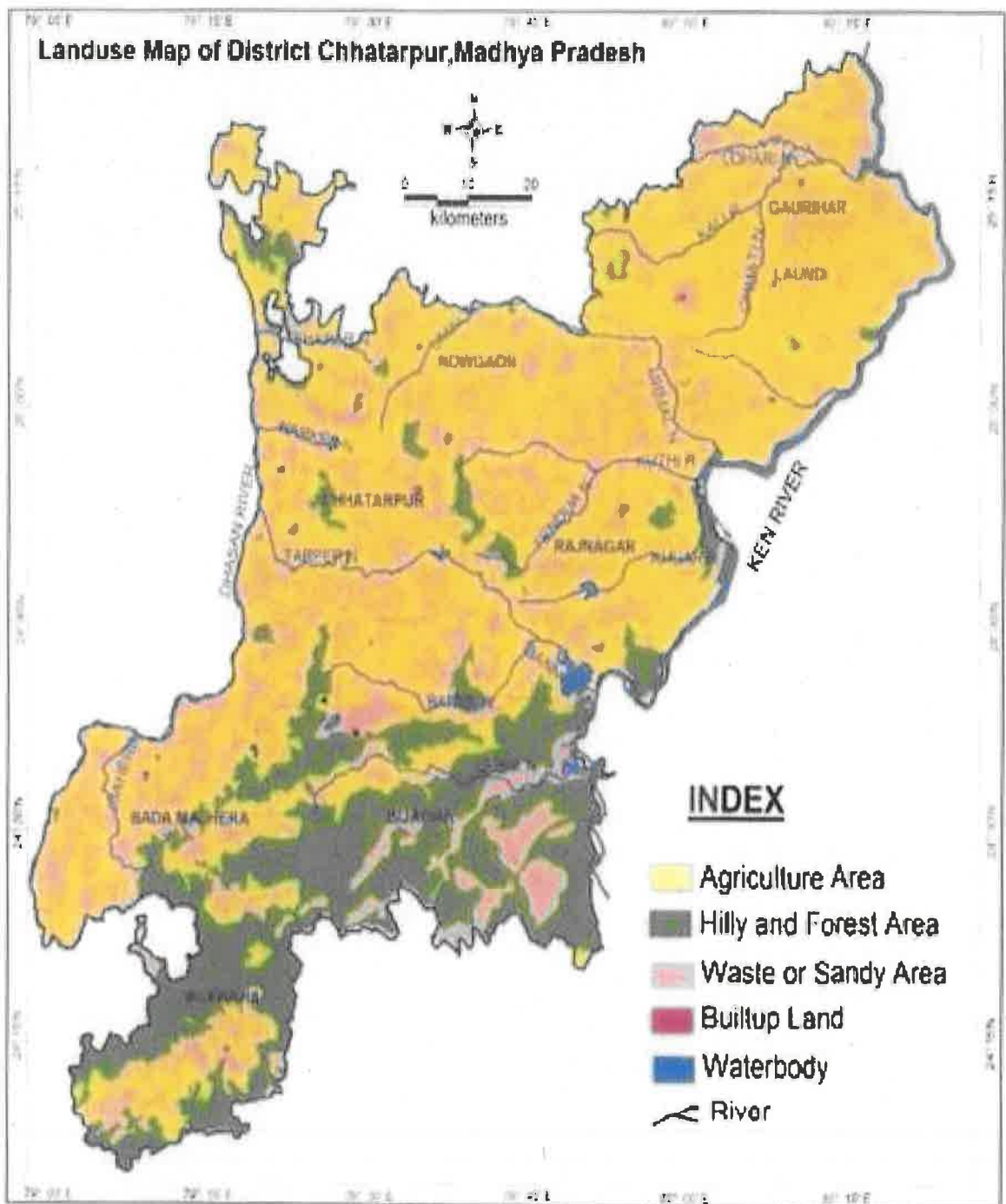

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6	Forest Plantation	56.69	0.01%
7	Gullied/Ravenous land	3625.06	0.42%
8	Industrial	75.17	0.01%
9	Lake/Ponds	4308.93	0.50%
10	Mining / Quarry	1257.46	0.14%
11	Reservoir/Tank	5333.82	0.61%
12	River	8830.95	1.02%
13	Rural	7322.45	0.84%
14	Scrub Forest	13250.31	1.53%
15	Scrub land	81572.95	9.40%
16	Tree Clad Area	5839.79	0.67%
17	Urban	2721.22	0.31%
	Total	86740.73	100.00%

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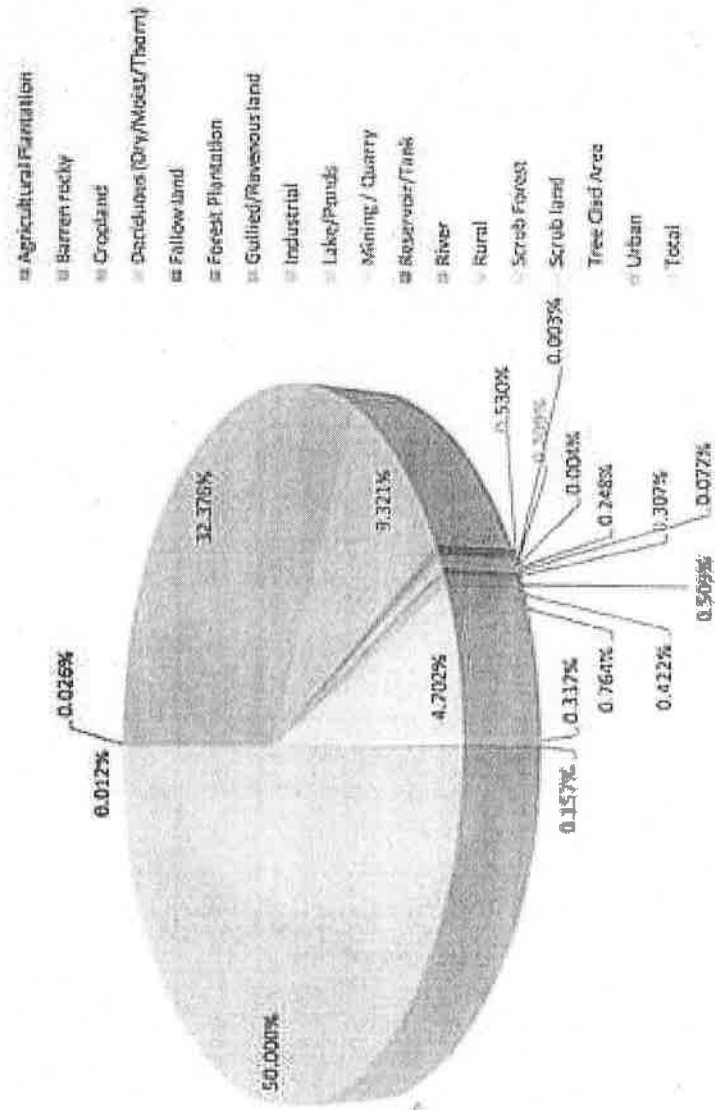
Landuse Map



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Land Use Pattern



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Figure 6 Land Use and Land Cover Breakup of the District

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(9) Physiography of the District

Chhatarpur district located at 24.06° & 25.20°N 78.59° & 80.26° E respectively. Chhatarpur District is bounded by Uttar Pradesh state to the north, and the Madhya Pradesh districts of Panna to the east, Damoh to the south, Sagar to the southwest, and Tikamgarh to the west. Chhatarpur District is part of Sagar Division.

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(10) Details of Month wise Rainfall data of one year

Table 14 Details of Month wise Rainfall Data (June-2021 to march2022)

Sr No.	Name of Rain Center	Rain on dated 05.04.2022		01.06.2021 to 05.04.2022		Rain of last year 05.04.2021		Last year 01.06.2020 to 05.04.2021		Description
		mm	inch	mm	inch	mm	inch	mm	inch	
1	Chhatarpur	0.0	0.00	823.8	32.4	0.0	0.0	709.2	27.9	
2	Luvkishanagar	0.0	0.0	777.0	30.6	0.0	0.0	543.0	21.4	
3	Bijwar	0.0	0.0	667.3	26.3	0.0	0.0	792.0	31.2	
4	Nougaon	0.0	0.0	1065.7	42.0	0.0	0.0	784.2	30.9	
5	Rajnagar	0.0	0.0	885.2	34.9	0.0	0.0	870.2	34.3	
6	Gouribar	0.0	0.0	950.0	37.4	0.0	0.0	793.0	31.2	
7	BadanaBarna	0.0	0.0	1063.8	41.9	0.0	0.0	827.2	32.6	
8	Bulewaha	0.0	0.0	741.2	29.2	0.0	0.0	869.0	34.2	
	Total	0.0	0.0	6974.0	274.7	0.0	0.0	6187.8	243.7	
	Average Rainfall	0.0	0.0	871.75	34.33	0.0	0.0	773.475	30.46	


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 India

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Rainfall of the District and Climate Conditions

Rainfall

Chhatarpur District receives maximum rainfall during the south west monsoon. The South west monsoon arrives at the end of June and last till end of September. There are five rain gauge stations in Chhatarpur district namely Chhatarpur, Buxwaha, Bijawar, Rajnagar and Nowgaon. The long term regular rainfall data is available for two stations viz Chhatarpur, and Nowgaon only. On the basis of long term data, the normal rainfall has been worked out. The maximum rainfall received at Bijawar is 1130mm and minimum at Nowgaon is 1028 mm.

About 91 % of the annual rainfall takes place during the south west monsoon i.e., June to September, Only about 2% of the annual rainfall takes place during these winter season from October to February and only about 7% of the annual rainfall takes place during the summer season i.e., March to May. Hence only about 9% of the annual rainfall takes place from October to May. Thus, the surplus water is available only during the south west monsoon. July is the wettest month of the year. About 3% of the annual rainfall takes place during the month of July only.

Recent rainfall data of Chhatarpur and Nowgaon is available from 1976 to 1997. While analysis, the recent year rainfall data, is clear that "Most Severe Drought" conditions have occurred in the last seven years. Only once during 1984 in Chhatarpur area and 1979 in Nowgaon area has severe drought conditions were observed. During other years, more than the normal or rainfall within normal range of drought condition was received. Hence Chhatarpur district is not a drought prone district. During the year 1997, Nowgaon Station received more than the normal rainfall while Chhatarpur Station received about 82% of the normal rainfall.

Climatic Conditions

Chhatarpur district can be classified into three major seasons: Summer, winter and monsoon. The temperature starts rising from the middle of February and reaches maximum during the month of May. The daily maximum temperature during the month of May is around 42.7°C, while annual daily maximum normal temperature is around 32.6° C the day temperature on individual days during the summer season goes up to around 45°C. On the arrival of monsoon at the end of June there is a dip in temperature and weather becomes pleasant. After withdrawal of monsoon early in October, there is slight increase in day temperature. After

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October or from middle of November both the day and night temperature starts falling and lowest temperature recorded in the month of December. The minimum mean normal daily temperature is about 7.5°C, and the annual daily mean normal temperature is about 18.6°C. Sometimes, the minimum temperature drops down to even as low as 1-2°C.

The summer season is the driest period of the year. Hence humidity is also very low during the summer season. The minimum humidity recorded during the month of April/May about 33%. On the arrival of South west monsoon, the humidity increases and highest recorded during the month of August i.e., 85%. The humidity again decreases with withdrawals of monsoon and due to high temperature.

The wind velocity is high during the pre-monsoon period as compared to post monsoon. The highest wind velocity is recorded during the month of June. The mean monthly normal wind velocity during the month of June is around 8.2. The annual average normal wind velocity is around 4.5 Km/hr.


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(11) Geology and Mineral Wealth

Regional Geology (Source: DRM):

The major part of the district is occupied by Bundelkhand Gneissic Complex comprising a variety of medium to coarse grained granites, migmatites, gneisses etc. They also contain minor enclaves of schist, phyllites, banded hematite quartzite and metabasites. The Bundelkhand Gneissic Complex is traversed by a large number of NE-SW and NW-SE trending quartz reefs and NW-SE trending dolerite dykes, pegmatites and quartz veins. These rocks are overlain by ENE-WSW trending sedimentary sequence of Bijawar Group of rocks in the south-central part of the district. It includes chert breccias and volcanic unit in the lower part, followed by stromatolitic dolomites. Phosphatic and ferruginous units comprising ferruginous breccia, shale, sandstone and conglomerate overlie the dolomites. Vindhyan Supergroup overlies Bijawar Group in the southern and eastern parts and is represented by quartzite/sandstone, limestone, porcellanite, dolomitic limestone and shale belonging to Semri Group; conglomerate, shale, sandstone and quartzite/sandstone of Kaimur Group; shale and sandstone/quartzite of Rewa Group. The Lameta Group of rocks overlies the Rewa sandstone and comprises arenaceous limestone, cherty limestone, grit and clays. Deccan traps overlay the Lametas in the southwestern part of the district.

The Bijawar Group of rocks in the district hosts a variety of mineral resources, which include phosphorite, low silica dolomite, limestone and calc-tuff are mined at several places in the district. Occurrence of diamond is reported from Angor area where occasional diamonds are recovered. Granite is extensively quarried and used as dimension stone for construction purpose. Diaspore, phyllophyllite, red oxide, clays etc. are also being mined locally.



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Table: General geological successions of Chhatarpur district

Age	Stratigraphic Status	Lithology	Characteristics
Quaternary		Soil and Alluvium	Soft, Unconsolidated and loose sediments
Upper Cretaceous to Palaeogene		Deccan Trap	Dark grey, fine to medium grained, non to sparsely porphyritic
Cretaceous	Lameta Group	Sandstone/limestone	Brownish, yellowish to buff coloured, medium to coarse grained, friable, calcareous at places
Neo-Proterozoic	Vindhyan Supergroup (Rewa Group)	Sandstone/quartzite	Light reddish brown, hard and massive, fine to medium grained, thickly bedded
		Shale	Dark brown, fine grained, fissile
Meso-Proterozoic	Kaimur Group	Quartzite/Sandstone	Fine grained, hard and compact, massive, thickly bedded
		Sandstone Shale Conglomerate	Reddish brown, fine grained, massive Reddish brown fine grained soft and fissile Sub-angular to sub-rounded pebbles of varied coloured chert, jasper, quartz and quartzite embedded in a coarse sandy matrix
Meso-Proterozoic	Semri Group	Shale Shale Dolomitic limestone & chert breccia Porcellanite with black carbonaceous shales	Grey to khaki grey, fine grained soft & splintery Greenish/pinkish grey, fine-grained, soft Greyish blue, fine grained, massive, thinly bedded
		Limestone Quartzite/sandstone	Light green, very fine grained, hard and compact rock with thin bands of black carbonaceous shale Dirty grey to grayish blue, fine grained, massive, & thinly laminated Dirty white, fine to medium grained, hard and massive
Palaeo-Proterozoic	Bijawar Group	Shale/quartzite	Greyish brown, reddish, soft, and splintery with interbeds of hard ferruginous quartzite
		Dolomitic Limestone Quartzite	Bluish grey, fine grained, hard, massive, and fractured Yellowish grey, fine grained, hard and massive

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		Trap Chert/breccia	Greenish Grey, fine grained, hard, compact and foliated Reddish yellow, fine grained, hard. Compact and fractured
Archaean	Bundelkhand Gneissic Complex	Basic dykes/quartz reefs Granite Granite Granite and gneisses	Colourless, dirty white, fine grained, hard, massive, dark grey, fine to medium grained, hard and compact Pink, fine grained, massive, hard & compact Pink, medium to coarse grained massive rock Pink, pinkish grey, porphyritic, foliated and banded rock with enclaves of amphibolites and schist.


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In addition to the above, the report shall contain the following:

- (a) District wise detail of river or stream and other sand source;
- (b) District wise availability of sand or gravel or aggregate resource;
- (c) District detail or existing mining leases of sand and aggregates.

Please Refer The Table No. 03 :-


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(12) Drainage and Irrigation Pattern

Drainage Pattern

The District as a whole lies in the Yamuna sub-basin of the Ganga basin. On a localized scale, there is a surface water divide running from South to North past Buxwaha, Rajnagar 13 Chhatarpur and Lundi. The area to the East of this divide, forming almost 70% of the district, is drained by the Ken and to the West by the Dhasan. The Ken is perennial while the Dhasan has ephemeral tendency in major part of its course. Most of the stream traversing in the area has their courses in rocky terrain with almost no alluvium or very thin sand cover even in their channels section, except along the Ken and Bharay where the alluvium is comparatively thicker.

The streams in the area exhibit large variation in the drainage pattern. Whereas, the drainage is uncontrolled in the granitic terrain, litho logically and structurally controlled drainage is observed in the Vindhyaans, where the streams have calved out their courses in strike alignment through the soft rock unit. Parallel to sub parallel drainage is seen on the dip slope side of the Vindhyaans and is especially well developed on the Rewa sandstones.

Drainage in the Bijawars is mainly lithologically controlled and the streams have their courses through shales and limestones.

The Ken

The Ken flows to the north and Northeast along the eastern boundary of Chhatarpur district. The Northern course of the river has cut a deep gorge across the Panna range of the Vindhyan Mountain. The river bed and the bank expose massive sandstone and shale of the Vindhyaans, and later the breccias and limestones of the Pulkawan in which Ken flows in the lower plateau composed of Bundelkhand granites and gneisses.

There are several tributaries of the Ken, Sonar, Burala, Shyamari, Khurar, Kaitri, Urmil, Lahrak and Koil which join the left bank of the river.

The Dhasan

The Dhasan has a northerly course and forms the boundary with Tikamgarh district. It joins the Betwa in Uttar Pradesh. In its early course, the river flows through the Deccan traps and then crosses the Vindhyaans, Bijawars and Bundelkhand granites before entering the alluvial


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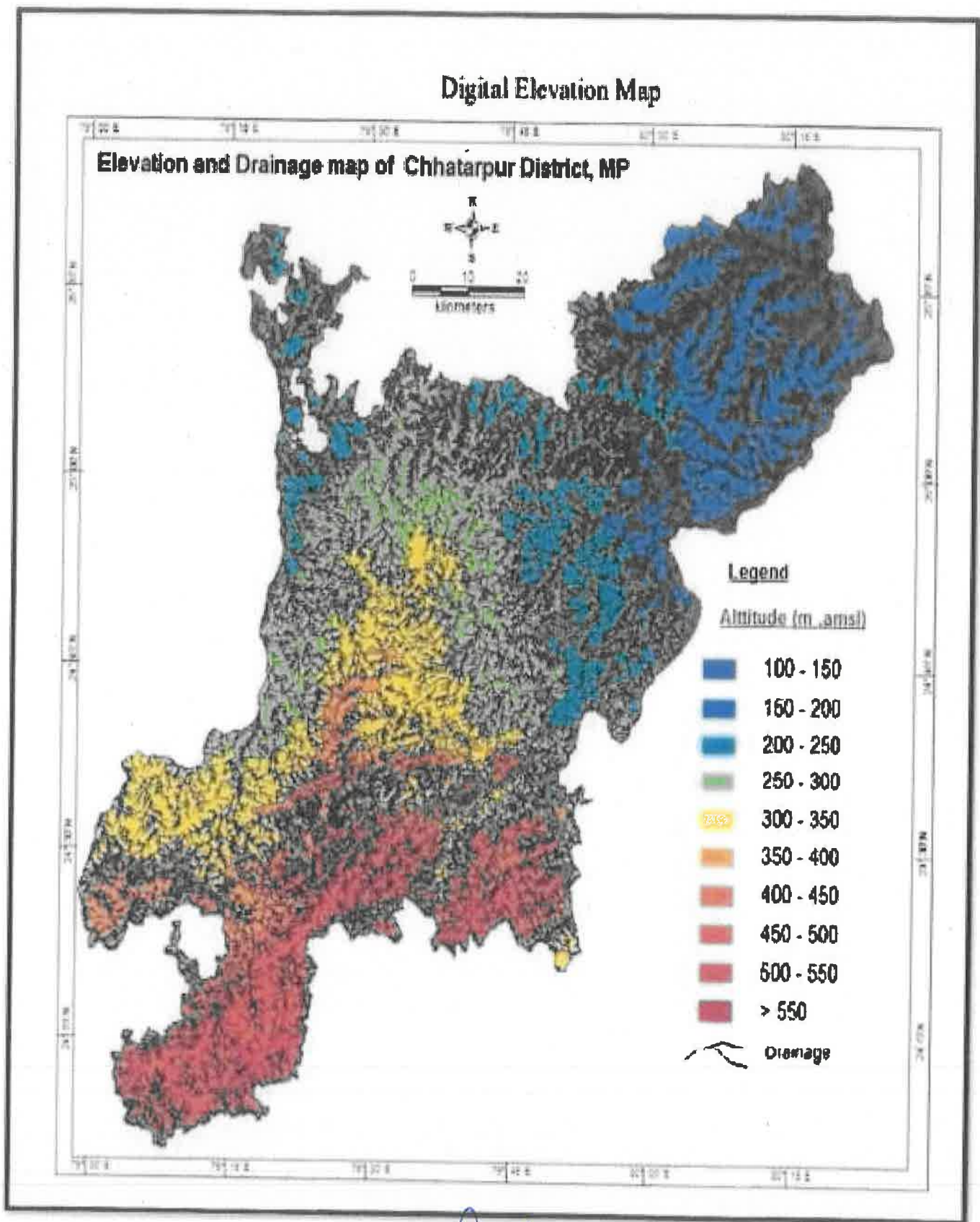
plains. The main tributaries of the Dhasan are - Kather, Majrer, Tarper, Sharar which join the river.

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.

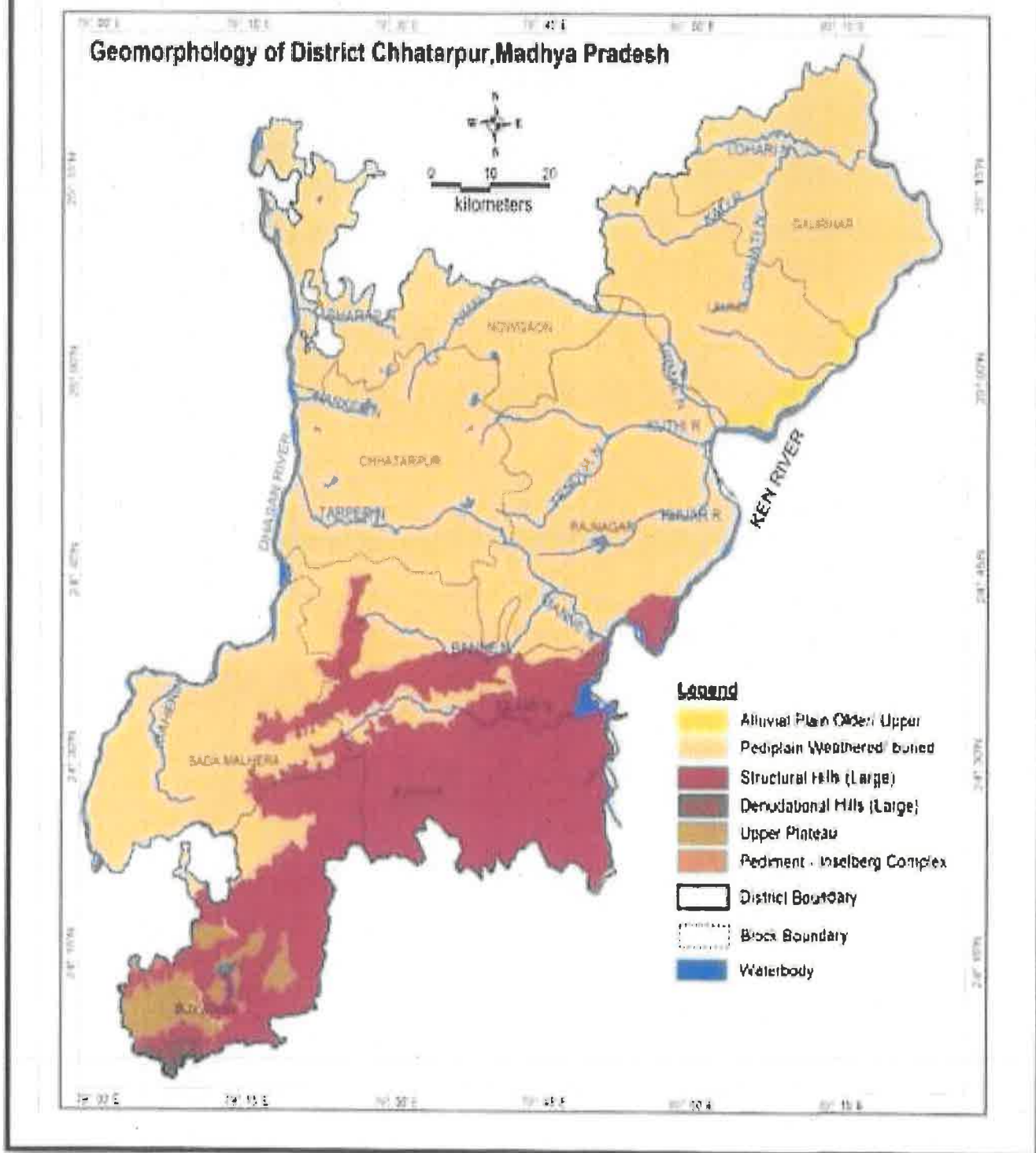

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Digital Elevation Map



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Geomorphology Map



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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 is called Ground water Table.

Water level data, including historical data are essential not only for finding out the present ground water conditions but also for forecasting future trends in response to ground water reservoir operations. Using the water level data of 26 monitoring well of Chhatarpur district, Pre and post monsoon depth to water level maps are reproduced. Dynamic ground water resources of the district have been estimated for base year - 2008/09 on block-wise basis. There are eight number of assessment units (block) in the district which fall under non-command (96%) and command (3%) sub units. All blocks of the district in command area are categorized as safe blocks. Bijawari, Gaurihar and Loundl blocks in non-command sub units are safe. Badamalhera, Buxwaha, Chhatarpur, Nowgaon and Rajnagar are under semi critical highest stage of ground water development is computed as 93% for Chhatarpur Block. Source: Central Ground Water Board - District Report)

Surface Water

The district as a whole lies in the Yamuna sub basin of the Ganga basin and traversed by the left bank tributaries of the Ken & the right bank tributaries of the Dhasen. The catchment area of Ken Dhasen rivers falling in the district are 6,033.17 Sq.km and (69.99%) and 2,594.25 Sq. km (30.10%) respectively.

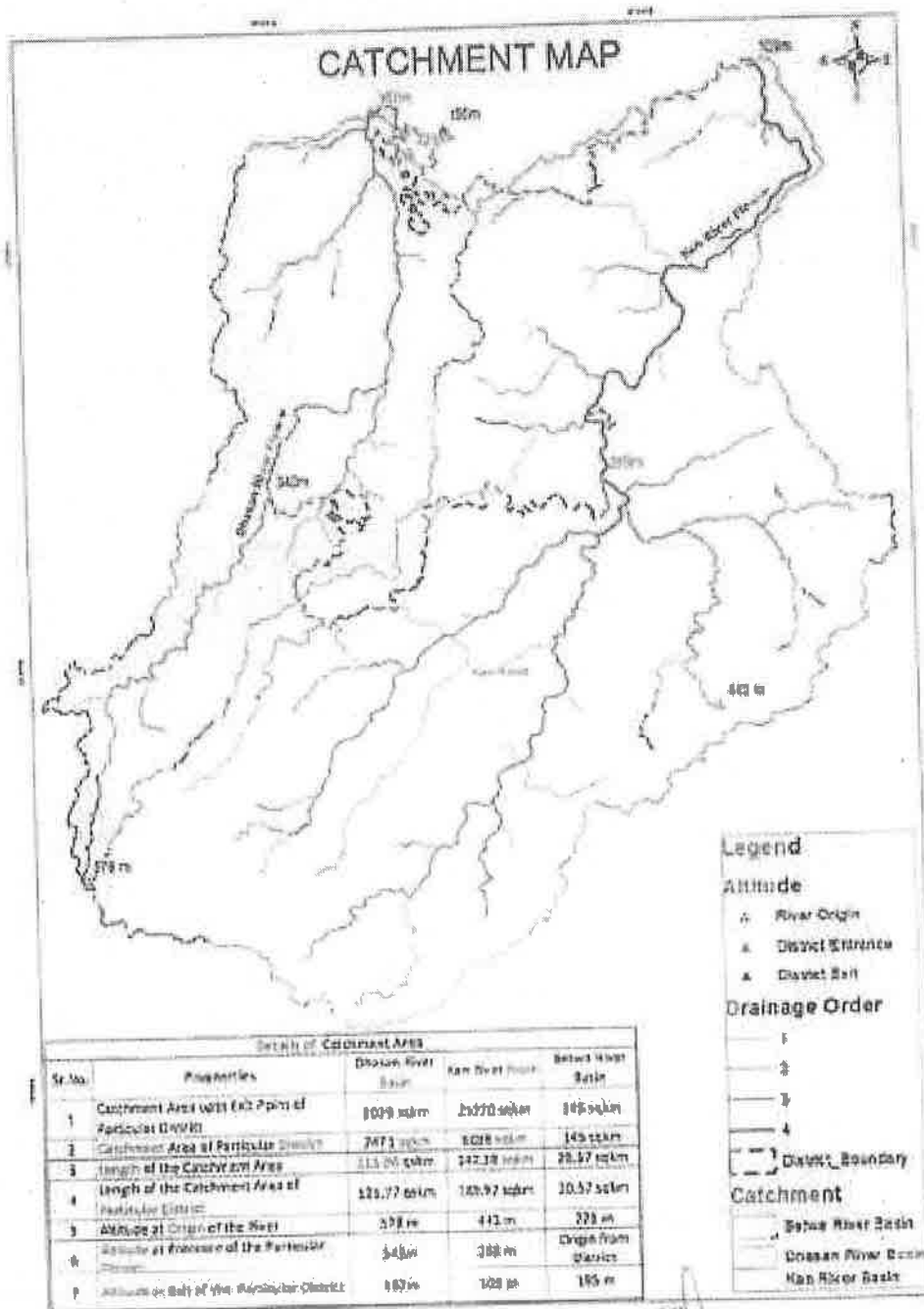

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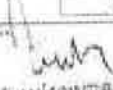
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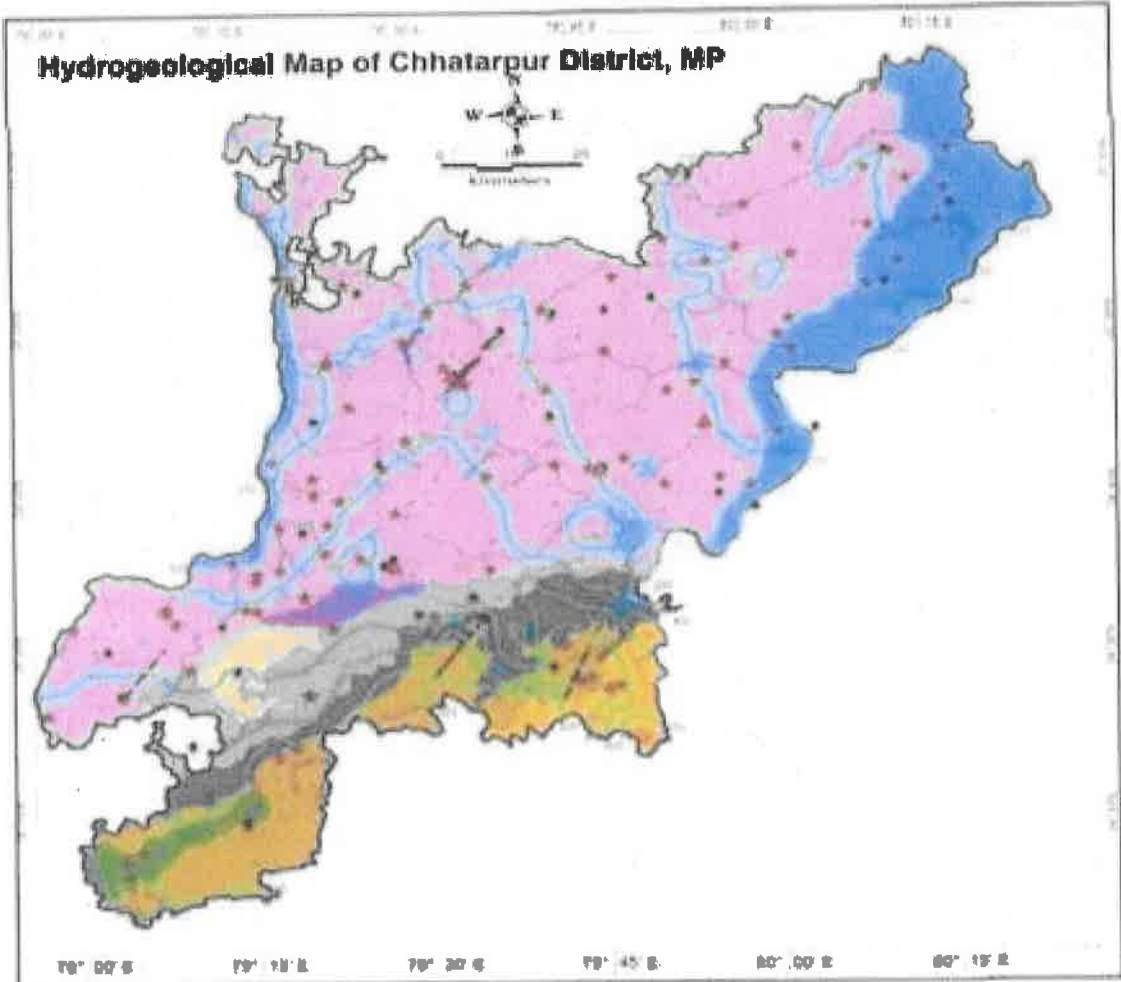
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Hydrogeology Map

Hydrogeological Map of Chhatarpur District, MP



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Formation	Lithology	Ground Water Potential (Dps)
Alwar	Sand, Silt and Clay	10 - 15
Deccan Trap	Lower flows having ground water of Secondary Porosity	4 - 5
Harwa BM (Vindhyan)	Hard, compact, well jointed sand-stone with secondary porosity	1 - 2
Kanva Sil (Vindhyan)	Hard sand with widely spaced shales	1 - 3
Sandstone (Vindhyan)	Siltstone, Sandstone and limestone fragments and jointed shales with schistosity	1 - 5
Upper Bawars	Fragile quartzite, Shale with angular fragments of quartzite & shale	1 - 1
Middle Bawars	Limestone with well developed schistosity	2 - 5
Lower Bawars	Quartzite - Hard, compact & jointed	1 - 1
Quartz	NE-SW trending ridges of quartzite transmit granite bodies	1 - 1
Granite	Coarse medium to coarse grained highly jointed with weathered portion yielding moderate amount of GW	1 - 5

• TNE Layer		River		Fault
• Production		Water body		GW Flow Direction

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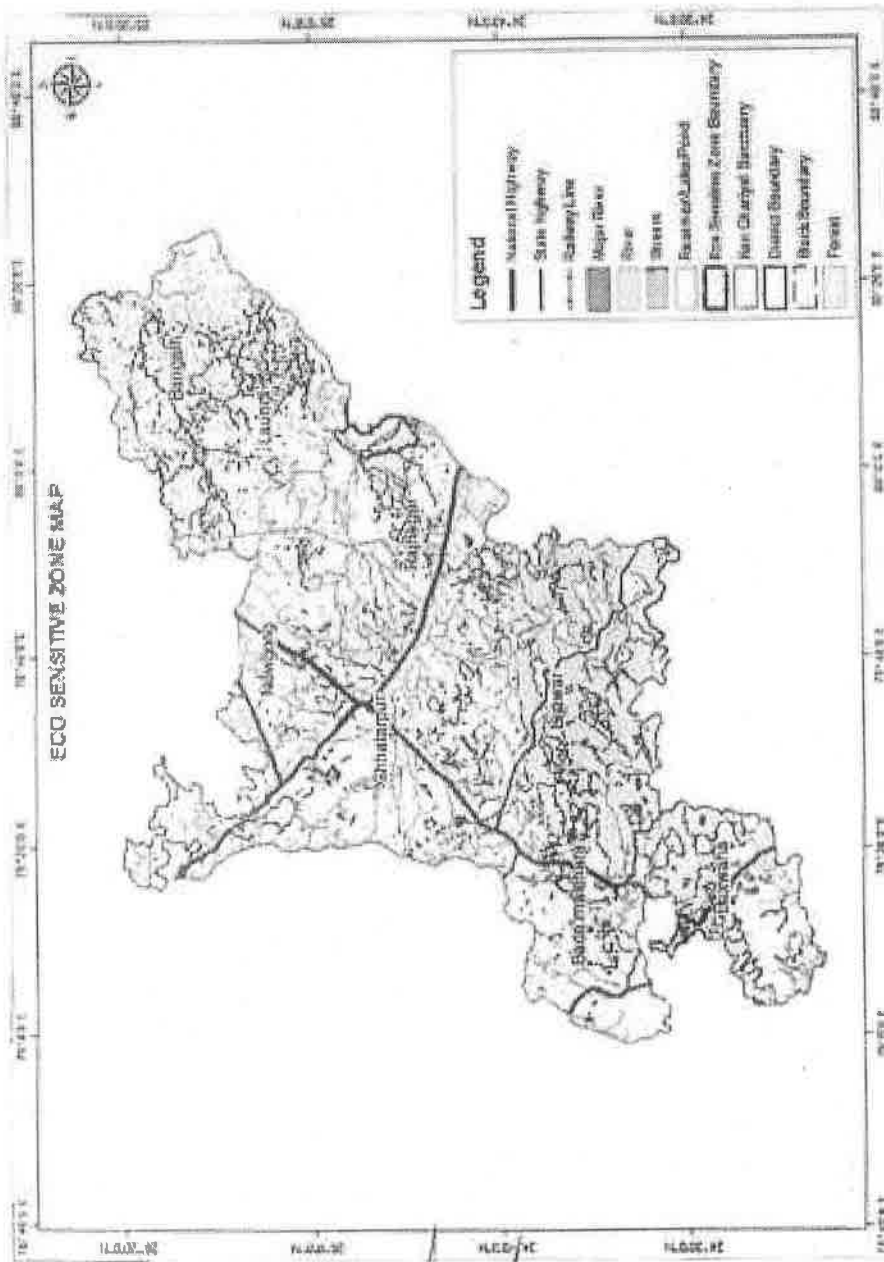
Details of Catchment Area

Sr.No.	Properties	Dhasan River Basin	Ken River Basin	Betwa River Basin
1	Catchment Area up to Exit spot of Particular District	9029 sq. km	25270 sq. km	145 sq. km
2	Catchment Area of Particular District	2471 sq. km	6098 sq. km	145 sq. km
3	Length of the Catchment Area	215.86 km	247.38 km	20.57 km
4	Length of the Catchment Area of Particular District	121.77 km	186.92 km	20.57 km
5	Altitude at Origin of the River	578 m	443 m	221 m
6	Altitude at Entrance of the Particular District	342m	269 m	Origin from District
7	Altitude at Exit of the Particular District	167m	109 m	195 m

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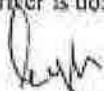
Prepared by: *[Signature]*
 District Survey Authority, Chhatrapur
 2010

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(14) Details of Eco – Sensitive Area, if any, in the District

The eco sensitive zone that is under threat is the dense and thick forest of Buxwaha. Recently, there have been proposals to demarcate the forest as protected, as the forest is declining rapidly. Diamond mines have been proposed in and near the forests of Buxwaha. Another significant eco sensitive zone is Ken Gharial Wildlife Sanctuary formed for conservation of gharial. Ganga wildlife sanctuary is a mini wildlife sanctuary near Ken River in Chhatarpur. Part of Panna National Park comes under Chhatarpur District. It is conserved for the protection of Tiger. It is also known for deer and antelope.

The biodiversity may severely threatened by negative effects as the aquatic and riparian fauna and flora are not adapted to cope with excessive rates of erosion and sedimentation which might become a regular practice when the mining of sand in river is done.


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(15) IMPACT ON ENVIRONMENT DUE TO SAND MINING ACTIVITY
AND MITIGATION MEASURES

1.0 INTRODUCTION

Environmental Management Plan is a guiding document for environmental impacts associated with the proposed projects. It is a guiding document for management of good environmental condition on the site & surrounding of the proposed sand mine. The Environmental Management Plan (EMP) has been formulated and integrated with the sand mine planning keeping in view overall scientific development of local habitat and the adverse impact that may be caused due to the sand mining operation. The Mining activities are no doubt essential for development & for providing better standard of life. But, there are environmental concerns related to mining activities. In order to maintain the balance in eco-system, legislations have been enacted, compliance of which would not only allow sustainable development for current needs but also leave options open for the posterity.

A scientific assessment of these impacts those are likely to influence the existing environmental scenario is needed. This could also facilitate in formulating a suitable environmental management plan depicting all mitigation measures. It can help in implementing the project in an eco-friendly manner.

The project activities influencing the following environmental attributes have been studied and their impacts on the following attributes have been assessed.

- Air Environment
- Water Environment
- Land Environment
- Noise Environment
- Biological Environment
- Socio-Economic Environment


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2.0 OBJECTIVES

- To ensure that sand extraction will be carried out in an eco friendly manner.
- To reduce the potential impacts of proposed sand mining extraction operations on the stream and riparian habitats of streams, river bank stability etc.
- To provide employment opportunities to the locals
- To restore the ecosystem to the maximum extent possible.
- Mining depth should be restricted to 3 meters and distance from the bank should be $\frac{1}{4}$ th of river width and should not be less than 7.5 meters

3.0 ANTICIPATED IMPACTS AND MITIGATION MEASURES

The pollution potential of the proposed project, its possible impacts on the surrounding environment during pre-operational and operational phases and the necessary management actions proposed for control and abatement of pollution are furnished hereunder.

AIR ENVIRONMENT

Anticipated impacts-

(A) Due to Haul road/ Access Road

Plying of trucks from public road to river sand collection points needs access roads. Majority of such access roads are the same existing roads/tracks being used by pedestrians/cart owners. Movement of heavy vehicles sometimes causes problems to cattle post, agriculture land, and human, habitations due to dust, noise and movement of public. These environmental problems are felt more as the area is rural in nature.

(B) Due to Mining process

Air pollution is likely to be caused at various stages of sand mining operations such as excavation, loading of material. Most of the dust will be generated from loading. This dust becomes air borne and gets carried away to surrounding areas. The impact on air is mainly localized in nature as the dust particles are not carried to longer distances and the effect is felt within the core zone of the project involving active Sand mining operations.


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Mitigation Measures-

- (A) Movement of the vehicles on the road will be increased; however, unmetalled road in the mining area will be sprinkled with water at regular intervals. In addition to prevent spillage by trucks over loading should be controlled along with speed limit. Water will be sprinkled on regular basis to control the dust generation.
- (B) For Fugitive Dust Emission:
- To avoid fugitive dust emissions at the time of excavation, regular sprinkling of water will be done on regular basis.
 - Sand is transported to the sites by road through trucks covered by tarpaulin sheets.
 - To minimize the vehicular pollution from the sand transporting vehicles, the following conditions are insisted to permit the vehicles of the transporters:
 - The vehicles should have pollution control certificate (PUC) issued by appropriate authorities.
 - Regular maintenance of transport vehicles and monitoring of vehicular emission levels at periodical intervals.
 - Green belt development along the haul roads, which will act as pollution sink.


WATER ENVIRONMENT

Anticipated impacts-

As the project activity is carried out in the dry part of river bed, none of the project activities will affect the water environment or riverine habitats. Project activities will not have any adverse effect on the physical components of the environment and therefore may not have any effect on there charge of ground waters or affect the water quality. Monitoring of water quality will be checked yearly.

Mitigation measures

- Mining is avoided during the monsoon season and at the time of floods. This will help in replenishment of sand in the river bed.


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- Mining below subterranean water level will be avoided as safe guard against environmental contamination and over exploitation of resources.
- River stream will not be diverted to form in active channels.
- Utmost care will be taken to minimize or control leakage vehicles to be used for sand transportation.
- The washing of trucks in the river will be avoided.
- The contractor will follow all guidelines and rules for proper and scientific method of mining during the period of extracting the sand.

LAND ENVIRONMENT

The type of mining and the characteristics of the particular mineral deposit both affect the degree to which mining disturbs the landscape. Sand Mining and allied activities will be done in the fluvial plain formed by river meandering. Mining of sand may cause a few environmental degradations.

Anticipated impacts:

- Damage of river bank due to access ramps to river bed, may cause soil erosion.
- Destruction of river bank hinterland and ecological due to extraction of sand by probability of damage to the flood control bunds (built along the river side) due to heavy movements of vehicles over the bund to approach the mine are and further during transportation for sand from the mine area.
- Disposal of packing material, carried by the workers, would not be allowed. This packing material would include used sachet/ gutkha /pan masala pouches.
- Movement of heavy vehicles sometimes cause problems to agricultural land, human habitations, borehole users due to dust, noise and it also causes traffic hazards.
- Surface degradation due to road network.


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Mitigation measures:

- Safety distance will be left from both the bank of the river. (As guided by, MOEFCC guidelines on "Sustainable sand mining guidelines" & Geological Survey of India).
- No foreign material like polythene bag, jute bag and useless articles should be allowed to remain/spill in river bed and catchment area, or no pits/pockets will be allowed to be filled with such material.
- Minimum number of access roads to river bed for which cutting of river banks will be avoided and ramps are to be maintained.
- Care will be taken to ensure that ponding is not formed in the river bed.
- Mining will not exceeds beyond the allowed extraction capacity.
- Green belt will be developed along the haul road and the bank of rivers of mine premises and near the sand mining site. While selecting the plant species, preference will be given for planting native species of the area.

NOISE ENVIRONMENT

Anticipated impacts

Noise environment in this project will be affected only by the equipment at the site and vehicular transportation. Since, slight increase in noise levels can be expected.

Mitigation measures

- Minimum use of Horns at the village area.
- Timely maintenance of vehicles and their silencers to minimize vibration and Sound.
- Phasing out of old and worn out trucks.
- Provision of green belts along the road networks.
- Care will be taken to produce minimum sound during sand loading.
- Use of Backhoe and ear plugs may be provided to protect the labors working at the site.

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BIOLOGICAL ENVIRONMENT

Anticipated impacts:

a) Aquatic environment

Proposed mining will not have any possibility of disturbance of aquatic life as it is a dry bed.

b) Flora and Fauna

The mining activity will have insignificant affect on the existing flora and fauna. The project area is surrounded with agricultural land. It was found that the sand mining activity will not have any significant impact on the biological environment of the region.

Mitigation measures

- Improvement in river bank stability.
- Large woody debris in the riparian zone will be left undisturbed or replaced when moved and not be burnt.
- Vegetative debris will not be stored within the mine lease area.
- Operation and storage of heavy vehicles within riparian habitat will be restricted.
- Covering of loaded vehicles to reduce dust emission, which may harm surrounding agricultural crops and other plant species.
- Conservation of biological diversity of plants, birds and animals.
- Greenbelt Development and Bio-Diversity Preservation.
- Plantation activities will be carried out at the bank of the river and along the haul roads.
- This activity will help for maintaining ecology and environment of the area.

GREENBELT DEVELOPMENT

- The implementation for development of green belt will be of paramount importance as it will not only add up as an aesthetic feature, but also act as a pollution sink.
- The species to be grown in the area should be dust tolerant and fast growing species so that permanent green belt is created.

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- To stabilize the river bank erosion the plantation of native species of that area along the river bank.
- Apart from the green belt and aesthetic plantation for elimination fugitive of emission and noise control, all other plantation efforts shall be decided and executed with the assistance and co-operation of the local community.

The following species may be considered primarily for plantation best suited for the prevailing climatic condition in the area:

- Neem (*Azadirachta indica*)
- Sissoo (*Dalbergia sissoo*)
- Mango (*Mangifera indica*)
- Peepal (*Ficus religiosa*)
- Bargad (*Ficus benghalensis*)
- Chiro (*Holoptelea integrifolia*)
- Karanj (*Millettia pinnata*)
- Khirni (*Manilkara hexandra*)
- Amaltas (*Cassia fistula*)
- Jungle Jalebi (*Pithecellobium dulce*)
- Amla (*Phyllanthus emblica*)
- Bel (*Aegle marmelos*)

SOCIO-ECONOMIC ENVIRONMENT

- Social welfare program like provision of medical facilities educational facilities, water supply for the employees as well as for nearby villagers will be taken.
- A well laid plan for employment of the local people has been prepared by giving priority to local people.
- Supplementing Govt. efforts in health monitoring camps, social welfare and various awareness programs among the rural population.
- Assisting social forestry program.


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- Adoption of villages for general development.
- Development of facilities within villages like roads, etc.
- The management will contribute for the overall economy and social development of the area.
- In the recruitment process of the organization, local people will be given preference.

Anticipated impacts and evaluation:

The project activities shall not have any adverse impacts on any of the common property resources of the village communities, as the sand mine lease area is not being used for any purpose by any section of the society in this region. There is no R & R involvement in this project. There is no land acquisition in this project.


- The results of the field survey conducted to understand the knowledge and perception of the people living around the project area gives a clear idea about the need for the project.
- A major portion of the houses in the study area are semi- pucca type structures. The water source to these areas is from the municipal connection and private bore wells and wells. The awareness level regarding the proposed mining activity is very high.
- The proposed mining activity is expected to provide stimulus to socio-economic activities in the region and thereby accelerate further development processes.

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Sand Mining Area details based on Pre Monsoon				
SL. No	Name of Mines	Total Area in Sq.M.	Depth in meters	Sand Mines Quantity cubic meters
1	रामपुर	31000	2.5	77,500
2	पड़वार-1	100000	2.5	2,50,000
3	मवईघाट-1	140000	2.5	3,50,000
4	बख्खा	39900	2.5	99750
5	रेवना	21500	2.5	53750
6	परेई-1	50000	2.5	1,25,000
7	पड़वार-2	60000	2.5	1,50,000
8	मवईघाट-2	70000	2.5	1,75,000
9	परेई-2	100000	2.5	2,50,000
10	रामपुरघाट	40000	2.5	1,00,000
11	भारखंद-3	40000	2.5	1,00,000
12	कन्देला	15000	2.5	37500
13	गोयरा-1	40000	2.5	1,00,000
14	भारीखेड़ा	100000	2.5	2,50,000
15	महनाया	40000	2.5	1,00,000
16	अजीतपुर	40000	2.5	1,00,000
17	भारखंद-4	100000	2.5	2,50,000
18	गोयरा-2	100000	2.5	2,50,000


19	फततेपुर	20000	2.5	50,000
20	बीरारसोत खदान	52000	2.5	1,30,000
21	नेहवा	140000	2.5	3,50,000
22	बारबंद नं० 1	120000	2.5	3,00,000
23	बारबंद नं० 2	120000	2.5	3,00,000
24	लसागरया	126000	2.5	3,15,000
25	बजारी	123000	2.5	3,07,500
26	हरई	125000	2.5	3,12,500
27	बघारी-1	115000	2.5	2,87,500
28	सूरजपुर	40000	2.5	1,00,000
29	डिगौला	40000	2.5	1,00,000
30	सरुकर	40000	2.5	1,00,000
31	बघारी नं० 2	80000	2.5	2,00,000
32	पुरा	28000	2.5	70,000
33	डिगौनी	40000	2.5	1,00,000
34	कुरेला	40000	2.5	1,00,000
35	कुटिया	21000	2.5	52,500
36	बगमऊ	42000	2.5	1,05,000
37	करारागंज	70000	2.5	1,75,000
38	टीला-2	60000	2.5	1,50,000
39	अलीपुरा-2	70000	2.5	1,75,000


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40	टीला-1	40000	2.5	1,00,000
41	अलीपुरा-1	40000	2.5	1,00,000
42	मीरा (सिजवाडा)	35200	2.5	88000
43	नारायणपुरा	20000	2.5	50000
44	सिंग्रामपुरा	20000	2.5	50000
45	अमरपुरा	15000	2.5	37500
46	दिदोल	25000	2.5	62500
47	रामपुर (कुरी)	14000	2.5	35000
48	कवारी	15000	2.5	37500
Total Area		28,63,600	Total Volume	71,59,000


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Sand Mining Area details based on Post Monsoon				
SL. No	Name of Mines	Total Area in Sq.M.	Standard Depth in meters	Sand Mines Quantity cubic meters
1	रामपुर	31000	3	93000
2	पड़वार-1	100000	3	3,00,000
3	मवईघाट-1	140000	3	4,20,000
4	बरुआ	39900	3	1,19,700
5	रेवना	21500	3	64,500
6	परेई-1	50000	3	1,50,000
7	पड़वार-2	60000	3	1,80,000
8	मवईघाट-2	70000	3	2,10,000
9	परेई-2	100000	3	3,00,000
10	रामपुरघाट	40000	3	1,20,000
11	बारवंद-3	40000	3	1,20,000
12	कन्देला	15000	3	45,000
13	गोयरा-1	40000	3	1,20,000
14	बारीखेड़ा	100000	3	3,00,000
15	महवाया	40000	3	1,20,000
16	जजीतपुर	40000	3	1,20,000
17	बारवंद-4	100000	3	3,00,000


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18	गोयरा-2	100000	3	3,00,000
19	परमरौपुर	20000	3	60,000
20	धीरासरेत खदान	52000	3	1,56,000
21	नेहरा	140000	3	4,20,000
22	भारभंद नं० 1	120000	3	3,60,000
23	भारभंद नं० 2	120000	3	3,60,000
24	लसगरया	126000	3	3,78,000
25	बंजारी	123000	3	3,69,000
26	हरई	125000	3	3,75,000
27	बघारी-1	115000	3	3,45,500
28	सूरजपुर	40000	3	1,20,000
29	हिनीता	40000	3	1,20,000
30	सहकर	40000	3	1,20,000
31	बघारी नं० 2	80000	3	2,40,000
32	सुरा	28000	3	84,000
33	डिगीनी	40000	3	1,20,000
34	कुरेला	40000	3	1,20,000
35	कुटिया	21000	3	63,000
36	बगमळ	42000	3	1,26,000
37	करासगंज	70000	3	2,10,000


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38	टीला-2	60000	3	1,80,000
39	अलीपुरा-2	70000	3	2,10,000
40	टीला-1	40000	3	1,20,000
41	अलीपुरा-1	40000	3	1,20,000
42	मीरा (सिजवाहा)	35200	3	1,05,600
43	नारायणपुरा	20000	3	60,000
44	सिंधामपुरा	20000	3	60,000
45	अमरपुरा	15000	3	45,000
46	दिदोल	25000	3	75,000
47	रामपुर (कुरी)	14000	3	42,000
48	कवारी	15000	3	45,000
Total Area		2863600	Total Volume	85,90,800


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Drainage System with description of main Rivers

S. NO.	Name of the River	Area Drained (Sq. Km.)	Area Drained in the District (Sq. Km.)	Percentage of Area Drained in the District
1	Ken River	25270	6098	24 % (approx)
2	Dhasan River	9029	2471	27 % (approx)

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	Ken River	186.92	near the Village Ahirgawan in Jabalpur	550 m
2	Dhasan River	121.77	Begumganj, Raisen	578 m

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S L N o	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in kilometers)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in m ²) Area (rounded) x Depth	Total Sand Potential in m ³ Area x Depth = Volume	Mineable mineral potential (in m ³) (60% of total mineral potential) = Volume x 60/100
1	Kail River Village - Rampur Khasra No. - 306/1	0.42	73.8095	31000 x 3	93000	55800
2	Ken River Village - Padwar Khasra No. - 1540/1	0.84	119.048	100000 x 3	3,00,000	180000
3	Ken River Village - Mawaighat Khasra No. - 396/2	1.08	129.63	140000 x 3	4,20,000	252000
4	Ken River Village - Barua Khasra No. - 609	0.30	133	39900 x 3	1,19,700	71820
5	Kail River Village - Revana Khasra No. - 1298/1	0.35	61.4285	21500 x 3	64,500	38700
6	Ken River Village - Parei Khasra No. - 613/1	0.38	131.579	50000 x 3	1,50,000	90000
7	Ken River Village - Padwar Khasra No. - 1540/1	0.51	117.647	60000 x 3	1,80,000	108000

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8	Ken River Village - Mawaighat Khasra No. - 39	0.620	112.9032	70000 x 3	2,10,000	126000
9	Ken River Village - Parei Khasra No. - 561	0.55	181.819	100000 x 3	3,00,000	180000
10	Ken River Village - Rampurghat Khasra No. - 2	0.20	200	40000 x 3	1,20,000	72000
11	Ken River Village - Barbandh Khasra No. - 472/2	0.29	137.931	40000 x 3	1,20,000	72000
12	Ken River Village - Kandela Khasra No. - 48	0.20	75	15000 x 3	45,000	27000
13	Ken River Village - Goyra Khasra No. - 2531/13	0.29	137.931	40000 x 3	1,20,000	72000
14	Ken River Village - Barikheda Khasra No. - 269/231	0.63	158.7901	100000 x 3	3,00,000	180000
15	Ken River Village - Mahwaya Khasra No. - 1163	0.22	181.818	40000 x 3	1,20,000	72000
16	Ken River Village - Ajeetpur Khasra No. - 656	0.181	220.9945	40000 x 3	1,20,000	72000

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17	Ken River Village - Barbandh Khasra No. - 472/2	0.68	147.059	100000 x 3	3,00,000	180000
18	Ken River Village - Goyra Khasra No. - 2531/13	0.43	232.559	100000 x 3	3,00,000	180000
19	Ken River Village - Fattehpur Khasra No. - 2/2	0.21	95.238	20000 x 3	60,000	36000
20	Ken River Village - Dhuarara Khasra No. - 332	0.35	148.5715	52000 x 3	1,56,000	93600
21	Ken River Village - Nehra Khasra No. - 697/1	1.48	94.5945	140000 x 3	4,20,000	2,52,000
22	Ken River Village - Barbandh Khasra No. - 472/2	0.78	153.846	120000 x 3	3,60,000	2,16,000
23	Ken River Village - Barbandh Khasra No. - 472/2	0.78	153.846	120000 x 3	3,60,000	2,16,000
24	Ken River Village - Lasgarya Khasra No. - 405	0.91	138.461	126000 x 3	3,78,000	2,26,800

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25	Ken River Village – Banjari Khasra No. – 730	0.98	125.51	123000 x 3	3,69,000	2,21,400
26	Ken River Village – Harrai Khasra No. – 277/1	0.85	147.059	125000 x 3	3,75,000	2,25,000
27	Ken River Village – Baghari Khasra No. – 854	0.95	121.053	115000 x 3	3,45,500	2,07,000
28	Urmil River Village – Surajpur Khasra No. – 818	0.91	43.956	40000 x 3	1,20,000	72000
29	Ken River Village – Hinauta Khasra No. – 495/2	0.30	133.3334	40000 x 3	1,20,000	72000
30	Ken River Village – Sadkar Khasra No. – 1400	0.35	114.2856	40000 x 3	1,20,000	72000
31	Ken River Village – Baghari Khasra No. – 854	0.71	112.676	80000 x 3	2,40,000	1,44,000
32	Urmil River Village – Sura Khasra No. – 257	0.78	35.8974	28000 x 3	84,000	50400
33	Urmil River Village – Digaini Khasra No. – 917,1011	0.88	45.4545	40000 x 3	1,20,000	72000

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34	Urmil River Village - Kurela Khasra No. - 2/1011	0.87	45.977	40000 x 3	1,20,000	72000
35	Banne River Village - Kutia Khasra No. - 1	0.71	29.5774	21000 x 3	63,000	37800
36	Urmil River Village - Bagmau Khasra No. - 1063	0.93	45.1613	42000 x 3	1,26,000	75600
37	Dhasan River Village - Kararaganj Khasra No. - 1	0.76	92.1053	70000 x 3	2,10,000	1,26,000
38	Dhasan River Village - Tila Khasra No. - 574	0.55	109.0909	60000 x 3	1,80,000	108000
39	Dhasan River Village - Alipura Khasra No. - 2113	0.58	120.5896	70000 x 3	2,10,000	1,26,000
40	Dhasan River Village - Tila Khasra No. - 574	0.44	90.909	40000 x 3	1,20,000	72000
41	Dhasan River Village - Alipura Khasra No. - 2113	0.32	125	40000 x 3	1,20,000	72000

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42	Kathan River Village - Morra (Sijwaha) Khasra No. - 128	0.97	36.2887	35200 x 3	1,05,500	63360
43	Banne River Village - Narayanpura Khasra No. - 189,658	0.74	27.027	20000 x 3	60,000	36000
44	Banne River Village - Singrampur Khasra No. - 53,369	0.86	23.2558	20000 x 3	60,000	36000
45	Banne River Village - Amarpura Khasra No. - 332	0.50	30	15000 x 3	45,000	27000
46	Tarper River Village - Didol Khasra No. - 818	0.40	62.5	25000 x 3	75,000	45000
47	Tarper River Village - Rampur (Kurra) Khasra No. - 701	0.69	20.2899	14000 x 3	42,000	25200
	Burha Nala Village - Kadari Khasra No. - 672	0.93	16.129	15000 x 3	45,000	27000
	Total	29.641 (Approx)	191.9 (Approx)	2863600 x 3	8590800	5154480


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Table No. 27 SAND MINEABLE MINERAL POTENTIAL DATA 60%

S. No.	Name of Mines	Total Area in Sq.M.	Standard Depth in meters	Sand Mines Quantity cubic meters	Mineable mineral potential (In m ³ -60 % of total mineral potential)	Name of River
1	रामपुर	31000	3	93000	55800	Kail River
2	पडवार-1	100000	3	3,00,000	180000	Ken River
3	मवईघाट-1	140000	3	4,20,000	252000	Ken River
4	बरुआ	39900	3	1,19,700	71820	Ken River
5	रेवना	21500	3	64,500	38700	Kail River
6	परई-1	50000	3	1,50,000	90000	Ken River
7	पडवार-2	60000	3	1,80,000	108000	Ken River
8	मवईघाट-2	70000	3	2,10,000	126000	Ken River
9	परई-2	100000	3	3,00,000	180000	Ken River
10	रामपुरघाट	40000	3	1,20,000	72000	Ken River
11	बारबंद-3	40000	3	1,20,000	72000	Ken River
12	कन्देला	15000	3	45,000	27000	Ken River
13	गोधरा-1	40000	3	1,20,000	72000	Ken River
14	बारीखेड़ा	100000	3	3,00,000	180000	Ken River


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15	महवाया	40000	3	1,20,000	72000	Ken River
16	अजीतपुर	40000	3	1,20,000	72000	Ken River
17	बारबंद-4	100000	3	3,00,000	180000	Ken River
18	गोयरा-2	100000	3	3,00,000	180000	Ken River
19	फततेपुर	20000	3	60,000	36000	Ken River
20	धीरारसत खदान	52000	3	1,56,000	93600	Ken River
21	नेहरा	140000	3	4,20,000	2,52,000	Ken River
22	बारबंद नं० 1	120000	3	3,60,000	2,16,000	Ken River
23	बारबंद नं० 2	120000	3	3,60,000	2,16,000	Ken River
24	लसगरया	126000	3	3,78,000	2,26,800	Ken River
25	बजारी	123000	3	3,69,000	2,21,400	Ken River
26	हरई	125000	3	3,75,000	2,25,000	Ken River
27	बघारी-1	115000	3	3,45,500	2,07,000	Ken River
28	सूरजपुर	40000	3	1,20,000	72000	Urmil River
29	हिनीता	40000	3	1,20,000	72000	Ken River
30	सककर	40000	3	1,20,000	72000	Ken River
31	बघारी नं० 2	80000	3	2,40,000	1,44,000	Ken River

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32	सुरा	28000	3	84,000	50400	Urmil River
33	डिगोनी	40000	3	1,20,000	72000	Urmil River
34	कुरेला	40000	3	1,20,000	72000	Urmil River
35	कुटिया	21000	3	63,000	37800	Banne River
36	सामक	42000	3	1,26,000	75600	Urmil River
37	करारगंज	70000	3	2,10,000	1,26,000	Dhasan River
38	टीला-2	60000	3	1,80,000	108000	Dhasan River
39	अलीपुरा-2	70000	3	2,10,000	1,26,000	Dhasan River
40	टीला-1	40000	3	1,20,000	72000	Dhasan River
41	अलीपुरा-1	40000	3	1,20,000	72000	Dhasan River
42	मौरा (सिजवाहा)	35200	3	1,05,600	63360	Kathan River
43	नारायणपुर I	20000	3	60,000	36000	Banne River
44	सिंगमपुरा	20000	3	60,000	36000	Banne River
45	अनपुरा	15000	3	45,000	27000	Banne River
46	दिदोल	25000	3	75,000	45000	Tarper River
47	रामपुर (कुरा)	14000	3	42,000	25200	Tarper River
48	कदारी	15000	3	45,000	27000	Burha Nala
Total				2863600	5154480	

• No River Boulder and Bajri mines in Chhatarpur District.

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Details of Annual Deposition						
S L. N O	Name of Mines	Total Area in Sq.M.	Standard Depth in meters	Sand Mines Quantity cubic meters	Mineable mineral potential (in m ³ -60 % of total mineral potential)	Name of River
1	रामपुर	31000	3	93000	55800	Kail River
2	पड़वार-1	100000	3	3,00,000	180000	Ken River
3	नवईघाट-1	140000	3	4,20,000	252000	Ken River
4	बरुआ	39900	3	1,19,700	71820	Ken River
5	रेवना	21500	3	64,500	38700	Kail River
6	परेई-1	50000	3	1,50,000	90000	Ken River
7	पड़वार-2	60000	3	1,80,000	108000	Ken River
8	नवईघाट-2	70000	3	2,10,000	126000	Ken River
9	परेई-2	100000	3	3,00,000	180000	Ken River
10	रामपुरघाट	40000	3	1,20,000	72000	Ken River
11	बारबट-3	40000	3	1,20,000	72000	Ken River
12	कन्येला	15000	3	45,000	27000	Ken River

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13	गोयरा-1	40000	3	1,20,000	72000	Ken River
14	बारीखेड़ा	100000	3	3,00,000	180000	Ken River
15	महवाया	40000	3	1,20,000	72000	Ken River
16	अजीतपुर	40000	3	1,20,000	72000	Ken River
17	बारबंद-4	100000	3	3,00,000	180000	Ken River
18	गोयरा-2	100000	3	3,00,000	180000	Ken River
19	फततेपुर	20000	3	60,000	36000	Ken River
20	धीरारोत खदान	52000	3	1,56,000	93600	Ken River
21	नेहरा	140000	3	4,20,000	2,52,000	Ken River
22	बारबंद नं० 1	120000	3	3,60,000	2,16,000	Ken River
23	बारबंद नं० 2	120000	3	3,60,000	2,16,000	Ken River
24	लसागरया	126000	3	3,78,000	2,26,800	Ken River
25	बंजारी	123000	3	3,69,000	2,21,400	Ken River
26	हरई	125000	3	3,75,000	2,25,000	Ken River
27	बघारी-1	115000	3	3,45,500	2,07,000	Ken River
28	सूरजपुर	40000	3	1,20,000	72000	Urmil River
29	हिनीता	40000	3	1,20,000	72000	Ken River
30	सडकर	40000	3	1,20,000	72000	Ken River

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बघारी नं०	80000	3	2,40,000	1,44,000	Ken River
31	80000	3	2,40,000	1,44,000	Ken River
32	28000	3	84,000	50400	Urmil River
33	40000	3	1,20,000	72000	Urmil River
34	40000	3	1,20,000	72000	Urmil River
35	21000	3	63,000	37800	Banne River
36	42000	3	1,26,000	75600	Urmil River
37	70000	3	2,10,000	1,26,000	Dhasan River
38	60000	3	1,80,000	108000	Dhasan River
39	70000	3	2,10,000	1,26,000	Dhasan River
40	40000	3	1,20,000	72000	Dhasan River
41	40000	3	1,20,000	72000	Dhasan River
42	35200	3	1,05,600	63360	Kathan River
43	20000	3	60,000	36000	Banne River
44	20000	3	60,000	36000	Banne River
45	15000	3	45,000	27000	Banne River
46	25000	3	75,000	45000	Tarper River
47	14000	3	42,000	25200	Tarper River
48	15000	3	45,000	27000	Burha Nala
	Total		2863600	5154480	

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Details of the Concession area in the district						
S L N o	Name of River or Stream	Length of area recommended for mineral concession (in kilometers)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in m ²) Area (rounded) x Depth	Total Sand Potential in m ³ Area x Depth = Volume	Mineable mineral potential (in m ³ (60% of total mineral potential) = Volume x 60/100
	Portion of the River or Stream Recommended for Mineral Concession					
1	Kail River Village – Rampur Khasra No. – 306/1	0.42	73.8095	31000 x 3	93000	55800
2	Ken River Village – Padwar Khasra No. – 1540/1	0.84	119.048	100000 x 3	3,00,000	180000
3	Ken River Village – Mawaighat Khasra No. – 396/2	1.08	129.63	140000 x 3	4,20,000	252000
4	Ken River Village – Barua Khasra No. – 609	0.30	133	39900 x 3	1,19,700	71820
5	Kail River Village – Revana Khasra No. – 1298/1	0.35	61.4285	21500 x 3	64,500	38700
6	Ken River Village – Parei Khasra No. – 613/1	0.38	131.579	50000 x 3	1,50,000	90000

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7	Ken River Village - Padwar Khasra No. - 1540/1	0.51	117.647	60000 x 3	1,80,000	108000
8	Ken River Village - Mawaighat Khasra No. - 39	0.620	112.9032	70000 x 3	2,10,000	126000
9	Ken River Village - Parei Khasra No. - 561	0.55	181.819	100000 x 3	3,00,000	180000
10	Ken River Village - Rampurghat Khasra No. - 2	0.20	200	40000 x 3	1,20,000	72000
11	Ken River Village - Barbandh Khasra No. - 472/2	0.29	137.931	40000 x 3	1,20,000	72000
12	Ken River Village - Kandela Khasra No. - 48	0.20	75	15000 x 3	45,000	27000
13	Ken River Village - Goyra Khasra No. - 2531/13	0.29	137.931	40000 x 3	1,20,000	72000
14	Ken River Village - Barikheda Khasra No. - 269/231	0.63	158.7301	100000 x 3	3,00,000	180000
15	Ken River Village - Mahwaya Khasra No. - 1163	0.22	181.818	40000 x 3	1,20,000	72000

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16	Ken River Village - Ajeetpur Khasra No. - 656	0.181	220.9945	40000 x 3	1,20,000	72000
17	Ken River Village - Barbandh Khasra No. - 472/2	0.68	147.059	100000 x 3	3,00,000	180000
18	Ken River Village - Goyra Khasra No. - 253/1/13	0.43	232.559	100000 x 3	3,00,000	180000
19	Ken River Village - Fattehpur Khasra No. - 2/2	0.21	95.238	20000 x 3	60,000	36000
20	Ken River Village - Dhuarara Khasra No. - 332	0.35	148.5715	52000 x 3	1,56,000	93600
21	Ken River Village - Nehra Khasra No. - 697/1	1.48	94.5945	140000 x 3	4,20,000	2,52,000
22	Ken River Village - Barbandh Khasra No. - 472/2	0.78	153.846	120000 x 3	3,60,000	2,16,000
23	Ken River Village - Barbandh Khasra No. - 472/2	0.78	153.846	120000 x 3	3,60,000	2,16,000

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24	Ken River Village - Lasgaya Khasra No. - 405	0.91	138.461	126000 x 3	3,78,000	2,26,800
25	Ken River Village - Banjari Khasra No. - 730	0.98	125.51	123000 x 3	3,69,000	2,21,400
26	Ken River Village - Hamrai Khasra No. - 277/1	0.85	147.059	125000 x 3	3,75,000	2,25,000
27	Ken River Village - Baghari Khasra No. - 854	0.95	121.053	115000 x 3	3,45,500	2,07,000
28	Urmil River Village - Surajpur Khasra No. - 818	0.91	43.956	40000 x 3	1,20,000	72000
29	Ken River Village - Hinauta Khasra No. - 495/2	0.30	133.3334	40000 x 3	1,20,000	72000
30	Ken River Village - Sadkar Khasra No. - 1400	0.35	114.2856	40000 x 3	1,20,000	72000
31	Ken River Village - Baghari Khasra No. - 854	0.71	112.676	80000 x 3	2,40,000	1,44,000
32	Urmil River Village - Sura Khasra No. - 257	0.78	35.8974	28000 x 3	84,000	50400

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33	Urmil River Village - Digaumi Khasra No. - 917,1011	0.88	45.4545	40000 x 3	1,20,000	72000
34	Urmil River Village - Kurela Khasra No. - 2/1011	0.87	45.977	40000 x 3	1,20,000	72000
35	Banne River Village - Kutia Khasra No. - 1	0.71	29.5774	21000 x 3	63,000	37800
36	Urmil River Village - Bagmau Khasra No. - 1063	0.93	45.1613	42000 x 3	1,26,000	75600
37	Dhasan River Village - Kararaganj Khasra No. - 1	0.76	92.1053	70000 x 3	2,10,000	1,26,000
38	Dhasan River Village - Tila Khasra No. - 574	0.55	109.0909	60000 x 3	1,80,000	108000
39	Dhasan River Village - Alipura Khasra No. - 2113	0.58	120.6896	70000 x 3	2,10,000	1,26,000
40	Dhasan River Village - Tila Khasra No. - 574	0.44	90.909	40000 x 3	1,20,000	72000
41	Dhasan River Village - Alipura Khasra No. - 2113	0.32	125	40000 x 3	1,20,000	72000


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42	Kathan River Village - Morra (Sijwahha) Khasra No. - 128	0.97	36.2887	35200 x 3	1,05,600	63360
43	Banne River Village - Narayanpura Khasra No. - 189,658	0.74	27.027	20000 x 3	60,000	36000
44	Banne River Village - Singrampur Khasra No. - 53,369	0.86	23.2558	20000 x 3	60,000	36000
45	Banne River Village - Amarpura Khasra No. - 332	0.50	30	15000 x 3	45,000	27000
46	Tarper River Village - Didol Khasra No. - 818	0.40	62.5	25000 x 3	75,000	45000
	Tarper River Village - Rampur (Kurra) Khasra No. - 701	0.69	20.2899	14000 x 3	42,000	25200
	Burha Nala Village - Kadari Khasra No. - 672	0.93	16.129	15000 x 3	45,000	27000
	Total	29.641 (Approx)	191.9 (Approx)	2863600 x 3	8590800	5154480

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**Annexures to
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Annexure-1

Details of Sand/M-Sand Sources

a) Rivers:

River Name/M-Sand Plant	Total Stretch of River (in Km)	Type of River (Perennial or Non- Perennial)
Ken River	186.92 kms	Perennial
Dhansu River	121.77 kms	Perennial
Beswa River	20.57 kms	Perennial
Tarper River	22.56 kms	Perennial
Banna River	43.80 kms	Perennial

b) De-Siltation Location: (Lakes/Ponds/Dams etc.)


Name of Reservoir/Dams	Maintain/Controlled by Govt./PSU etc.	State	Location	Location	Tehsil	Village	Size (ha)
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

c) Pattn Lands/Khatodari Land:

Owner	Sl. No.	Area (ha)	District	Tehsil	Village	Agricultural Land (Yes/No)
NIL	NIL	NIL	NIL	NIL	NIL	NIL

d) M-Sand Plants:

SL No.	Plant Name	Owner	District	Tehsil	Village	Geo-Location	Quantity Tonnes/Annun
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL


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List of Potential Mining Leases (existing & proposed) Rivers

SL NO	River Details	Lease Detail				Area (in ha)	Distance (in KM) from P.A./B.R./V.C/	Distance from Forest Area (in KM)	Mining leases within 500 meters (If yes cluster area)	Total excavation in (MT/Yr.) (Mine depth max as 3 m)	Mineral to be mined. (Sand/Bajir/RBM etc.)	Existing/ Proposed
		बिना	मदद के साथ	उप	बाक नु							
1	बैन	छत्तपुर	गिरिहार	बनार	306/1	> 10 kms	> 250 meter	Non Cluster, B2 (Sl. No 2+8) 17.00ha	93000	Sand	Proposed	
2	बैन	छत्तपुर	गिरिहार	बनार-1	1540/1	> 10 kms	> 250 meter		300000	Sand	Proposed	
3	बैन	छत्तपुर	गिरिहार	बनार-1	396/2	> 10 kms	> 250 meter	Non Cluster, B1 (Sl. No. 4+6+9) 18.990 ha	420000	Sand	Proposed	
4	बैन	छत्तपुर	गिरिहार	बनार	609	> 10 kms	> 250 meter		119700	Sand	Proposed	
5	बैन	छत्तपुर	गिरिहार	बनार	1298/1	> 10 kms	> 250 meter	Non Cluster, B2 (Sl. No 6+9+4) 18.990 ha	64500	Sand	Proposed	
6	बैन	छत्तपुर	गिरिहार	बनार-1	613/1	> 10 kms	> 250 meter		150000	Sand	Proposed	
7	बैन	छत्तपुर	गिरिहार	बनार-2	1540/1	> 10 kms	> 250 meter	Non Cluster, B1 (Sl. No 8+2) 17.00ha	180000	Sand	Proposed	
8	बैन	छत्तपुर	गिरिहार	बनार-2	39	> 10 kms	> 250 meter	(Sl. No. 9+6+4) 18.99 ha	210000	Sand	Proposed	
9	बैन	छत्तपुर	गिरिहार	बनार-2	561	> 10 kms	> 250 meter		300000	Sand	Proposed	
10	बैन	छत्तपुर	गिरिहार	बनार-2	2	> 10 kms	> 250 meter	Non Cluster, B2	120000	Sand	Proposed	
11	बैन	छत्तपुर	गिरिहार	बनार-2	472/2	> 10 kms	> 250 meter	Non Cluster, B2 (Sl. No 12+13+18) 15.5ha	120000	Sand	Proposed	
12	बैन	छत्तपुर	गिरिहार	बनार	48	> 10 kms	> 250 meter	(Sl. No 12+13+18) 15.5ha	45000	Sand	Proposed	
13	बैन	छत्तपुर	गिरिहार	बनार-1	2531/13	> 10 kms	> 250 meter		120000	Sand	Proposed	
14	बैन	छत्तपुर	गिरिहार	बनार-1	268/231	> 10 kms	> 250 meter	Non Cluster, B1	300000	Sand	Proposed	
15	बैन	छत्तपुर	गिरिहार	बनार	1163	> 10 kms	> 250 meter	Non Cluster, B2	120000	Sand	Proposed	
16	बैन	छत्तपुर	गिरिहार	बनार	656	> 10 kms	> 250 meter	Non Cluster, B2 (Sl. No. 17+22+23) 34.000 ha	120000	Sand	Proposed	
17	बैन	छत्तपुर	गिरिहार	बनार-4	472/2	> 10 kms	> 250 meter		300000	Sand	Proposed	

18	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर-2	253/1/13	10,000	> 10 kms	> 250 meter	(Sl. No. 12+13+18) 15.5ha	300000	Sand	Proposed
19	केन	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	2/2	2,000	> 10 kms	> 250 meter	Non Cluster, B2	600000	Sand	Proposed
20	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	332	5,200	> 10 kms	> 250 meter	Non Cluster, B2	156000	Sand	Proposed
21	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	697/1	14,000	> 10 kms	> 250 meter	Non Cluster, B2	420000	Sand	Proposed
22	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	472/2	12,000	> 10 kms	> 250 meter	(Sl. No. 17+22) 22,000 ha	360000	Sand	Proposed
23	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	472/2	12,000	> 10 kms	> 250 meter	(Sl. No. 17+22) 22,000 ha	360000	Sand	Proposed
24	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	405	12,600	> 10 kms	> 250 meter	Non Cluster, B1	378000	Sand	Proposed
25	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	730	12,300	> 10 kms	> 250 meter	Non Cluster, B1	369000	Sand	Proposed
26	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	277/1	12,500	> 10 kms	> 250 meter	(Sl. No. 26+27) 23,000ha	375000	Sand	Proposed
27	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	854	11,500	> 10 kms	> 250 meter	(Sl. No. 26+27) 23,000ha	345000	Sand	Proposed
28	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	818	4,000	> 10 kms	> 250 meter	Non Cluster, B2	130000	Sand	Proposed
29	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	495/2	4,000	> 10 kms	> 250 meter	(Sl. No. 29+31) 12,000ha	120000	Sand	Proposed
30	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	1400	4,000	< 10 kms	> 250 meter	Non Cluster, B2	120000	Sand	Proposed
31	केन	उत्तपुर	श्रीशिवर	श्रीशिवर	श्रीशिवर	854	8,000	> 10 kms	> 250 meter	(Sl. No. 29+31) 12,000ha	240000	Sand	Proposed
32	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	257	2,800	> 10 kms	> 250 meter	(Sl. No. 32+36) 7,000ha	84000	Sand	Proposed
33	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	971, 1011	4,000	> 10 kms	> 250 meter	Non Cluster, B2	120000	Sand	Proposed
34	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	2/1011	4,000	> 10 kms	> 250 meter	Non Cluster, B2	120000	Sand	Proposed
35	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	1	2,100	> 10 kms	> 250 meter	Non Cluster, B2	63000	Sand	Proposed
36	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	1063	4,200	> 10 kms	> 250 meter	(Sl. No. 32+36) 7,000ha	126000	Sand	Proposed
37	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	1	7,000	> 10 kms	> 250 meter	Non Cluster, B2	210000	Sand	Proposed
38	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	574	6,000	> 10 kms	> 250 meter	(Sl. No. 38+40) 10,000ha	180000	Sand	Proposed
39	उत्तपुर	उत्तपुर	श्रीशिवर	उत्तपुर	उत्तपुर	2113	7,000	> 10 kms	> 250 meter	(Sl. No. 39+41) 11,000ha	210000	Sand	Proposed

40	बारा	बारा	बारा-1	574	4,000	> 10 kms	> 250 meter	(Sl. No 38+40) 10,000ha	120000	Sand	Proposed
41	बारा	बारा	बारा-1	2113	4,000	> 10 kms	> 250 meter	(Sl. No. 39+41) 11,000ha	120000	Sand	Proposed
42	बारा	बारा	बारा (बारा)	128	3,520	> 10 kms	> 250 meter	Non Cluster, B2	105600	Sand	Proposed
43	बारा	बारा	बारा	189, 658	2,000	> 10 kms	> 250 meter	Non Cluster, B2	60000	Sand	Proposed
44	बारा	बारा	बारा	53, 369	2,000	> 10 kms	> 250 meter	Non Cluster, B2	60000	Sand	Proposed
45	बारा	बारा	बारा	332	1,500	> 10 kms	> 250 meter	Non Cluster, B2	45000	Sand	Proposed
46	बारा	बारा	बारा	818	2,500	> 10 kms	> 250 meter	Non Cluster, B2	75000	Sand	Proposed
47	बारा	बारा	बारा (बारा)	701	1,400	> 10 kms	> 250 meter	Non Cluster, B2	42000	Sand	Proposed
48	बारा	बारा	बारा	672	1,500	> 10 kms	> 250 meter	Non Cluster, B2	45000	Sand	Proposed

Pattn Lands/Khatadari Lands: (Existing & Proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total Reserve (MT) *	Total Mineral to be mined (MT)	Existing/Proposed
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

MT density factor = 1.8

* Total Reserve (MT) considered upto 3 meters

De-Siltation Location: (Lakes/ponds/Dams etc.) (Existing & Proposed)

Name of Reservoir/Dams	Maintain/Controlled by State Govt./P.U etc.	Location	District	Tehsil	Village	Size (ha)	Quantity MTTY ear	Existing/Proposed
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

M-Sand Plants: (Existing & proposed)

Plant Name	Owner	District	Tehsil	Village	Geo-Location	Quantity Tonnage/Annam	Existing/Proposed
SL.N1.	NIL	NIL	NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

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CG-5, Aera Colony, Bhopal (M.P.)

Cluster & Contiguous Cluster details Clusters
Clusters:-

S.L. NO	River Details	Cluster No.	Lease No	Lease Detail				Area (in ha)	Total Excavation (Ton) (Mine depth max as 3 m) & Bulk Density of Sand considered 1.8	Total Mineral Excavation (Ton) (Lot Qty x Bulk Density factor of 1.8)
				जिला	वार्ड/का. नम्बर	ग्राम	खण्ड नम्बर			
1	रेन	1	1	छत्तारपुर	गोविन्दार	छत्तार	306/1	3.100	167400	18000.00
2	रेन	2	1	छत्तारपुर	गोविन्दार	परावार-1	154/1/1	10.000	300000	45000.00
3	रेन	3	1	छत्तारपुर	गोविन्दार	परावार-1	396/2	14.000	420000	270000.00
4	रेन	4	1	छत्तारपुर	गोविन्दार	परावार	609	3.990	119700	27000.00
5	रेन	5	1	छत्तारपुर	गोविन्दार	रेना	1298/1	2.150	64500	14400.00
6	रेन	4	2	छत्तारपुर	गोविन्दार	पट्टे-1	613/1	5.000	150000	308000.00
7	रेन	6	1	छत्तारपुर	गोविन्दार	परावार-2	1546/1	6.000	180000	36000.00
8	रेन	2	2	छत्तारपुर	गोविन्दार	परावार-2	39	7.000	210000	90000.00
9	रेन	4	3	छत्तारपुर	गोविन्दार	पट्टे-2	561	16.000	390000	126000.00
10	रेन	7	1	छत्तारपुर	गोविन्दार	राजपुरमाट	2	4.000	120000	50400.00
11	रेन	8	1	छत्तारपुर	गोविन्दार	परावार-3	472/2	4.000	120000	90000.00
12	रेन	9	1	छत्तारपुर	गोविन्दार	परावार	48	1.500	45000	21600.00
13	रेन	9	2	छत्तारपुर	गोविन्दार	गोवरा-1	2531/13	4.000	120000	90000.00
14	रेन	10	1	छत्तारपुर	गोविन्दार	गोविन्दार	269/231	10.000	300000	126000.00
15	रेन	11	1	छत्तारपुर	गोविन्दार	परावार	1163	4.000	120000	36000.00
16	रेन	12	1	छत्तारपुर	गोविन्दार	परावार	656	4.000	120000	39600.00
17	रेन	13	1	छत्तारपुर	गोविन्दार	परावार-4	472/2	10.000	300000	144000.00


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क्र.सं.	वर्ग	सं.	प्रकार	नियंत्रक	संगणक-2	2531/13	10,000	300000	144000.00
18	कन	14	घासपुस	नियंत्रक	संगणक-2	2/2	2,000	60000	72000.00
19	कन	15	घासपुस	नियंत्रक	संगणक-2	3/2	5,200	156000	126000.00
20	कन	16	घासपुस	नियंत्रक	संगणक-2	697/1	14,000	420000	186000.00
21	कन	13	घासपुस	नियंत्रक	संगणक-2	472/2	12,000	360000	90000.00
22	कन	13	घासपुस	नियंत्रक	संगणक-2	472/2	12,000	360000	90000.00
23	कन	17	घासपुस	नियंत्रक	संगणक-2	405	12,600	378000	96000.00
24	कन	18	घासपुस	नियंत्रक	संगणक-2	730	12,300	369000	99000.00
25	कन	19	घासपुस	नियंत्रक	संगणक-2	277/1	13,500	375000	117000.00
26	कन	19	घासपुस	नियंत्रक	संगणक-2	854	11,500	345000	135000.00
27	कन	20	घासपुस	नियंत्रक	संगणक-2	818	4,000	120000	27000.00
28	कन	21	घासपुस	नियंत्रक	संगणक-2	495/2	4,000	120000	36000.00
29	कन	22	घासपुस	नियंत्रक	संगणक-2	1400	4,000	120000	63000.00
30	कन	21	घासपुस	नियंत्रक	संगणक-2	834	8,000	240000	14400.00
31	कन	23	घासपुस	नियंत्रक	संगणक-2	257	2,800	84000	21600.00
32	कन	24	घासपुस	नियंत्रक	संगणक-2	971, 1011	4,000	120000	21600.00
33	कन	25	घासपुस	नियंत्रक	संगणक-2	2/1011	4,000	120000	18000.00
34	कन	26	घासपुस	नियंत्रक	संगणक-2	1	2,100	63000	21600.00
35	कन	23	घासपुस	नियंत्रक	संगणक-2	1063	4,200	126000	18000.00
36	कन	27	घासपुस	नियंत्रक	संगणक-2	1	7,000	210000	45000.00
37	कन	28	घासपुस	नियंत्रक	संगणक-2	574	6,000	180000	54000.00
38	कन	29	घासपुस	नियंत्रक	संगणक-2	2113	7,000	210000	90000.00

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Sl. No.	Cluster No.	Cluster Name	Location (Riverbed/Patin Land)	Distance between clusters	Village	Area of Cluster (ha.)	Total Mineral Excavation (ton)
40	28	वाराणसी	वाराणसी	574	4,000	120000	810000.00
41	29	वाराणसी	वाराणसी-1	2113	4,000	120000	630000.00
42	30	वाराणसी	वाराणसी (वाराणसी)	328	3,520	105600	630000.00
43	31	वाराणसी	वाराणसी	189,658	2,000	60000	270000.00
44	32	वाराणसी	वाराणसी	53,369	2,000	60000	234000.00
45	33	वाराणसी	वाराणसी	332	1,500	45000	216000.00
46	34	वाराणसी	वाराणसी	818	2,500	75000	180000.00
47	35	वाराणसी	वाराणसी (वाराणसी)	701	1,400	42000	180000.00
48	वाराणसी	वाराणसी	वाराणसी	672	1,500	45000	216000.00

Contiguous Clusters:	Cluster No.	No. of Leases in the Cluster	Location (Riverbed/Patin Land)	Distance between clusters	Village	Area of Cluster (ha.)	Total Mineral Excavation (ton)
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

* Total Excavation (Ton) considered upto 3 meters


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Transportation Routes for individual leases and leases in cluster

Sl. No.	Owner Details	Lease Details		Transportation Routes No.	Number of Trippers / day of lease	Number of Trippers / day of all the leases on route	Length of Route on km	Type of Road (Black Topped / unpaved)	Recommendation for road (Black Topped / unpaved)	The Road will be Constructed by Govt. / Lease Owner	Route Map & Location
		Area (sq. ft)	Area (sq. m)								
		वर्ग मी	वर्ग फी								
1	श्री. अशोक शिंदे	306/1	3.00	1	3	3	2.50	unpaved	unpaved	lease owner	Village MDR Road
3	श्री. अशोक शिंदे	398/2	14.00	2	35	38	7.93	unpaved	unpaved	lease owner	Erwan-Banda (Full) Road
5	श्री. अशोक शिंदे	1298/1	2.50	3	2	2	1.40	unpaved	unpaved	lease owner	Village MDR Road
7	श्री. अशोक शिंदे	1540/1	5.20	4	5	5	6.79	unpaved	unpaved	lease owner	MDR-11B - Banda-Tindurwar-Kaljar Road
10	श्री. अशोक शिंदे	3	4.00	5	7	7	1.84	unpaved	unpaved	lease owner	Erwan-Banda (Full) Road
11	श्री. अशोक शिंदे	472/2	4.00	6	13	13	3.21	unpaved	unpaved	lease owner	SH-49 - Nalrai-Panna-Damoh Road
14	श्री. अशोक शिंदे	269/231	3.00	7	18	18	5.75	unpaved	unpaved	lease owner	Erwan-Banda (Full) Road
15	श्री. अशोक शिंदे	1163	4.00	8	3	3	0.60	unpaved	unpaved	lease owner	Village MDR Road
20	श्री. अशोक शिंदे	854	4.00	9	5	5	2.81	unpaved	unpaved	lease owner	SH-49 - Nalrai-Panna-Damoh Road
19	श्री. अशोक शिंदे	272	2.00	10	10	10	1.10	unpaved	unpaved	lease owner	Erwan-Banda (Full) Road
20	श्री. अशोक शिंदे	352	3.00	11	18	18	3.36	unpaved	unpaved	lease owner	SH-49 - Nalrai-Panna-Damoh Road
21	श्री. अशोक शिंदे	687/1	1.00	12	25	25	4.12	unpaved	unpaved	lease owner	SH-49 - Nalrai-Panna-Damoh Road
24	श्री. अशोक शिंदे	405	1.50	13	13	13	0.50	unpaved	unpaved	lease owner	Village MDR Road

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Sl. No.	Location	Area (sq. m)	Volume (cu. m)	14	14	10.75	Unpaved	Lease owner	Remarks
25	SH - 49 - Nainital - Panna - Damoh Road	790	12,300	14	14	10.75	unpaved	lease owner	
28	Lakhnagar - Rajpaur - Bajjnagar Road	815	4,000	15	4	0.96	unpaved	lease owner	
30	SH - 49 - Nainital - Panna - Damoh Road	1,400	4,000	16	9	13.15	unpaved	lease owner	
33	Lakhnagar - Chaitanpur Marg	971, 1011	4,000	17	3	5.91	unpaved	lease owner	
34	Lakhnagar - Rajpaur - Bajjnagar Road	2,70,111	4,000	18	3	1.00	unpaved	lease owner	
35	SH - 35 - Panna - Khajuraho Marg	1	2,300	19	3	3.28	unpaved	lease owner	
37	SH - 35 - Panna - Khajuraho Marg	1	7,600	20	6	3.45	unpaved	lease owner	
41	Village MDR Road	125	1,000	21	9	2.80	unpaved	lease owner	
43	Village MDR Road	188, 656	2,000	22	4	1.65	unpaved	lease owner	
44	Village MDR Road	53, 365	2,000	23	3	1.80	unpaved	lease owner	
45	Village MDR Road	330	1,000	24	3	2.20	unpaved	lease owner	
46	Tikangarh - Bajjnagar Marg	801	2,000	25	3	0.84	unpaved	lease owner	
47	Village MDR Road	701	1,000	26	3	1.60	unpaved	lease owner	
48	SH - 35 - Panna - Khajuraho Marg	572	1,500	27	3	1.77	unpaved	lease owner	

* consuming 1/2 Dns track with carrying capacity of 16 cubic meter; and 2.50 working days


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Cluster No.	Transportation Route No.	Number of tippers/day of cluster	Number of tippers/day of all the clusters on route	Length of route in KM	Type of road (Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be constructed by Govt/Lease Owner	Route Map & Location
2	28	19	19	6.51	Unpaved	Unpaved	Lease Owner	Girwan-Banda (Pull) Road & MDR -11B - Banda - Tikveera - Kalinjir Road
4	29	37	37		Unpaved	Unpaved	Lease Owner	MCR -11B - Banda - Tindowar - Kalinjir Road
9	30	36	36		Unpaved	Unpaved	Lease Owner	Girwan-Banda (Pull) Road
13	31	46	46		Unpaved	Unpaved	Lease Owner	Girwan-Banda (Pull) Road
19	32	35	35		Unpaved	Unpaved	Lease Owner	SH - 49 - Nairani - Parasa-Damoh Road
21	33	7	7		Unpaved	Unpaved	Lease Owner	SH - 49 - Nairani - Parasa-Damoh Road
23	34	6	6		Unpaved	Unpaved	Lease Owner	Lakhnagar - Charanpur Marj
28	35	19	19		Unpaved	Unpaved	Lease Owner	SH - 39 - Parasa - Kaluraho Marj
29	36	22	22		Unpaved	Unpaved	Lease Owner	SH - 39 - Parasa - Kaluraho Marj

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Details of Geo-Coordinates of Leases in Chaitarpur District

SL. NO	River Details	Lease Detail				Area (Ac)	Geo-Coordinates of the Lease	
		खेती	समय का नाम	ग्राम	ब्लॉक		LATITUDE	LONGITUDE
1	कावेरी	गणेशपुर	गणेशपुर	राजपुर	306/1	25° 14' 41.36" N	80° 07' 06.54" E	
						25° 14' 51.45" N	80° 07' 06.64" E	
						25° 14' 43.03" N	80° 07' 14.18" E	
						25° 14' 39.38" N	80° 07' 15.97" E	
						25° 14' 41.15" N	80° 07' 18.99" E	
						25° 14' 41.99" N	80° 07' 23.34" E	
						25° 14' 45.49" N	80° 07' 19.88" E	
						25° 14' 41.36" N	80° 07' 13.99" E	
2	कावेरी	गणेशपुर	गणेशपुर	राजपुर-1	1340/1	25° 18' 58.33" N	80° 18' 30.31" E	
						25° 18' 58.43" N	80° 18' 54.75" E	
						25° 18' 59.25" N	80° 18' 55.89" E	
						25° 19' 04.38" N	80° 18' 57.88" E	
						25° 19' 04.98" N	80° 18' 40.39" E	
						25° 19' 04.98" N	80° 18' 40.31" E	
						25° 19' 04.17" N	80° 18' 46.39" E	
						25° 19' 04.98" N	80° 18' 42.98" E	
						25° 19' 04.98" N	80° 18' 59.39" E	
						25° 19' 04.38" N	80° 18' 57.88" E	
						25° 19' 04.17" N	80° 18' 55.98" E	
						25° 19' 04.38" N	80° 18' 54.11" E	

State Level Environmental Impact Assessment Authority, M.P. (EPCCO)
 Paryavaran Parisar
 E-5, Arera Colony, Bhopal (M.P.)

Sl	25°20'44.11"N	80°18'32.21"E				
DP. No.	LATITUDE	LONGITUDE				
A	25°18'38.28"S	80°18'09.20"E				
B	25°18'22.01"N	80°18'08.79"E				
C	25°18'21.93"N	80°18'10.56"E				
D	25°18'33.30"N	80°18'11.80"E				
E	25°18'34.30"N	80°18'14.70"E				
F	25°18'39.80"N	80°18'12.80"E				
DP. No.	LATITUDE	LONGITUDE				
1	25°20'17.35"N	80°17'53.30"E				
2	25°20'34.15"N	80°17'53.94"E				
3	25°20'17.07"N	80°18'01.90"E				
4	25°20'13.81"N	80°17'56.79"E				
DP. No.	LATITUDE	LONGITUDE				
A	25°18'38.28"S	80°18'09.20"E				
B	25°18'22.01"N	80°18'08.79"E				
C	25°18'21.93"N	80°18'10.56"E				
D	25°18'33.30"N	80°18'11.80"E				
E	25°18'34.30"N	80°18'14.70"E				
F	25°18'39.80"N	80°18'12.80"E				
G	25°18'40.18"N	80°18'19.14"E				
H	25°18'39.50"N	80°18'09.63"E				
I	25°18'38.27"N	80°18'09.47.51"E				
J	25°18'37.37"N	80°18'09.47.07"E				
K	25°18'35.20"N	80°18'09.46.64"E				
L	25°18'34.14"N	80°18'09.46.30"E				
DP. No.	LATITUDE	LONGITUDE				
A	25°20'49.39"N	80°17'56.74"E				
B	25°21'33.65"N	80°17'59.88"E				
C	25°20'25.40"N	80°17'59.08"E				
D	25°21'32.00"N	80°17'48.19"E				
DP. No.	LATITUDE	LONGITUDE				
1	25°21'24.60"N	80°18'28.91"E				
2	25°21'38.36"N	80°18'35.99"E				
3	25°21'31.50"N	80°18'36.82"E				
4	25°21'40.00"N	80°18'37.22"E				
5	25°21'36.36"N	80°18'40.39"E				
6	25°21'32.00"N	80°18'34.33"E				
7	25°21'22.51"N	80°18'32.31"E				

396/2

खंड-1

श्रीराम

धरपुर

कन

609

बसवा

श्रीराम

धरपुर

कन

1298/1

रेववा

श्रीराम

धरपुर

कन

613/1

खंड-1

श्रीराम

धरपुर

कन

1540/1

खंड-2


श्रीराम

धरपुर

कन

State Level Environmental Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Aera Colony, Bhopal (M.P.)

8	केन	छतापुर	श्रीशिवर	मच्छीवाट-2	39	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°20'21.67"N</td> <td>80°18'53.01"E</td> </tr> <tr> <td>2</td> <td>25°20'43.35"N</td> <td>80°18'51.18"E</td> </tr> <tr> <td>3</td> <td>25°20'23.53"N</td> <td>80°18'58.41"E</td> </tr> <tr> <td>4</td> <td>25°20'12.38"N</td> <td>80°19'02.29"E</td> </tr> <tr> <td>5</td> <td>25°20'10.03"N</td> <td>80°19'08.31"E</td> </tr> <tr> <td>6</td> <td>25°20'06.46"N</td> <td>80°19'00.84"E</td> </tr> <tr> <td>7</td> <td>25°20'07.33"N</td> <td>80°19'07.42"E</td> </tr> <tr> <td>8</td> <td>25°20'16.38"N</td> <td>80°19'00.38"E</td> </tr> </tbody> </table>		BP. No.	LATITUDE	LONGITUDE	1	25°20'21.67"N	80°18'53.01"E	2	25°20'43.35"N	80°18'51.18"E	3	25°20'23.53"N	80°18'58.41"E	4	25°20'12.38"N	80°19'02.29"E	5	25°20'10.03"N	80°19'08.31"E	6	25°20'06.46"N	80°19'00.84"E	7	25°20'07.33"N	80°19'07.42"E	8	25°20'16.38"N	80°19'00.38"E
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9	केन	छतापुर	श्रीशिवर	रक्ष-2	561	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°24'40.56"N</td> <td>80°17'16.64"E</td> </tr> <tr> <td>2</td> <td>25°24'53.45"N</td> <td>80°17'21.50"E</td> </tr> <tr> <td>3</td> <td>25°24'48.85"N</td> <td>80°17'23.97"E</td> </tr> <tr> <td>4</td> <td>25°24'44.11"N</td> <td>80°17'28.29"E</td> </tr> <tr> <td>5</td> <td>25°24'39.73"N</td> <td>80°17'33.31"E</td> </tr> <tr> <td>6</td> <td>25°24'35.07"N</td> <td>80°17'38.35"E</td> </tr> <tr> <td>7</td> <td>25°24'45.07"N</td> <td>80°17'21.82"E</td> </tr> <tr> <td>8</td> <td>25°24'44.85"N</td> <td>80°17'29.35"E</td> </tr> </tbody> </table>		BP. No.	LATITUDE	LONGITUDE	1	25°24'40.56"N	80°17'16.64"E	2	25°24'53.45"N	80°17'21.50"E	3	25°24'48.85"N	80°17'23.97"E	4	25°24'44.11"N	80°17'28.29"E	5	25°24'39.73"N	80°17'33.31"E	6	25°24'35.07"N	80°17'38.35"E	7	25°24'45.07"N	80°17'21.82"E	8	25°24'44.85"N	80°17'29.35"E
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10	केन	छतापुर	श्रीशिवर	सागुरवाट	2	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>25°18'27.85"N</td> <td>80°21'22.76"E</td> </tr> <tr> <td>B</td> <td>25°18'38.65"N</td> <td>80°21'19.07"E</td> </tr> <tr> <td>C</td> <td>25°18'42.71"N</td> <td>80°21'22.26"E</td> </tr> <tr> <td>D</td> <td>25°18'31.57"N</td> <td>80°21'25.15"E</td> </tr> </tbody> </table>		BP. No.	LATITUDE	LONGITUDE	A	25°18'27.85"N	80°21'22.76"E	B	25°18'38.65"N	80°21'19.07"E	C	25°18'42.71"N	80°21'22.26"E	D	25°18'31.57"N	80°21'25.15"E												
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11	केन	छतापुर	श्रीशिवर	बागवट-3	472/2	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25°9'42.80"N</td> <td>80°24'08.54"E</td> </tr> <tr> <td>2</td> <td>25°9'43.80"N</td> <td>80°24'11.49"E</td> </tr> <tr> <td>3</td> <td>25°9'44.46"N</td> <td>80°24'18.28"E</td> </tr> <tr> <td>4</td> <td>25°9'40.86"N</td> <td>80°24'28.23"E</td> </tr> <tr> <td>5</td> <td>25°9'39.40"N</td> <td>80°24'18.02"E</td> </tr> </tbody> </table>		BP. No.	LATITUDE	LONGITUDE	1	25°9'42.80"N	80°24'08.54"E	2	25°9'43.80"N	80°24'11.49"E	3	25°9'44.46"N	80°24'18.28"E	4	25°9'40.86"N	80°24'28.23"E	5	25°9'39.40"N	80°24'18.02"E									
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12	केन	छतापुर	श्रीशिवर	करेल	48	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>25°15'28.80"N</td> <td>80°21'37.50"E</td> </tr> <tr> <td>B</td> <td>25°15'29.92"N</td> <td>80°21'34.12"E</td> </tr> <tr> <td>C</td> <td>25°15'27.80"N</td> <td>80°21'33.17"E</td> </tr> <tr> <td>D</td> <td>25°15'25.10"N</td> <td>80°21'28.10"E</td> </tr> </tbody> </table>		BP. No.	LATITUDE	LONGITUDE	A	25°15'28.80"N	80°21'37.50"E	B	25°15'29.92"N	80°21'34.12"E	C	25°15'27.80"N	80°21'33.17"E	D	25°15'25.10"N	80°21'28.10"E												
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13	केन	छतापुर	श्रीशिवर	गोवाट-1	2531/13	<table border="1"> <thead> <tr> <th>BP. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>25°14'52.75"N</td> <td>80°21'50.63"E</td> </tr> <tr> <td>B</td> <td>25°14'51.15"N</td> <td>80°21'53.41"E</td> </tr> <tr> <td>C</td> <td>25°14'58.38"N</td> <td>80°21'52.99"E</td> </tr> <tr> <td>D</td> <td>25°14'51.60"N</td> <td>80°21'53.33"E</td> </tr> </tbody> </table>		BP. No.	LATITUDE	LONGITUDE	A	25°14'52.75"N	80°21'50.63"E	B	25°14'51.15"N	80°21'53.41"E	C	25°14'58.38"N	80°21'52.99"E	D	25°14'51.60"N	80°21'53.33"E												
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 State Level Environment Impact
 Assessment Authority, M.P.
 (SEIAA)
 Paryavaran Parisar
 5-5, Aerao Colony, Bhopal (M.P.)

Sl. No.	Village	Taluka	District	Pin Code	Coordinates							
					Latitude	Longitude						
14	वडवड	श्रीरंग	श्रीरंग	269231	1	25° 44.55' N	80° 21' 43.22' E					
					2	25° 47.35' N	80° 21' 45.00' E					
					3	25° 48.67' N	80° 21' 47.27' E					
					4	25° 47.30' N	80° 21' 47.56' E					
					5	25° 47.07' N	80° 21' 47.53' E					
					6	25° 46.73' N	80° 21' 47.26' E					
					7	25° 45.54' N	80° 21' 47.55' E					
					8	25° 46.16' N	80° 21' 48.89' E					
					9	25° 47.35' N	80° 21' 49.37' E					
					10	25° 48.11' N	80° 21' 48.52' E					
					11	25° 48.66' N	80° 21' 48.07' E					
					12	25° 48.51' N	80° 21' 48.72' E					
					13	25° 44.11' N	80° 21' 52.45' E					
					14	25° 44.10' N	80° 21' 50.30' E					
					15	25° 47.38' N	80° 21' 46.44' E					
					16	वडवड	श्रीरंग	श्रीरंग	656	1	25° 43.84' N	80° 21' 48.91' E
										2	25° 43.09' N	80° 21' 48.07' E
										3	25° 42.48' N	80° 21' 47.68' E
4	25° 42.85' N	80° 21' 47.05' E										
17	वडवड	श्रीरंग	श्रीरंग-1	472/2	1	25° 43.12' N	80° 21' 49.19' E					
					2	25° 43.60' N	80° 21' 49.45' E					
					3	25° 43.30' N	80° 21' 49.09' E					

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


24	कन	कनपुर	कनरा	लसकरवा	405	1	25°10'32.85"N	80°25'43.03"E
						2	25°10'40.31"N	80°25'43.38"E
						3	25°10'51.65"N	80°25'46.55"E
						4	25°10'52.78"N	80°25'45.44"E
						5	25°10'48.58"N	80°25'46.07"E
						6	25°10'42.46"N	80°25'48.02"E
						7	25°10'36.35"N	80°25'48.25"E
						8	25°10'29.03"N	80°25'47.81"E
						9	25°10'26.11"N	80°25'46.94"E
25	कन	कनपुर	कनरा	बठनी	730	SP. No.	LATITUDE	LONGITUDE
						A	24°57'33.55"N	80°15'12.91"E
						B	24°57'54.05"N	80°15'09.40"E
						C	24°58'29.35"N	80°15'13.05"E
						D	24°58'59.28"N	80°15'14.81"E
						E	24°59'53.78"N	80°15'28.41"E
						F	24°59'45.78"N	80°15'28.87"E
26	क	कनपुर	कनरा	बध	2771	SP. No.	LATITUDE	LONGITUDE
						1	25°03'11.60"N	80°17'13.30"E
						2	25°03'13.40"N	80°17'13.60"E
						3	25°03'13.80"N	80°17'13.50"E
						4	25°03'08.70"N	80°17'13.80"E
						5	25°03'05.40"N	80°17'14.00"E
						6	25°03'03.40"N	80°17'14.10"E
						7	25°02'59.50"N	80°17'14.60"E
						8	25°02'55.80"N	80°17'14.70"E
						9	25°02'54.66"N	80°17'09.50"E
						10	25°03'03.05"N	80°17'08.80"E
						11	25°03'05.30"N	80°17'08.01"E
						12	25°03'10.02"N	80°17'07.24"E
13	25°03'11.94"N	80°17'07.04"E						


 State Level Environment Impact
 Assessment Authority, M.P.
 (EPCO)
 Paryavaran Parisar
 6-5, Arera Colony, Bhopal (M.P.)

27	ऊ	उमरुवा	बबला	बघाडी-1	834				80°17'07.13"E	25°02'38.17"N	LONGITUDE 80°17'02.30"E 80°17'04.04"E 80°17'06.26"E 80°17'08.11"E 80°17'09.48"E 80°17'10.77"E 80°17'14.30"E 80°17'13.50"E 80°17'12.90"E 80°17'11.60"E 80°17'09.00"E 80°17'07.50"E	LATITUDE 25°02'38.17"N 25°02'31.01"N 25°02'28.26"N 25°02'17.77"N 25°02'39.40"N 25°02'48.01"N 25°02'47.80"N 25°02'57.00"N 25°02'31.70"N 25°02'28.00"N 25°02'19.00"N 25°02'36.20"N		
													1	LONGITUDE 80°17'02.30"E
													2	80°17'04.04"E
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													10	80°17'11.60"E
													11	80°17'09.00"E
													12	80°17'07.50"E
28	उ	उमरुवा	बबला	बुधवाडी	818				80°03'06.15"E	24°54'59.03"N	LONGITUDE 80°02'56.91"E 80°02'58.41"E 80°02'59.07"E 80°03'00.28"E 80°03'06.15"E 80°03'10.41"E 80°03'11.63"E 80°03'16.08"E 80°03'19.06"E 80°03'20.31"E 80°03'24.38"E 80°03'22.27"E 80°03'20.27"E 80°03'14.17"E 80°03'11.19"E 80°03'08.17"E 80°03'05.09"E 80°03'02.57"E 80°02'56.18"E	LATITUDE 24°54'59.03"N 24°54'57.00"N 24°54'56.54"N 24°54'57.00"N 24°54'56.18"N 24°54'56.50"N 24°54'56.00"N 24°54'56.47"N 24°54'56.04"N 24°54'56.01"N 24°54'56.54"N 24°54'56.51"N 24°54'57.00"N 24°54'56.18"N 24°54'56.50"N 24°54'56.00"N 24°54'56.47"N 24°54'56.04"N 24°54'56.01"N		
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													4	80°03'00.28"E
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													14	80°03'14.17"E
													15	80°03'11.19"E
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State Level Environmental Impact
Assessment Authority, M.P.
(EPCO)
Paryaveeran Parisar
5-5, Arera Colony, Bhopal (M.P.)

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21	24° 02' 58" N	79° 18' 11" E																																																																												
22	24° 02' 58" N	79° 18' 11" E																																																																												
23	24° 02' 58" N	79° 18' 08" E																																																																												

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

34	34°45'55.97"N	79°18'09.84"E
IMP. No.	LATITUDE	LONGITUDE
1	34°45'55.15"N	79°18'02.04"E
2	34°45'55.22"N	79°18'04.34"E
3	34°45'55.02"N	79°18'06.05"E
4	34°45'55.17"N	79°18'08.82"E
5	34°45'57.19"N	79°18'11.30"E
6	34°45'57.11"N	79°18'13.71"E
7	34°45'57.19"N	79°18'16.44"E
8	34°45'57.21"N	79°18'19.00"E
9	34°45'57.21"N	79°18'21.04"E
10	34°45'58.88"N	79°18'23.14"E
11	34°45'58.37"N	79°18'25.45"E
12	34°45'58.30"N	79°18'27.00"E
13	34°45'58.19"N	79°18'28.49"E
14	34°45'58.17"N	79°18'30.11"E
15	34°45'58.14"N	79°18'31.71"E
16	34°45'58.21"N	79°18'33.62"E
17	34°45'58.31"N	79°18'35.00"E
18	34°45'58.33"N	79°18'36.19"E
19	34°45'58.18"N	79°18'37.25"E
20	34°45'58.48"N	79°18'38.74"E
21	34°45'58.37"N	79°18'40.77"E
IMP. No.	LATITUDE	LONGITUDE
1	34°45'58.15"N	79°18'42.51"E
2	34°45'58.19"N	79°18'44.04"E
3	34°45'58.31"N	79°18'45.19"E
4	34°45'58.04"N	79°18'46.31"E
5	34°45'58.34"N	79°18'47.43"E
6	34°45'58.33"N	79°18'48.58"E

189, 638

नालवामपुर

श्रीलक्ष्मी

बसपुर

रुने

43

शिवमपुर

श्रीलक्ष्मी

बसपुर

रुने

44

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

47	उदर	उदर	उदर	उदर (कुल)	818	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>LATITUDE</th> <th>LONGITUDE</th> </tr> </thead> <tbody> <tr><td>1</td><td>24°53'41.25"N</td><td>79°20'40.33"E</td></tr> <tr><td>2</td><td>24°53'41.25"N</td><td>79°20'41.80"E</td></tr> <tr><td>3</td><td>24°53'41.25"N</td><td>79°20'43.27"E</td></tr> <tr><td>4</td><td>24°53'41.25"N</td><td>79°20'44.74"E</td></tr> <tr><td>5</td><td>24°53'41.25"N</td><td>79°20'46.21"E</td></tr> <tr><td>6</td><td>24°53'41.25"N</td><td>79°20'47.68"E</td></tr> <tr><td>7</td><td>24°53'41.25"N</td><td>79°20'49.15"E</td></tr> <tr><td>8</td><td>24°53'41.25"N</td><td>79°20'50.62"E</td></tr> <tr><td>9</td><td>24°53'41.25"N</td><td>79°20'52.09"E</td></tr> <tr><td>10</td><td>24°53'41.25"N</td><td>79°20'53.56"E</td></tr> <tr><td>11</td><td>24°53'41.25"N</td><td>79°20'55.03"E</td></tr> <tr><td>12</td><td>24°53'41.25"N</td><td>79°20'56.50"E</td></tr> <tr><td>13</td><td>24°53'41.25"N</td><td>79°20'57.97"E</td></tr> <tr><td>14</td><td>24°53'41.25"N</td><td>79°20'59.44"E</td></tr> <tr><td>15</td><td>24°53'41.25"N</td><td>79°20'60.91"E</td></tr> <tr><td>16</td><td>24°53'41.25"N</td><td>79°20'62.38"E</td></tr> <tr><td>17</td><td>24°53'41.25"N</td><td>79°20'63.85"E</td></tr> <tr><td>18</td><td>24°53'41.25"N</td><td>79°20'65.32"E</td></tr> <tr><td>19</td><td>24°53'41.25"N</td><td>79°20'66.79"E</td></tr> <tr><td>20</td><td>24°53'41.25"N</td><td>79°20'68.26"E</td></tr> <tr><td>21</td><td>24°53'41.25"N</td><td>79°20'69.73"E</td></tr> <tr><td>22</td><td>24°53'41.25"N</td><td>79°20'71.20"E</td></tr> <tr><td>23</td><td>24°53'41.25"N</td><td>79°20'72.67"E</td></tr> <tr><td>24</td><td>24°53'41.25"N</td><td>79°20'74.14"E</td></tr> <tr><td>25</td><td>24°53'41.25"N</td><td>79°20'75.61"E</td></tr> <tr><td>26</td><td>24°53'41.25"N</td><td>79°20'77.08"E</td></tr> <tr><td>27</td><td>24°53'41.25"N</td><td>79°20'78.55"E</td></tr> <tr><td>28</td><td>24°53'41.25"N</td><td>79°20'80.02"E</td></tr> <tr><td>29</td><td>24°53'41.25"N</td><td>79°20'81.49"E</td></tr> <tr><td>30</td><td>24°53'41.25"N</td><td>79°20'82.96"E</td></tr> <tr><td>31</td><td>24°53'41.25"N</td><td>79°20'84.43"E</td></tr> <tr><td>32</td><td>24°53'41.25"N</td><td>79°20'85.90"E</td></tr> <tr><td>33</td><td>24°53'41.25"N</td><td>79°20'87.37"E</td></tr> <tr><td>34</td><td>24°53'41.25"N</td><td>79°20'88.84"E</td></tr> <tr><td>35</td><td>24°53'41.25"N</td><td>79°20'90.31"E</td></tr> </tbody> </table>	Sl. No.	LATITUDE	LONGITUDE	1	24°53'41.25"N	79°20'40.33"E	2	24°53'41.25"N	79°20'41.80"E	3	24°53'41.25"N	79°20'43.27"E	4	24°53'41.25"N	79°20'44.74"E	5	24°53'41.25"N	79°20'46.21"E	6	24°53'41.25"N	79°20'47.68"E	7	24°53'41.25"N	79°20'49.15"E	8	24°53'41.25"N	79°20'50.62"E	9	24°53'41.25"N	79°20'52.09"E	10	24°53'41.25"N	79°20'53.56"E	11	24°53'41.25"N	79°20'55.03"E	12	24°53'41.25"N	79°20'56.50"E	13	24°53'41.25"N	79°20'57.97"E	14	24°53'41.25"N	79°20'59.44"E	15	24°53'41.25"N	79°20'60.91"E	16	24°53'41.25"N	79°20'62.38"E	17	24°53'41.25"N	79°20'63.85"E	18	24°53'41.25"N	79°20'65.32"E	19	24°53'41.25"N	79°20'66.79"E	20	24°53'41.25"N	79°20'68.26"E	21	24°53'41.25"N	79°20'69.73"E	22	24°53'41.25"N	79°20'71.20"E	23	24°53'41.25"N	79°20'72.67"E	24	24°53'41.25"N	79°20'74.14"E	25	24°53'41.25"N	79°20'75.61"E	26	24°53'41.25"N	79°20'77.08"E	27	24°53'41.25"N	79°20'78.55"E	28	24°53'41.25"N	79°20'80.02"E	29	24°53'41.25"N	79°20'81.49"E	30	24°53'41.25"N	79°20'82.96"E	31	24°53'41.25"N	79°20'84.43"E	32	24°53'41.25"N	79°20'85.90"E	33	24°53'41.25"N	79°20'87.37"E	34	24°53'41.25"N	79°20'88.84"E	35	24°53'41.25"N	79°20'90.31"E																																																																																																																																																																																																			
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No.	LATITUDE	LONGITUDE	1	24°53'41.25"N	79°20'15.43"E	2	24°53'41.25"N	79°20'16.90"E	3	24°53'41.25"N	79°20'18.37"E	4	24°53'41.25"N	79°20'19.84"E	5	24°53'41.25"N	79°20'21.31"E	6	24°53'41.25"N	79°20'22.78"E	7	24°53'41.25"N	79°20'24.25"E	8	24°53'41.25"N	79°20'25.72"E	9	24°53'41.25"N	79°20'27.19"E	10	24°53'41.25"N	79°20'28.66"E	11	24°53'41.25"N	79°20'30.13"E	12	24°53'41.25"N	79°20'31.60"E	13	24°53'41.25"N	79°20'33.07"E	14	24°53'41.25"N	79°20'34.54"E	15	24°53'41.25"N	79°20'36.01"E	16	24°53'41.25"N	79°20'37.48"E	17	24°53'41.25"N	79°20'38.95"E	18	24°53'41.25"N	79°20'40.42"E	19	24°53'41.25"N	79°20'41.89"E	20	24°53'41.25"N	79°20'43.36"E	21	24°53'41.25"N	79°20'44.83"E	22	24°53'41.25"N	79°20'46.30"E	23	24°53'41.25"N	79°20'47.77"E	24	24°53'41.25"N	79°20'49.24"E	25	24°53'41.25"N	79°20'50.71"E	26	24°53'41.25"N	79°20'52.18"E	27	24°53'41.25"N	79°20'53.65"E	28	24°53'41.25"N	79°20'55.12"E	29	24°53'41.25"N	79°20'56.59"E	30	24°53'41.25"N	79°20'58.06"E	31	24°53'41.25"N	79°20'59.53"E	32	24°53'41.25"N	79°20'61.00"E	33	24°53'41.25"N	79°20'62.47"E	34	24°53'41.25"N	79°20'63.94"E	35	24°53'41.25"N	79°20'65.41"E	36	24°53'41.25"N	79°20'66.88"E	37	24°53'41.25"N	79°20'68.35"E	38	24°53'41.25"N	79°20'69.82"E	39	24°53'41.25"N	79°20'71.29"E	40	24°53'41.25"N	79°20'72.76"E	41	24°53'41.25"N	79°20'74.23"E	42	24°53'41.25"N	79°20'75.70"E	43	24°53'41.25"N	79°20'77.17"E	44	24°53'41.25"N	79°20'78.64"E	45	24°53'41.25"N	79°20'80.11"E	46	24°53'41.25"N	79°20'81.58"E	47	24°53'41.25"N	79°20'83.05"E	48	24°53'41.25"N	79°20'84.52"E	49	24°53'41.25"N	79°20'85.99"E	50	24°53'41.25"N	79°20'87.46"E	51	24°53'41.25"N	79°20'88.93"E	52	24°53'41.25"N	79°20'90.40"E	53	24°53'41.25"N	79°20'91.87"E	54	24°53'41.25"N	79°20'93.34"E	55	24°53'41.25"N	79°20'94.81"E	56	24°53'41.25"N	79°20'96.28"E	57	24°53'41.25"N	79°20'97.75"E	58	24°53'41.25"N	79°20'99.22"E	59	24°53'41.25"N	79°21'00.69"E	60	24°53'41.25"N	79°21'02.16"E	61	24°53'41.25"N	79°21'03.63"E	62	24°53'41.25"N	79°21'05.10"E	63	24°53'41.25"N	79°21'06.57"E	64	24°53'41.25"N	79°21'08.04"E	65	24°53'41.25"N	79°21'09.51"E	66	24°53'41.25"N	79°21'10.98"E	67	24°53'41.25"N	79°21'12.45"E	68	24°53'41.25"N	79°21'13.92"E	69	24°53'41.25"N	79°21'15.39"E	70	24°53'41.25"N	79°21'16.86"E	71	24°53'41.25"N	79°21'18.33"E	72	24°53'41.25"N	79°21'19.80"E	73	24°53'41.25"N	79°21'21.27"E	74	24°53'41.25"N	79°21'22.74"E	75	24°53'41.25"N	79°21'24.21"E	76	24°53'41.25"N	79°21'25.68"E	77	24°53'41.25"N	79°21'27.15"E	78	24°53'41.25"N	79°21'28.62"E	79	24°53'41.25"N	79°21'30.09"E	80	24°53'41.25"N	79°21'31.56"E	81	24°53'41.25"N	79°21'33.03"E	82	24°53'41.25"N	79°21'34.50"E	83	24°53'41.25"N	79°21'35.97"E	84	24°53'41.25"N	79°21'37.44"E	85	24°53'41.25"N	79°21'38.91"E	86	24°53'41.25"N	79°21'40.38"E	87	24°53'41.25"N	79°21'41.85"E	88	24°53'41.25"N	79°21'43.32"E	89	24°53'41.25"N	79°21'44.79"E	90	24°53'41.25"N	79°21'46.26"E	91	24°53'41.25"N	79°21'47.73"E	92	24°53'41.25"N	79°21'49.20"E	93	24°53'41.25"N	79°21'50.67"E	94	24°53'41.25"N	79°21'52.14"E	95	24°53'41.25"N	79°21'53.61"E	96	24°53'41.25"N	79°21'55.08"E	97	24°53'41.25"N	79°21'56.55"E	98	24°53'41.25"N	79°21'58.02"E	99	24°53'41.25"N	79°21'59.49"E	100	24°53'41.25"N	79°22'00.96"E
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Assessment Authority, M.P.
(EPCO)
Patyavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

जिला छत्तरपुर - खोद-मरु खदानों का ब्यौरा							
समूह का नाम - समूह क्रमांक-1 (तहसील का नाम - गौरिहार)							
क्र.	जिला	तहसील का नाम	ग्राम	खसरा नं०	अनुमानित रकबा हे०	रेत का अनुमानित भण्डार (घ.मी.)	रिमांक
1	2	3	4	5	6	7	8
1	छत्तरपुर	गौरिहार	मवईघाट	73/3/1/2, 48/9/2	1.000	12,000	मवईघाट
2	छत्तरपुर	गौरिहार	फततेपुर	295/3/1, 295/3/2	1.330	12,000	फततेपुर
3	छत्तरपुर	गौरिहार	सिंगारपुर	148/5/ख	1.000	12,000	सिंगारपुर-1
4	छत्तरपुर	गौरिहार	सिंगारपुर	64/5	1.000	12,000	सिंगारपुर-2
5	छत्तरपुर	गौरिहार	अजीतपुर	488/4/17	1.000	12,000	अजीतपुर
6	छत्तरपुर	गौरिहार	बारबंद	253/1/2/1	1.000	12,000	बारबंद
				कुल	6.330	72,000	

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

Table - A-9/Chattarpur/Replenishment/Reserve

Results of Replenishment Study of Leases in Chattarpur District

SL. No	River	जिला	राजकीय का नाम	ग्राम	खसरा नं०	एकड़ों में	रेल का अनुमानित भण्डार (घ.मी.)	Area in Sq.M.	New sustainable Standard depth observed on post monsoon scenario (M)	Quantity in Cu.M.
		2	3	4	5	6	7	12	13	14
1	कैल	छत्तरपुर	गोखिर	रामपुर	306/1	3.100	10,000	31000	3	93000
2	केन	छत्तरपुर	गोखिर	पड़वार-1	1540/1	10.000	25,000	100000	3	3,00,000
3	केन	छत्तरपुर	गोखिर	मथईघाट-1	396/2	14.000	1,50,000	140000	3	4,20,000
4	केन	छत्तरपुर	गोखिर	बल्ला	609	3.990	15,000	39900	3	1,19,700
5	कैल	छत्तरपुर	गोखिर	रेवना	1298/1	2.150	8,000	21500	3	64,500
6	केन	छत्तरपुर	गोखिर	परेई-1	613/1	5.000	60,000	50000	3	1,50,000
7	केन	छत्तरपुर	गोखिर	पड़वार-2	1540/1	6.000	20,000	60000	3	1,80,000
8	केन	छत्तरपुर	गोखिर	मथईघाट-2	39	7.000	50,000	70000	3	2,10,000

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B	केन	छतरपुर	गोखिर	पर्ये-2	561	10,000	70,000	100000	3	3,00,000
10	केन	छतरपुर	गोखिर	रामपुरघाट	2	4,000	28,000	40000	3	1,20,000
11	केन	छतरपुर	गोखिर	बारबंद-3	472/2	4,000	50,000	40000	3	1,20,000
12	केन	छतरपुर	गोखिर	कचेली	48	1,500	12,000	15000	3	45,000
13	केन	छतरपुर	गोखिर	गोबरा-1	2531/13	4,000	50,000	40000	3	1,20,000
14	केन	छतरपुर	गोखिर	बारीखेड़ा	269/231	10,000	70,000	100000	3	3,00,000
15	केन	छतरपुर	गोखिर	महवाया	1163	4,000	20,000	40000	3	1,20,000
16	केन	छतरपुर	गोखिर	अजोतपुर	656	4,000	22,000	40000	3	1,20,000
17	केन	छतरपुर	गोखिर	बारबंद-4	472/2	10,000	80,000	100000	3	3,00,000
18	केन	छतरपुर	गोखिर	गोबरा-2	2531/13	10,000	80,000	100000	3	3,00,000
19	केन	छतरपुर	गोखिर	फतौपुर	2/2	2,000	40,000	20000	3	60,000
20	केन	छतरपुर	गोखिर	धीरारस्त खयान	332	5,200	70,000	52000	3	1,56,000
21	केन	छतरपुर	गोखिर	नेहरा	697/1	14,000	1,00,000	140000	3	4,20,000
22	केन	छतरपुर	गोखिर	बारबंद नं० 1	472/2	12,000	50,000	120000	3	3,60,000
23	केन	छतरपुर	गोखिर	बारबंद नं० 2	472/2	12,000	50,000	120000	3	3,60,000

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

24	केन	छतरपुर	चंदवा	लसगावथा	405	12.600	50,000.00	126000	3	3,78,000
25	केन	छतरपुर	चंदवा	बंजारी	730	12.300	55,000.00	123000	3	3,69,000
26	केन	छतरपुर	चंदवा	हरई	277/1	12.500	65,000.00	125000	3	3,75,000
27	केन	छतरपुर	चंदवा	बघारी-1	854	11.500	75,000.00	115000	3	3,45,500
28	उसमिल	छतरपुर	चंदवा	सूरजपुर	818	4.000	15,000.00	40000	3	1,20,000
29	केन	छतरपुर	चंदवा	हिनीता	493/2	4.000	20,000.00	40000	3	1,20,000
30	केन	छतरपुर	चंदवा	सरकर	1400	4.000	35,000.00	40000	3	1,20,000
31	केन	छतरपुर	चंदवा	बघारी नं० 2	854	8.000	8,000.00	80000	3	2,40,000
32	उसमिल	छतरपुर	राजनार	सुरा	257	2.800	12,000.00	28000	3	84,000
33	उसमिल	छतरपुर	राजनार	रिगीनी	971, 1011	4.000	12,000.00	40000	3	1,20,000
34	उसमिल	छतरपुर	राजनार	कुरेला	2/1011	4.000	10,000.00	40000	3	1,20,000
35	बसे	छतरपुर	राजनार	कुटिया	1	2.100	12,000.00	21000	3	63,000
36	उसमिल	छतरपुर	सबकुलनगर	सगमळ	1063	4.200	10,000.00	42000	3	1,26,000
37	धसान	छतरपुर	नीगव	करासागज	1	7.000	25,000.00	70000	3	2,10,000
38	धसान	छतरपुर	नीगव	टीला-2	574	6.000	30,000.00	60000	3	1,80,000

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39	घसान	छतरपुर	नीगब	अलीपुरा-2	2113	7,000	50,000.00	70000	3	2,10,000
40	घसान	छतरपुर	नीगब	दीसा-1	574	4,000	45,000.00	40000	3	1,20,000
41	घसान	छतरपुर	नीगब	अलीपुरा-1	2113	4,000	35,000.00	40000	3	1,20,000
42	कवान	छतरपुर	बखमलहरा	नीरा (सिजवाहा)	128	3,520	35,000.00	35200	3	1,05,600
43	बन्ने	छतरपुर	विजमर	नारयणपुरा	189, 658	2,000	15,000.00	20000	3	60,000
44	बन्ने	छतरपुर	विजमर	सियामपुरा	53, 369	2,000	13,000.00	20000	3	60,000
45	बन्ने	छतरपुर	किजकर	अमरपुरा	332	1,500	12,000.00	15000	3	45,000
46	तरफेर	छतरपुर	छतरपुर	दियोल	818	2,500	10,000.00	25000	3	75,000
47	तरफेर	छतरपुर	छतरपुर	रामपुर (कुरी)	701	1,400	10,000.00	14000	3	42,000
48	दुरहा	छतरपुर	छतरपुर	कवती	672	1,500	12,000.00	15000	3	45,000

Note:-The availability of Replenished Mineral along with depth of total deposit in post-monsoon scenario was investigated by district sub-divisional committee. The results of lease wise investigation is tabulated in the above Table - A-9/Chattarpur/Replenishment/Reserve.


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District Survey Report: Chhatarpur

(17) Details of the Occupational Health issues in the District:

Open cast method involves dust generation by excavation, loading and transportation of mineral. Atsite, during excavation and loading activity, dust is main pollutant which affects the health of workers whereas environmental and climatic conditions also generate the health problems. Addressing the occupational health hazard means gaining an understanding of the source (its location and magnitude or concentration), identifying an exposure pathway (e.g., a means to get it in contact with someone), and determination of likely a receptor (someone receiving the stuff that is migrating).

Occupational hazard due to open cast mining mainly comes under the physical hazards. Possible physical hazards are as below: -

Physical Hazards due to Mining Operations:

Following health related hazards were identified in open cast mining operations to the workers:

Light: - The workers may be exposed to the risk of poor illumination or excessive brightness. The effects are eye strain, headache, eye pain and lachrymation, congestion around the cornea and eye fatigue. In present case, the mining activity is done during day time only.

Heat and Humidity: - The most common physical hazard is heat. The direct effects of heat exposure are burns, heat exhaustion, heat stroke and heat cramps; the indirect effects are decreased efficiency, increased fatigue and enhanced accident rates. Heat and humidity are encountered in hot and humid condition when temperatures and air temperatures increase in summer time up to 46.10C or above in the river bed mining area.

Eye Irritation: - During the high windy days in summer the dust could be the problems for eyes like itching and watering of eyes.

Respiratory Problems: - Large amounts of dust in air can be a health hazard, exacerbating respiratory disorders such as asthma and irritating the lungs and bronchial passages.

Noise Induced Hearing Loss: - Machinery is the main source of noise pollution at the mine site.


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District Survey Report: Chhatarpur

Risk Level using Risk Matrix: Risk Matrix is used to identify the level of risk involved in various hazards identified.

Chhatarpur District has 10 CHCs and 36 PHCs, which are located very well in each block of the district; district also has 2 hospitals, one in Khajuraho and one in Bijawar. All the CHCs are equipped with 1 ambulance and 30-35 beds respectively, while PHCs consist 10-15 beds and having no ambulance. District also has 195 ANM workers, who are well trained for first aid and primary care.

Table 29 Number of Health Centres in Raiesn District

S. No	Block Name	Health Centre/Hospital	Units	Description
1.	Isanagar	No. of Primary Health Centers (PHCs):	3	No. of medical officers: 1 No. of nurses, compounders (medical/paramedical staff): 11 No. of available ambulances: 0 No. of beds: 30-35
2.		No. of Community Health Centers (CHCs):	1	No. of medical officers: 1 No. of nurses, compounders (medical/paramedical staff): 4 No. of available ambulances: 1 No. of beds: 30-35 No. of trained first aid volunteers in the block and ANM: 27 Total No. of medical stores in the block: 15
3.	Badamaletara	No. of Primary Health Centers (PHCs):	4	No. of medical officers: 2 No. of nurses, compounders (medical/paramedical staff): 6 No. of available ambulances: 0 No. of beds: 10-15
4.		No. of Community Health Centers (CHCs):	1	PGMO: 1 No. of medical officers: 0 No. of nurses, compounders (medical/paramedical staff): 4 No. of available ambulances: 1

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District Survey Report: Chhatarpur

				No. of beds: 30-35 No. of trained first aid volunteers in the block and ANM: 17 Total No. of medical stores in the block: 5
5.	Barigarh	No. of Primary Health Centers (PHCs):	4	No. of medical officers: 2 No. of nurses, compounders (medical/paramedical staff): 7 No. of available ambulances: 0 No. of beds: 40-45
6.		No. of Community Health Centers (CHCs):	1	PGMO: 1 No. of medical officers: 0 No. of nurses, compounders (medical/paramedical staff): 6 No. of available ambulances: 1 No. of beds: 30-35 No. of trained first aid volunteers in the block and ANM: 21 Total No. of medical stores in the block: 5
7.	Buxwaha	No. of Primary Health Centers (PHCs):	1	No. of medical officers: 0 No. of nurses, compounders (medical/paramedical staff): 1 No. of available ambulances: 0 No. of beds: 10
8.		No. of Community Health Centers (CHCs):	1	PGMO: 2 No. of medical officers: 0 No. of nurses, compounders (medical/paramedical staff): 6 No. of available ambulances: 1 No. of beds: 30-35 No. of trained first aid volunteers in the block and ANM: 12 Total No. of medical stores in the block: 4
9.	Rajnagar	No. of Primary Health Centers (PHCs):	8	No. of medical officers: 7 No. of nurses, compounders (medical/paramedical staff): 30 No. of


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District Survey Report: Chhatarpur

				available ambulances: 2 No. of beds: 80-90 No. of trained first aid volunteers in the block and ANM: 33 Total No. of medical stores in the block: 10
10.	Nowgaon	No. of Primary Health Centers (PHCs):	7	No. of medical officers: 6 No. of nurses, compounders (medical/paramedical staff): 1 No. of available ambulances: 0 No. of beds: 70-80
11.		No. of Community Health Centers (CHCs):	1	No. of medical officers: 2 PGMO: 2 Child Specialist: 1 No. of nurses, compounders (medical/paramedical staff): 18 No. of available ambulances: 3 No. of beds: 40 No. of trained first aid volunteers in the block and ANM: 26 Total No. of medical stores in the block: 10
12.	Satal (Bijwar)	No. of Primary Health Centers (PHCs):	5	No. of medical officers: 5 No. of nurses, compounders (medical/paramedical staff): 16 No. of available ambulances: 0 No. of beds: 50
13.		No. of Community Health Centers (CHCs): 1	1	PGMO: 1 No. of nurses, compounders (medical/paramedical staff): 7 No. of available ambulances: 2 No. of beds: 30-35 No. of trained first aid volunteers in the block and ANM: 19 Total No. of medical stores in the block: 10


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14.	Laundi	No. of Primary Health Centers (PHCs):	3	No. of medical officers: 2 PGMO: 1 No. of nurses, compounders (medical/ paramedical staff): 8 No. of available ambulances: 0 No. of beds: 30-35
15.		No. of Community Health Centers (CHCs)	2	No. of medical officers: 1 No. of nurses, compounders (medical/ paramedical staff): 10 No. of available ambulances: 1 No. of beds: 30-35 No. of trained first aid volunteers in the block and ANM: 20 Total No. of medical stores in the block: 10
16.	Khajuraho	No. of Hospitals:	1	No. of medical officers: 2 No. of nurses, compounders (medical/ paramedical staff): 6 No. of available ambulances: 0 No. of beds: 10-15

Malaria control in Madhya Pradesh is complex because of vast tracts of forest with tribal settlement. Fifty four million individuals of various ethnic origins, accounting for 8% of the total population of India, contributed 30% of total malaria cases, 60% of total falciparum cases and 50% of malaria deaths in the country. Ambitious goals to control tribal malaria by launching "Enhanced Malaria Control Project" (EMCP) by the National Vector Borne Disease Control Programme (NVBDCP), with the World Bank assistance, became effective in September 1997 in eight north Indian states. Under EMCP, the programme used a broader mix of new interventions, i.e. insecticide-treated bed nets, spraying houses with effective residual insecticides, use of larvivorous fishes, rapid diagnostic tests for prompt diagnosis, treatment of the sick with effective radical treatment and increased public awareness and IEC.

The strategic plan will serve as the guide to all the districts and the state of Madhya Pradesh to achieve the TB elimination goals. Success of this endeavour will be an important chapter in the history of control of infectious diseases.


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Tuberculosis is a disease dreaded due to its social consequences and age old myths and misconceptions regarding its transmission and treatment. It is more often mistreated by the unqualified and untrained thus leading to patients suffering physically and monetarily. Elimination of Tuberculosis will entail mammoth efforts by each and every stakeholder involved. The launch of this document provides with the necessary roadmap and momentum, in direction of meeting the goals specified.


Table 30 National T.B. Elimination Programme (2021)

Case Notification 2021									
Name of TU	Public			Private			Total		
	Annual Target	Achievement	% Age	Annual Target	Achievement	% Age	Annual Target	Achievement	% Age
Bijawar	380	179	47	0	0	0	380	179	47
Chhatarpur	840	1050	125	1200	1190	99	2040	2240	110
Luv Kush Nagar	480	285	59	0	0	0	480	285	59
Nowpang	1200	1605	134	6500	11985	184	7700	13590	176
District	2900	3119	107	7500	13175	176	10400	16294	157

Total Notification	Chhatarpur	Outside district
3119	2371 (176%)	748 (24%)

Total Notification	Chhatarpur	Outside district
13175	1309 (23.6%)	10066 (76.4%)

Year	Total Notified
	Public Sector
2017	2834
2018	2979
2019	3607
2020	4227
2021	3004
2022	421


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District Survey Report: Chhatarpur

(18) 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 effectively used at various places

By planting trees we can achieve the dual purpose of bioaesthetics 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.

Table 31 Recommended Plant species for green belt development/plantation.

S.No.	Botanical Name	Family	Common Name
1.	Bougainvillea glabra Choisy	Nyctaginaceae	Boogebel
2.	Hibiscus rosa-sinensis L.	Malvaceae	Gurhal
3.	Nerium indicum Mill.	Apocynaceae	Kaner
4.	Plumeria rubra L.	Apocynaceae	Champa
5.	Tabernaemontana divaricata (L.) R. Br. Ex Roem. & Schult	Apocynaceae	Chandni
6.	Ailanthus excels Roxb.	Simaroubaceae	Maha nimbi
7.	Alstonia scholaris (L.) R.Br	Apocynaceae	Chitvan
8.	Cassia Fistula L.	Caesalpinaceae	Amaltas
9.	Butea monosperma (Lamk) taub	Fabaceae	Khakra/ Palash
10.	Nyctanthes arbour-triste L.	Oleaceae	Harsingar


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11.	<i>Azadirachta indica</i> A. Juss	Meliaceae	Neem
12.	<i>Ficus religiosa</i> L.	Moraceae	Pipal
13.	<i>Pterospermum acerifolium</i> Willd	Sterculiaceae	Kanak Changra
14.	<i>Tectona grandis</i> L.	Verbenaceae	Teak/ Sagun
15.	<i>Terminalia catappa</i> L.	Combretaceae	Jangli badam
16.	<i>Ziziphus mauritiana</i> Lamk.	Rhamnaceae	Badu ber

Plantation has been done by project proponent on Barrier Zone, Non Mining Area, Approach road, nearby river bank and ravines etc. as per the suggestions of the authority.

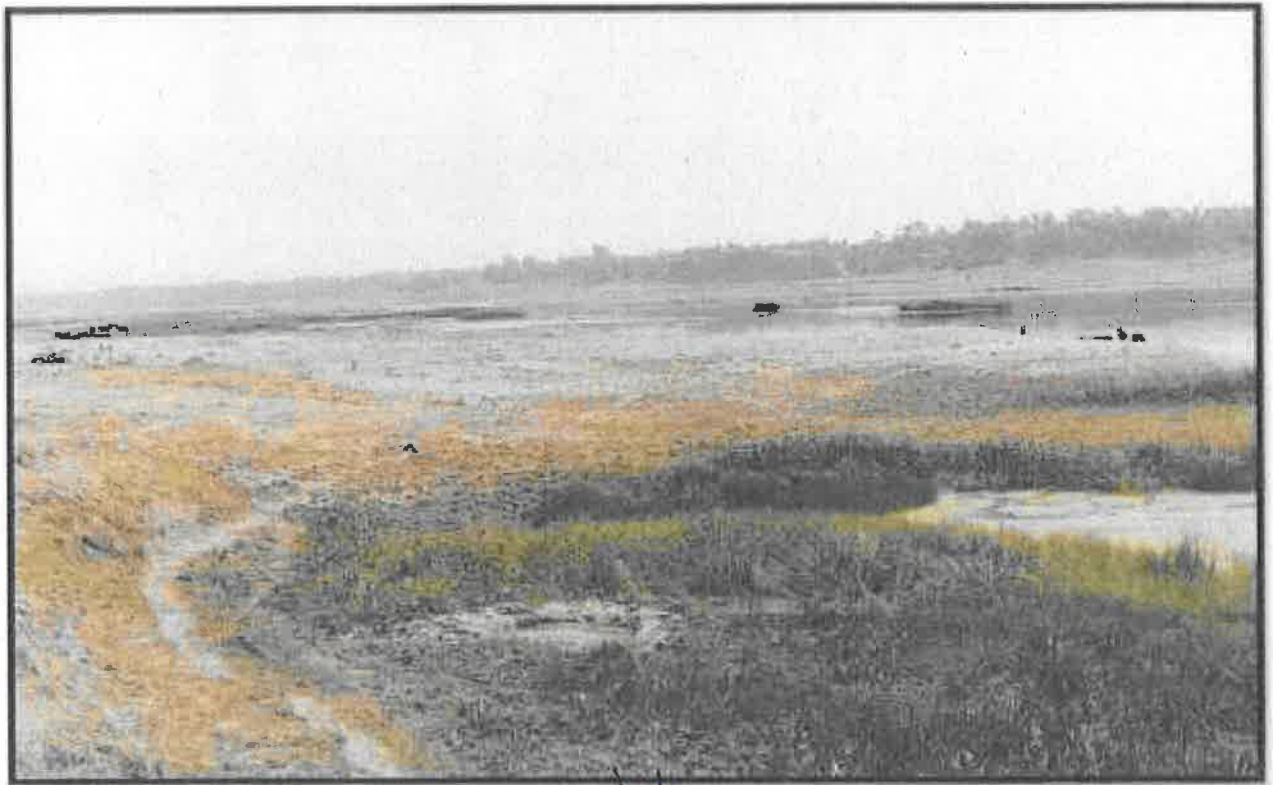



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Assessment Authority, M.P.
(EPCO)
Paryouvan Parisar
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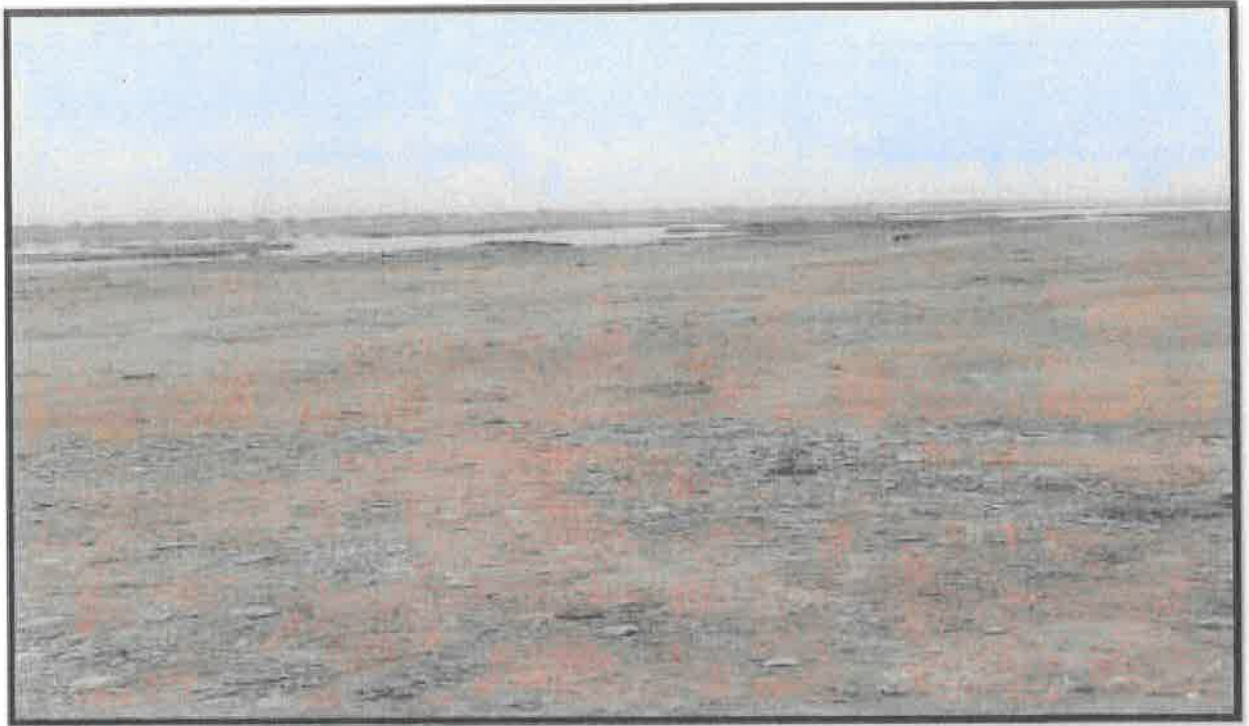
PHOTOGRAPHS OF
SAND MINES IN
CHHATARPUR
DISTRICT



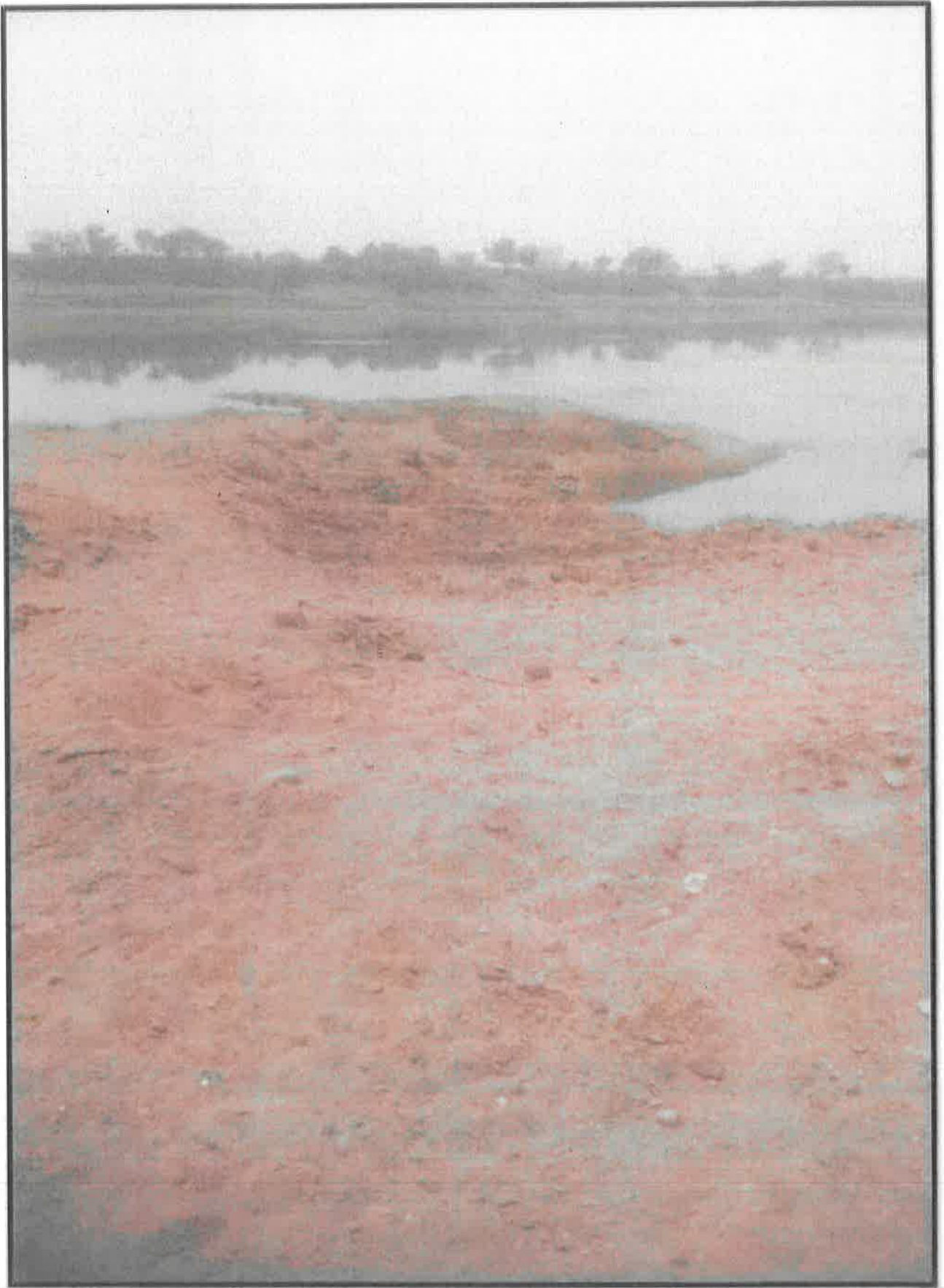
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Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)



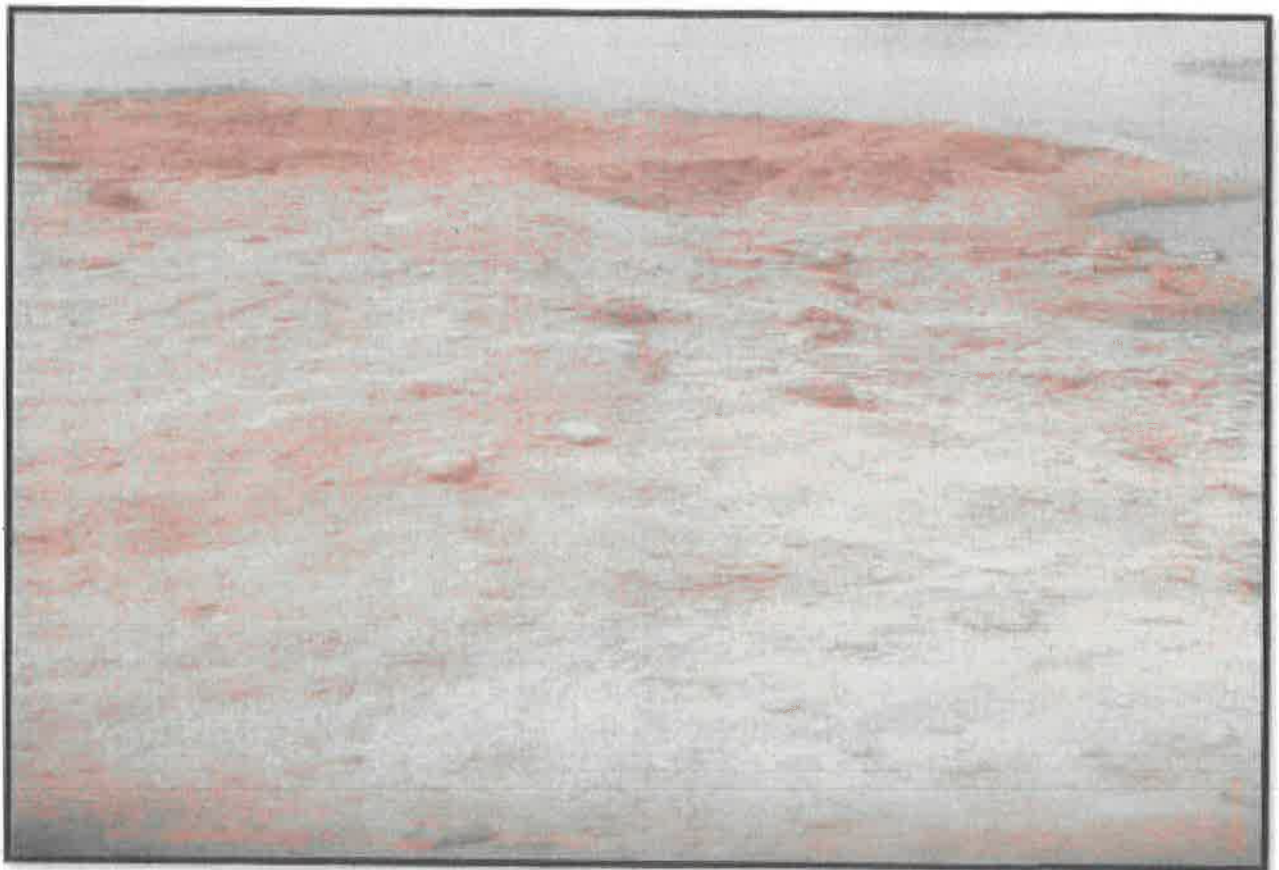
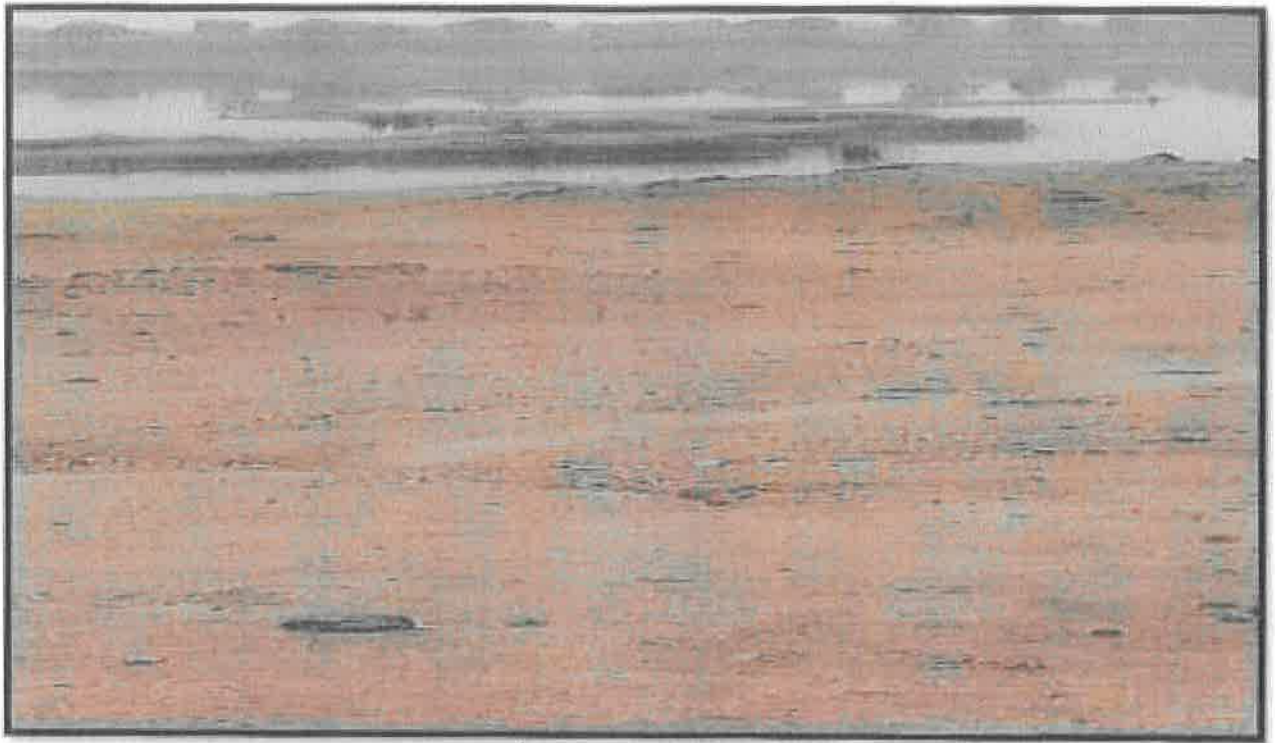

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(EPCO)
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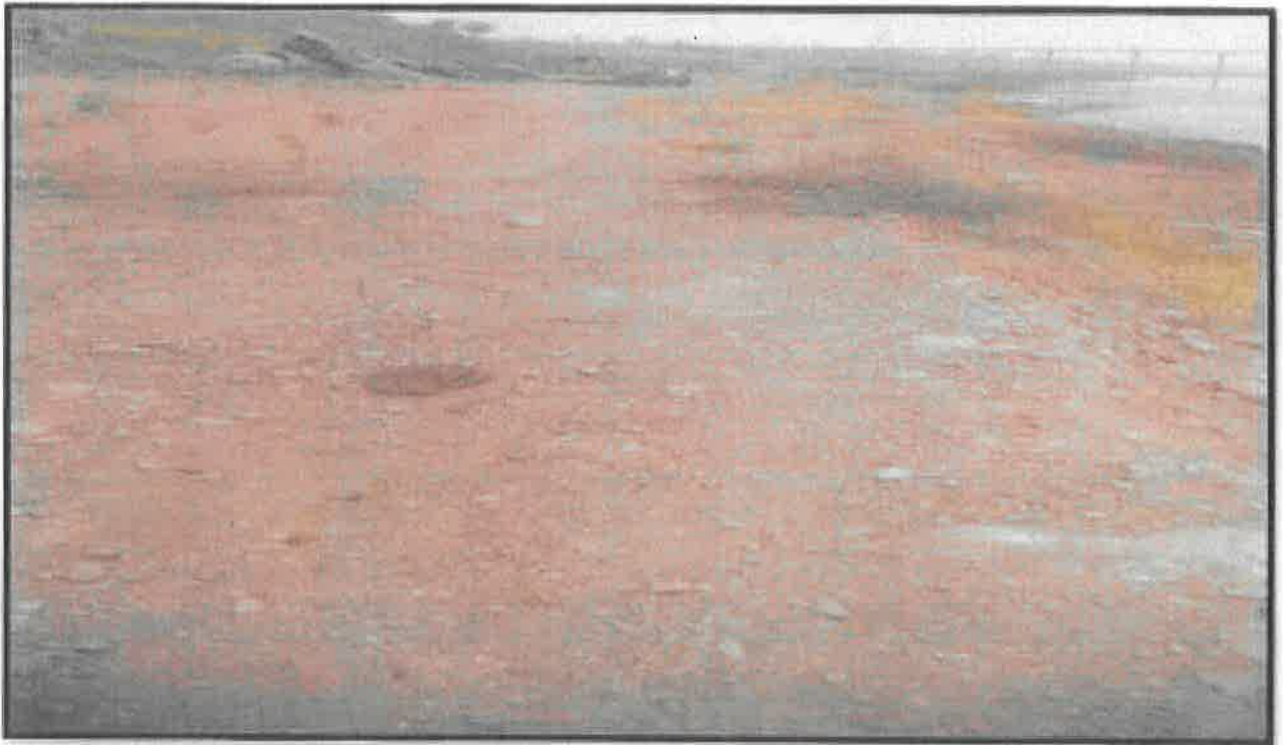
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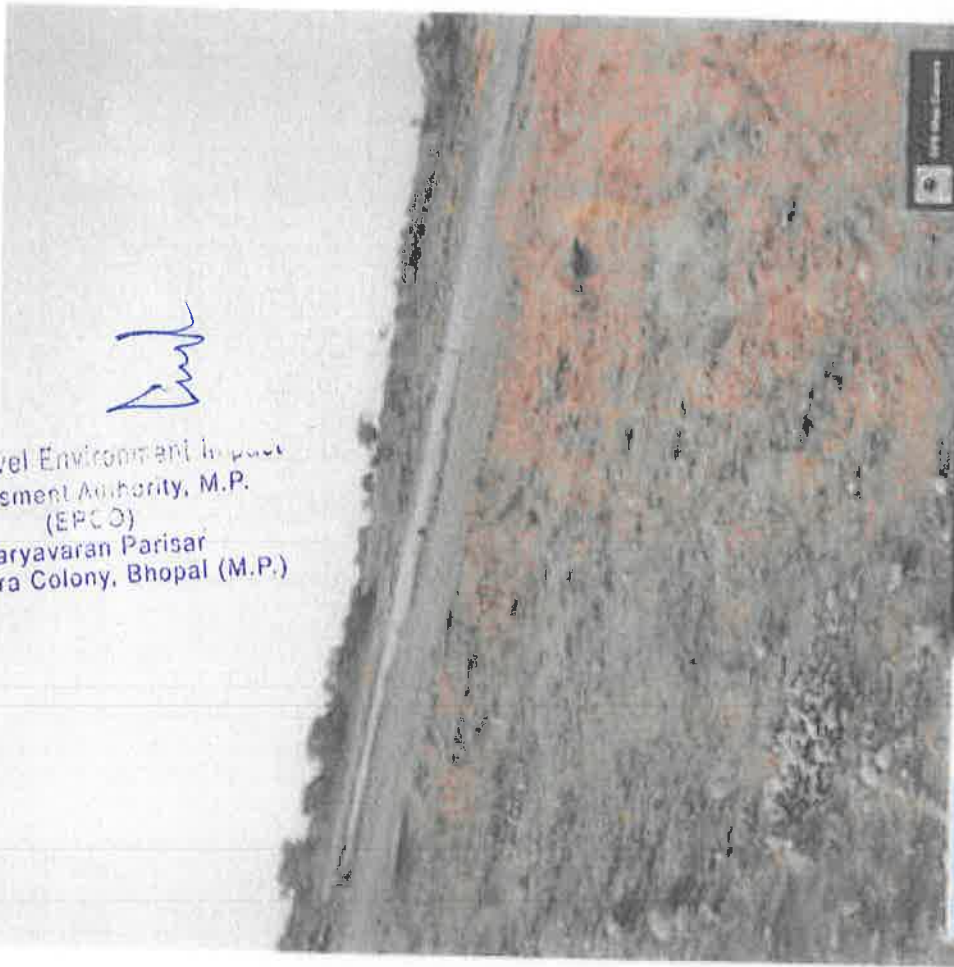

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Level Environment Impact
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(EPCO)
Paryavaran Parisar
F 5, Arera Colony, Bhopal (M.P.)

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Chhatarpur, Madhya Pradesh, India
Madhya Pradesh 471525, India
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Long 80.297619°
17/05/22 04:36 PM



Chhatarpur, Madhya Pradesh, India
Madhya Pradesh 471525, India
Lat 25.367608°
Long 80.319606°
17/05/22 03:41 PM



State Level Environment Impact
Assessment Authority, M.P.
(SEIAA)
Paryashad Bhawan
E-5, Arera Colony, Bhopal (M.P.)

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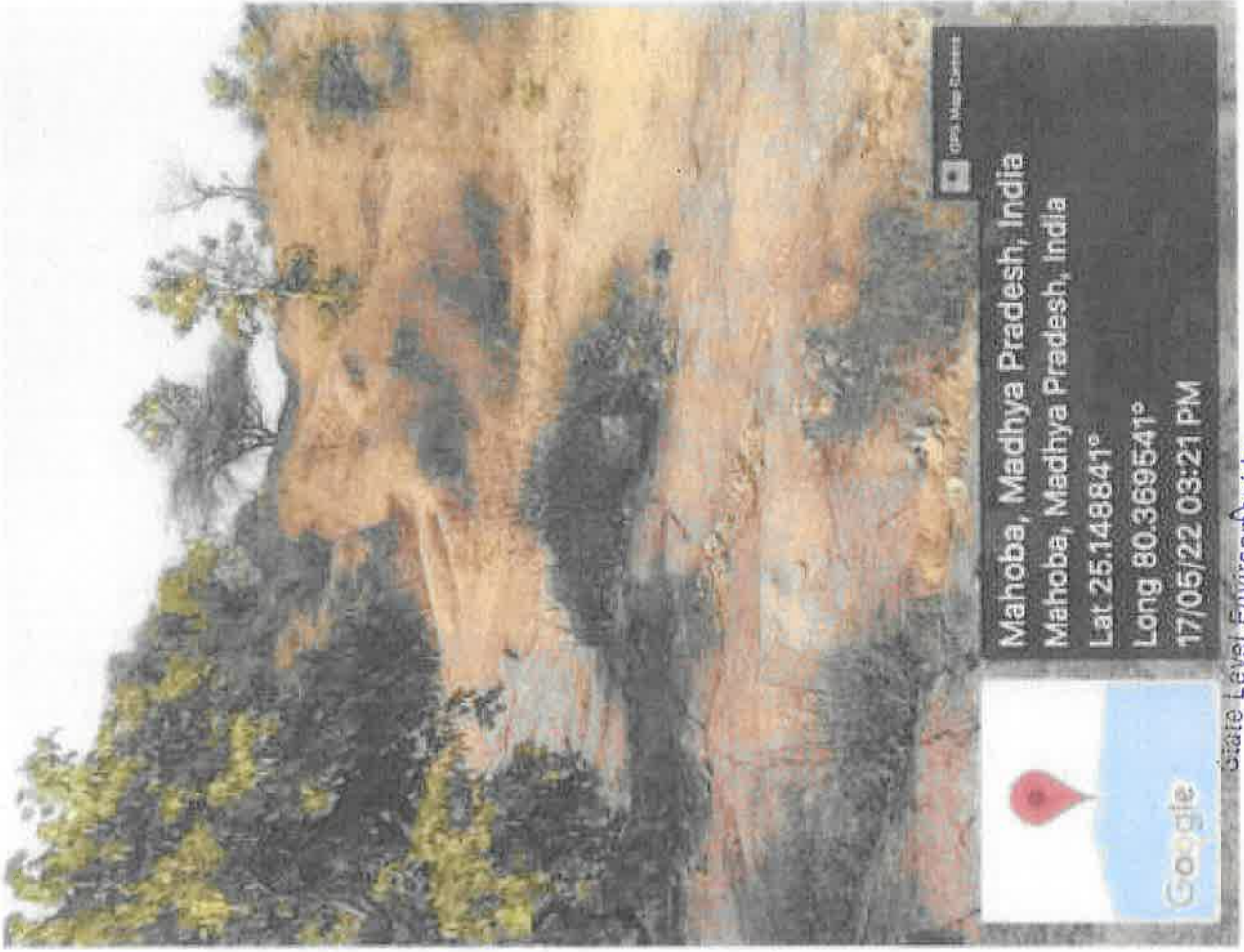
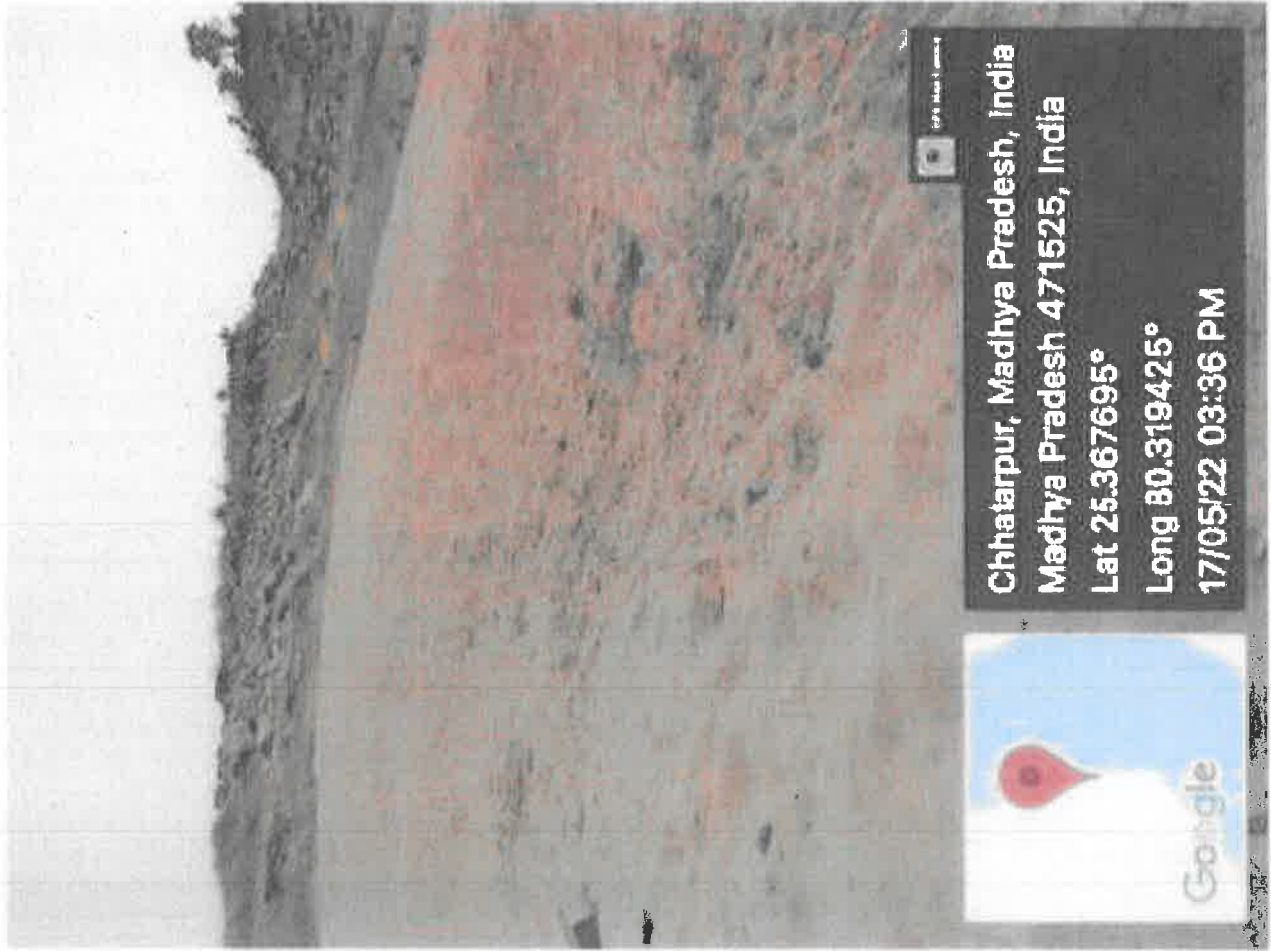


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State Level Environment Impact
Assessment Authority, M.P.
(SEIAA)
Paryayog Parisar
E-6, Arera Colony, Bhopal (M.P.)



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Rampurghat, Madhya Pradesh, India
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Long 80.357781°
17/05/22 03:58 PM



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

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



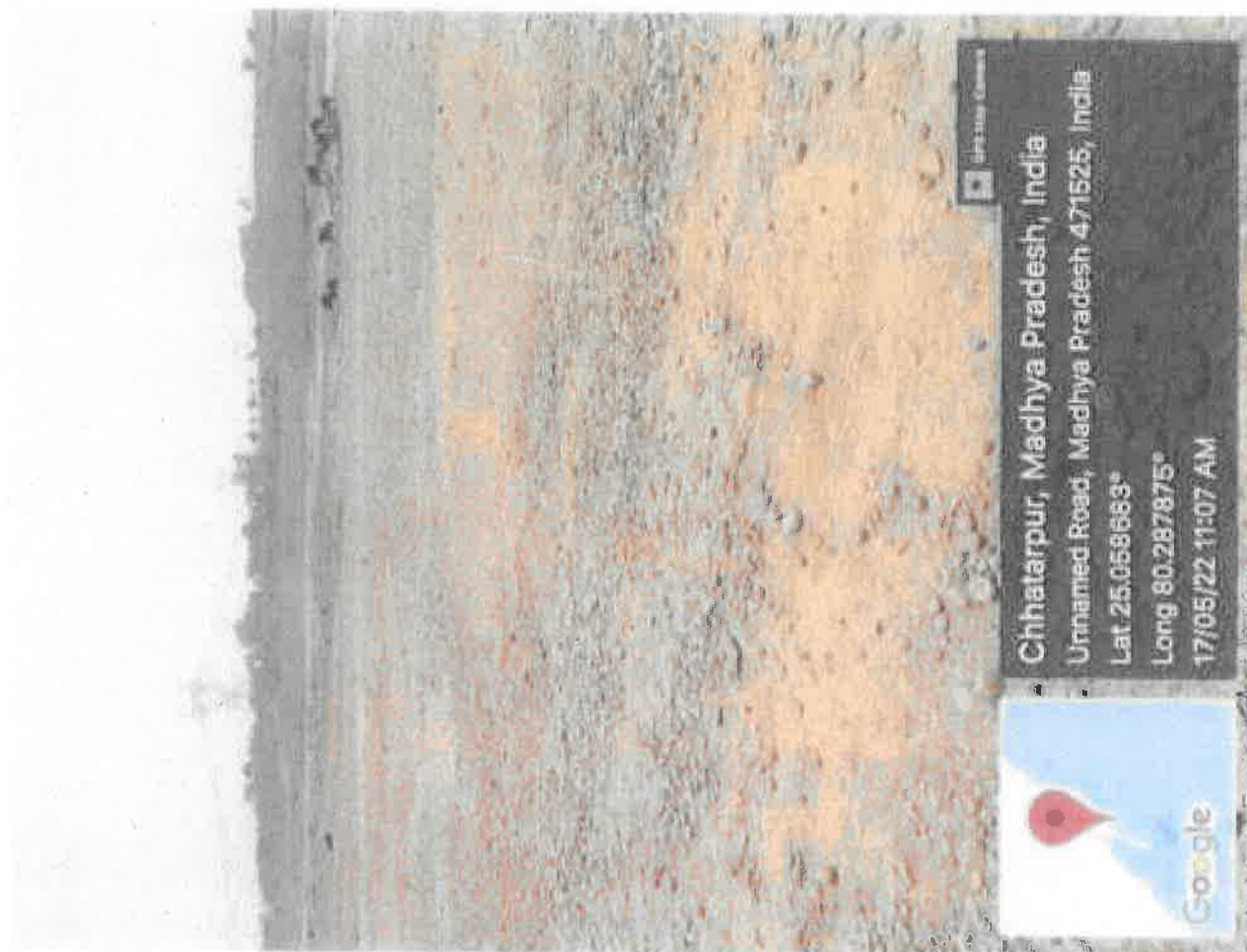
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Chhatarpur, Madhya Pradesh, India

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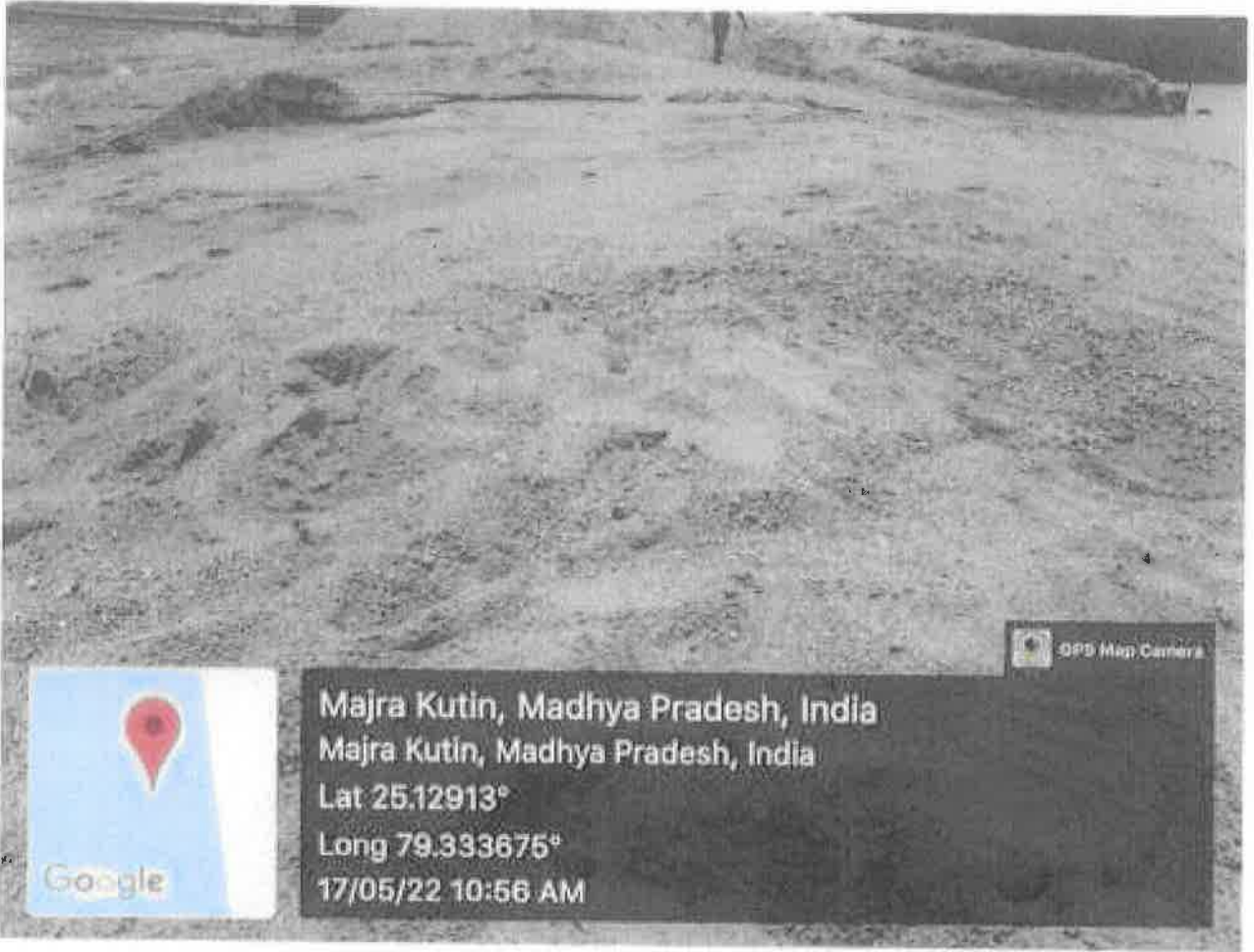
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State Level Environment Impact

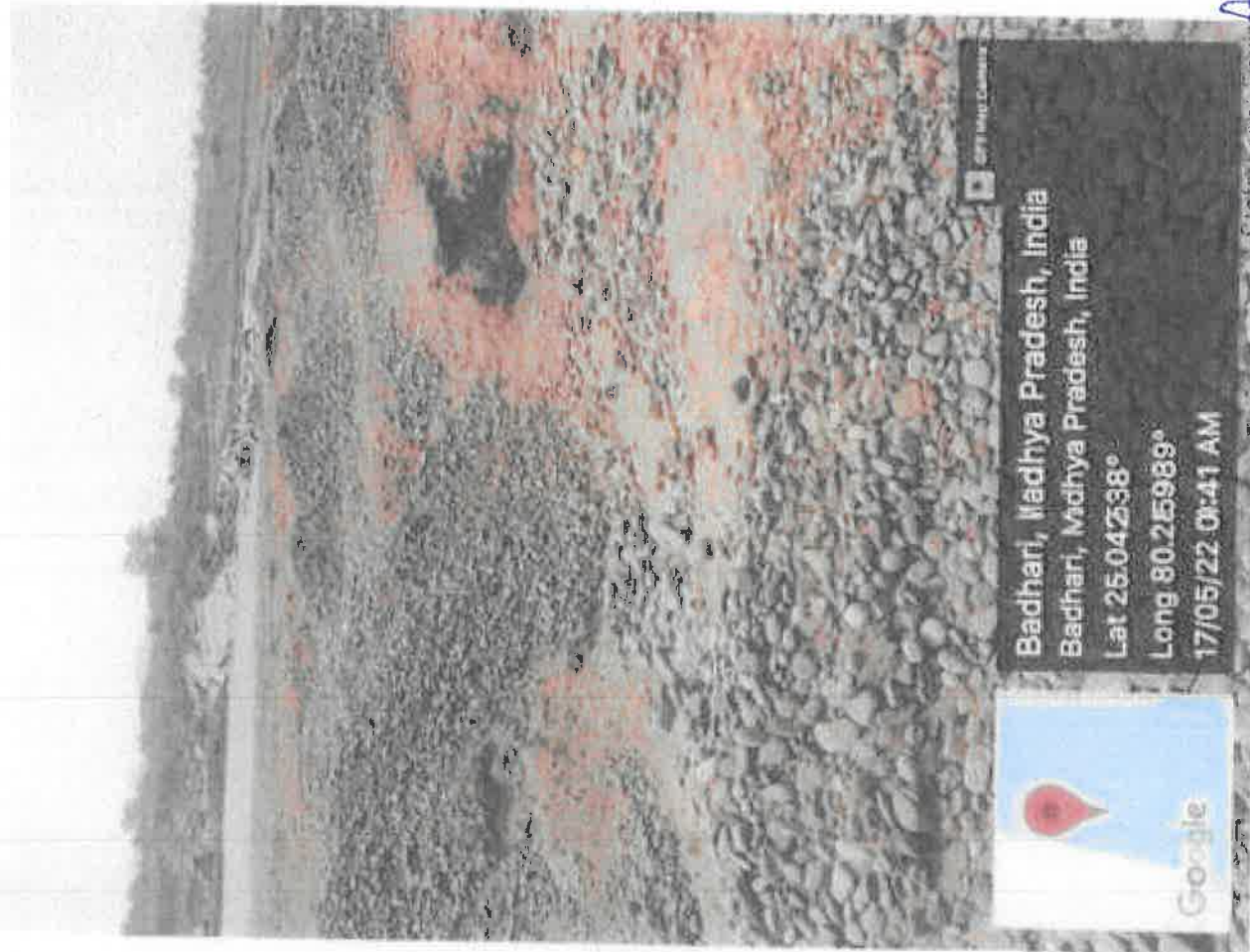
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Paryavaran Parisar

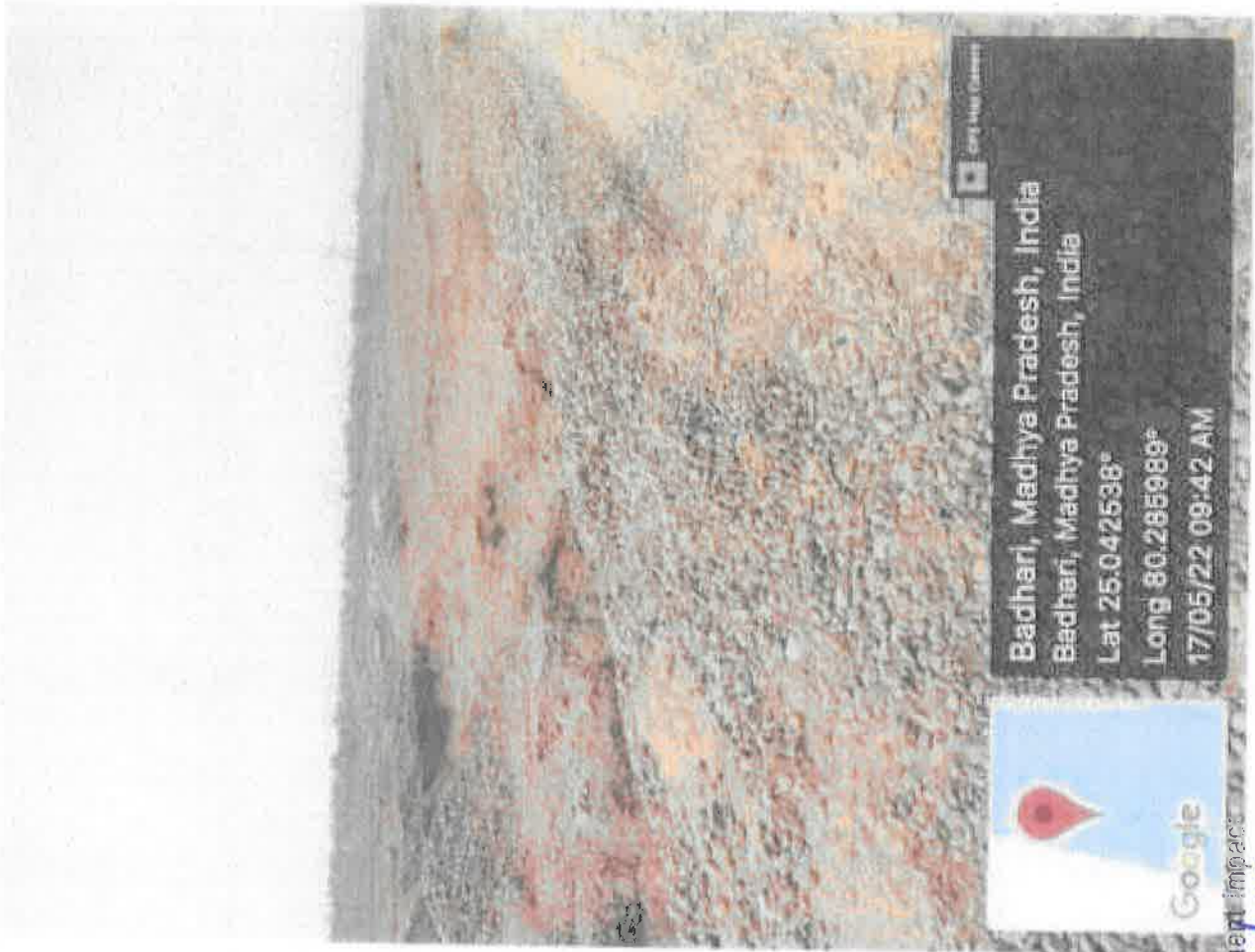
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District Level Environmental Impact
Assessment Authority, M.P.
(EPA) (EPA)
Parivaran Parisar
E-5, Arera Colony, Bhopal (M.P.)



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Badhari, Madhya Pradesh, India
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Long 80.25989°
17/05/22 09:41 AM



Badhari, Madhya Pradesh, India
Badhari, Madhya Pradesh, India
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State-Level Environmental Impact
Assessment Aukhadi, M.P.
(EPCO)
Paryavaran Parishar
E-5, Arera Colony, Bhopal (M.P.)



2018 Map Camera

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Lasgarha, Madhya Pradesh, India

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Long: 80.2137°

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State Level Environment Impact
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Panna
Bharisaf
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2018 Map Camera

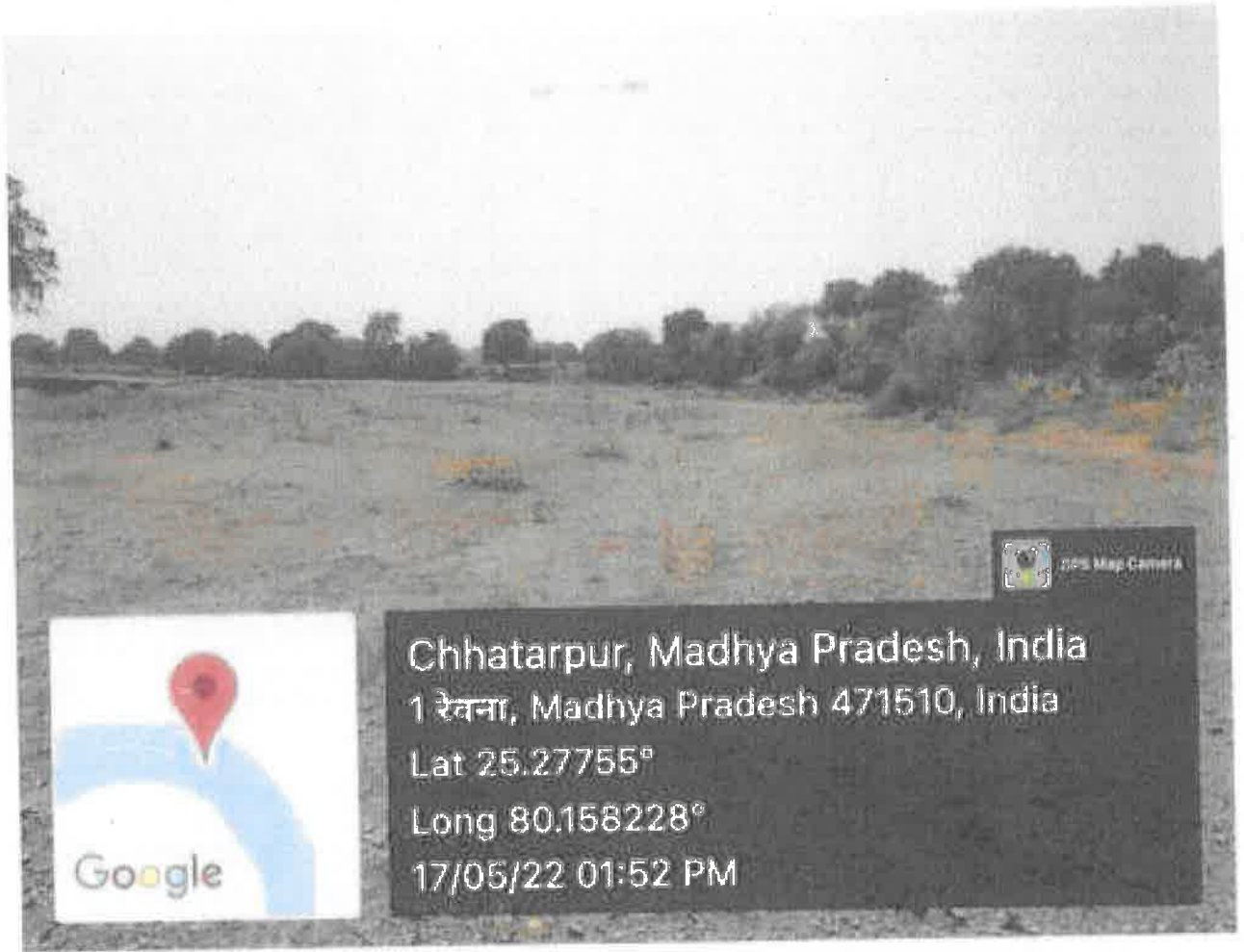
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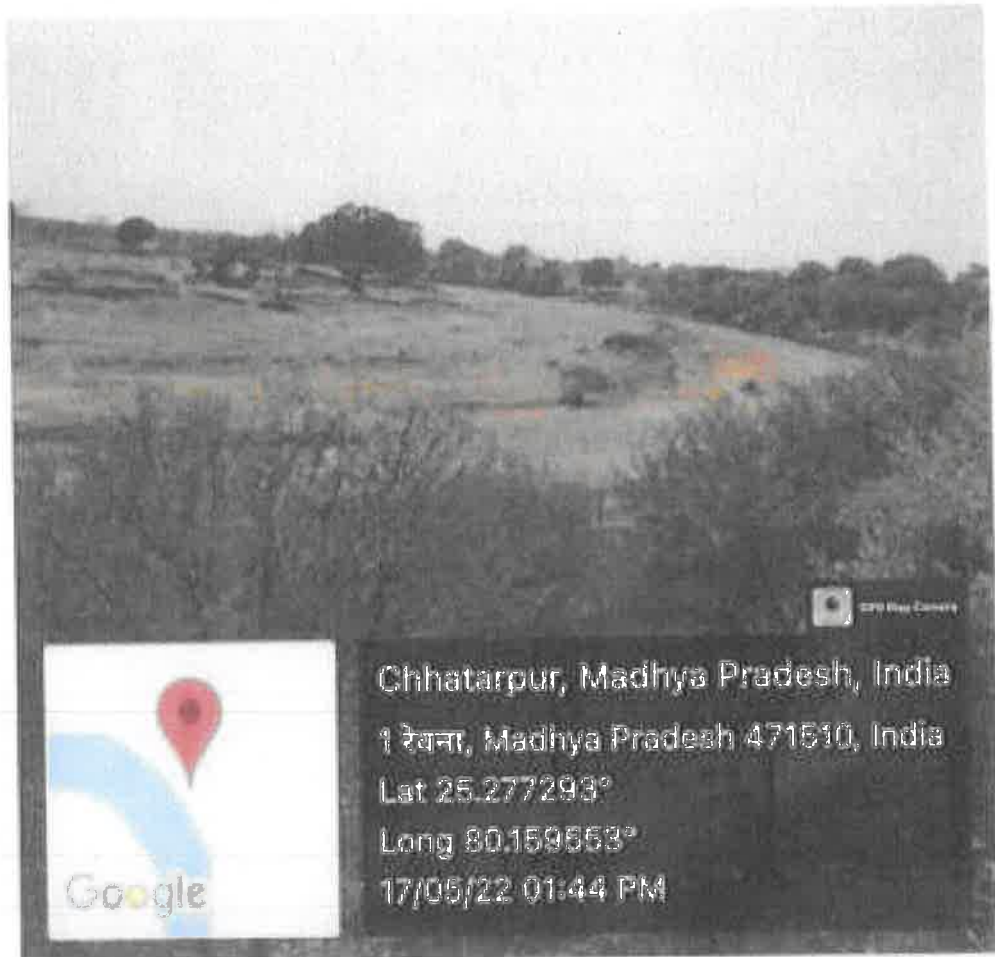
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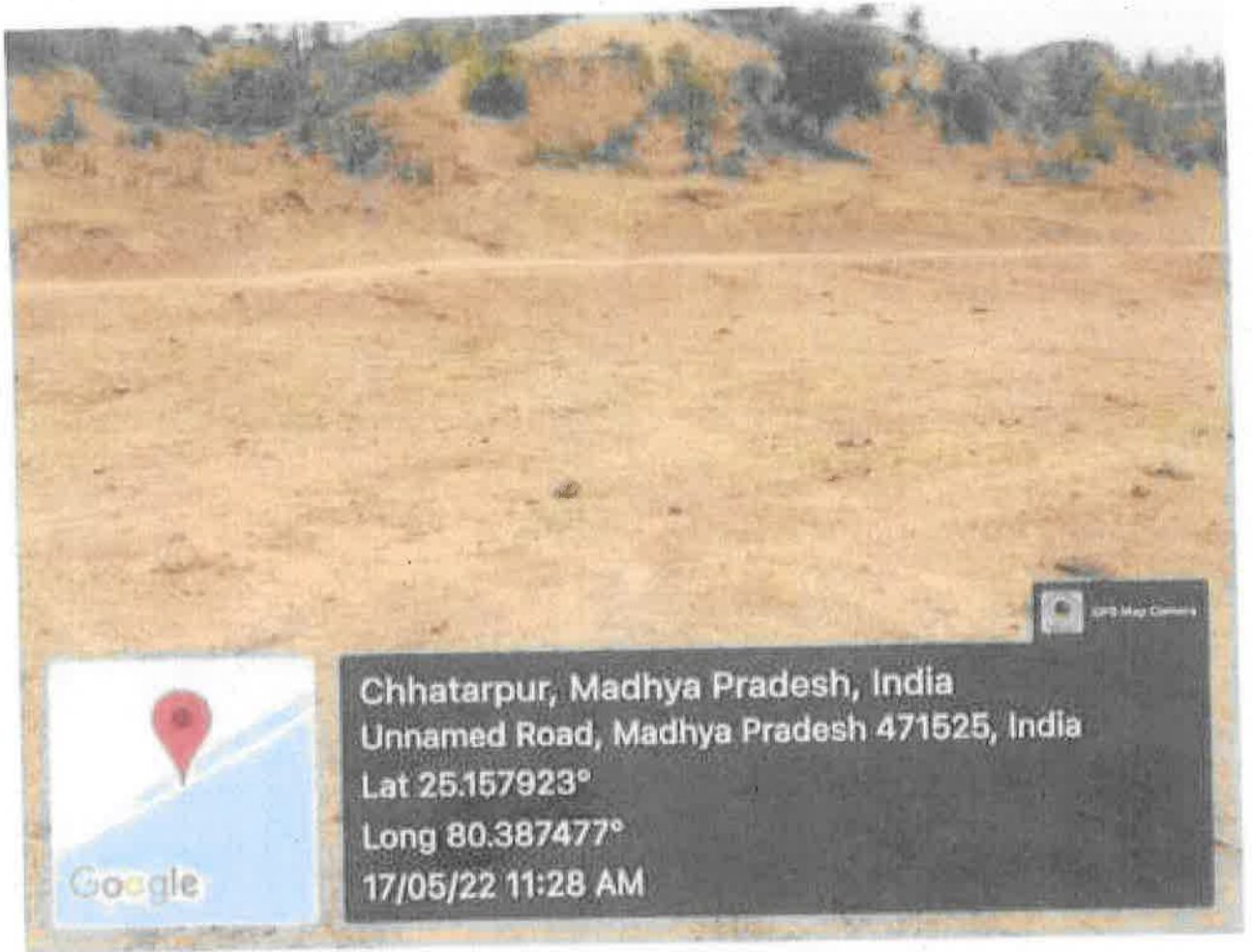
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Chhatarpur, Madhya Pradesh, India
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Long 80.159553°
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Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar
E-6, Arera Colony, Bhopal (M.P.)



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

GOOGLE IMAGES OF
SAND MINES IN
CHHATARPUR
DISTRICT

Arsh

GOOGLE MAP
OF

TILA-2 SAND MINE

AREA - 6.0 Ha. VILLAGE - TILA

THESIL - NOWGAON & DISTRICT - CHHATTARPUR (M.P.)

LESSEE - EUPHORIA MINES AND MINERALS

(Not to Scale)



6000 Feet

2241 m

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

Imagery © 2020 CNES/Airbus

Google Earth

Manager Date: 6/11/2018 25°10'20.76" N 79°1'0'58.55" E Elev: 198.11 Eye Alt: 1.26 km C



GOOGLE MAP OF SAND MINE
 AREA - 40 HE VILLAGE - TILA, BHISHI - NOWGADON,
 DISTRICT - CHHATTARPUR (M.P.)
 LESSE-LEPHORIA MINES AND MINERALS
 (Not to Scale)

0.112016

Google Earth

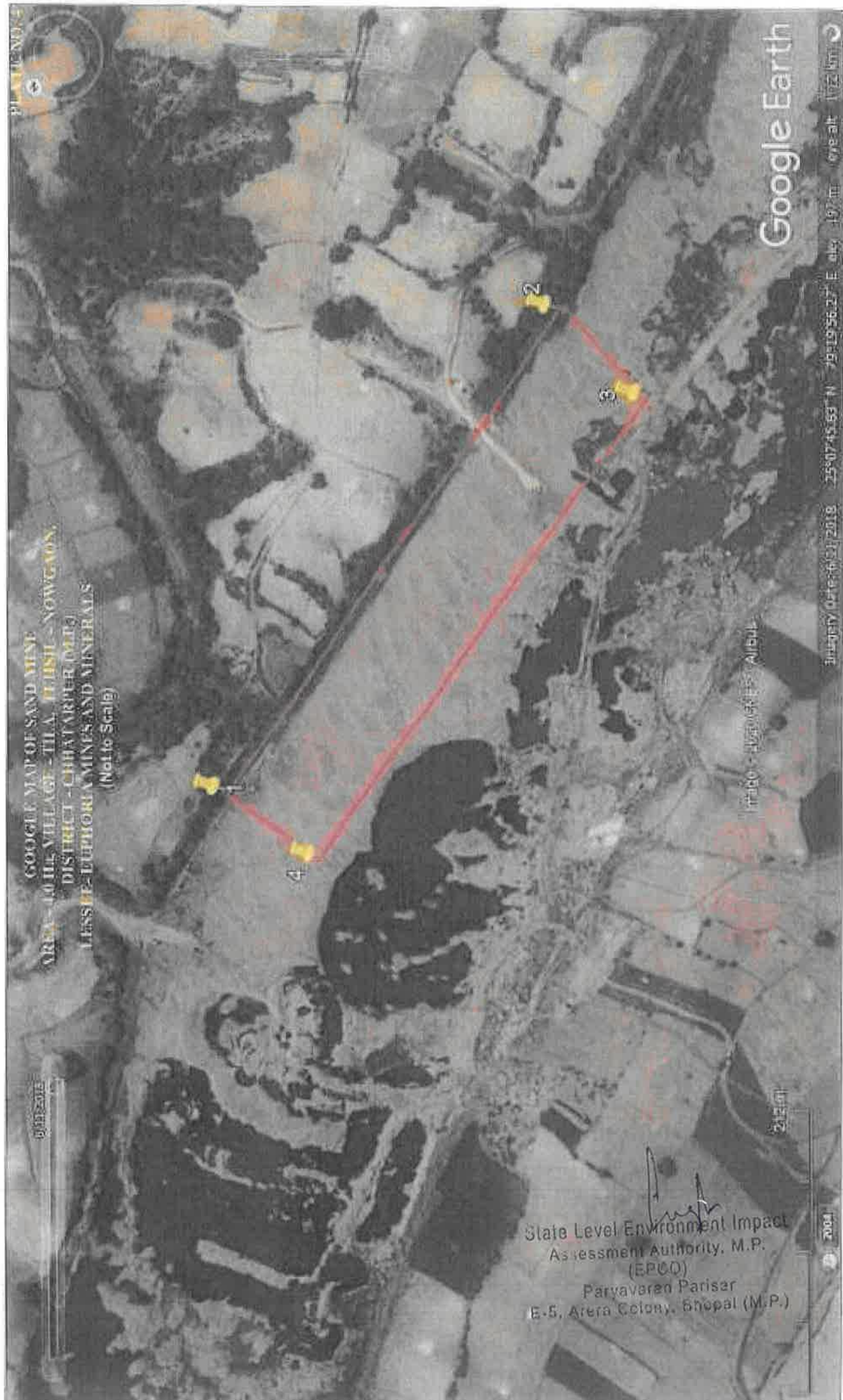
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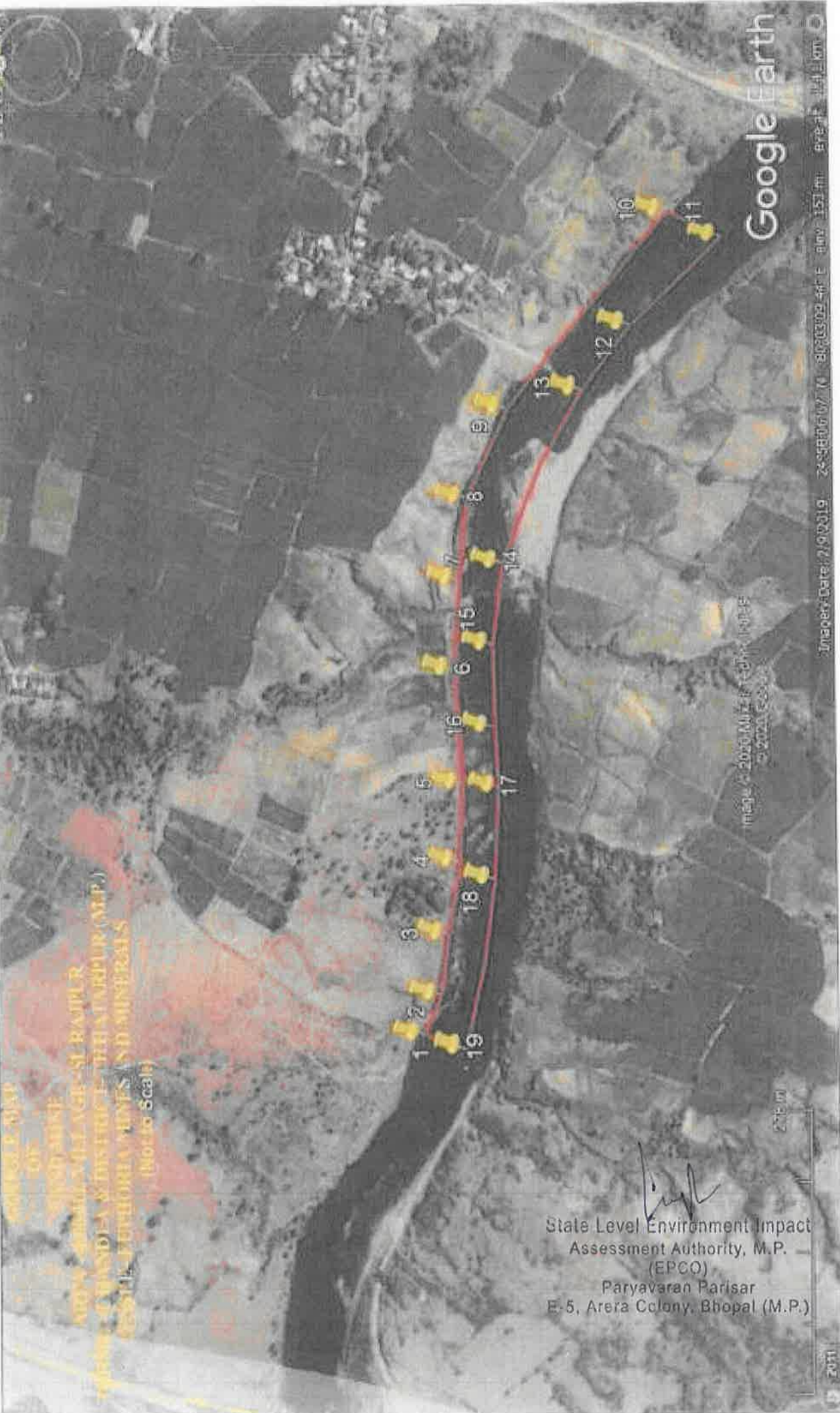
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Slate Level Environment Impact
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 (EPCO)
 Paryavaran Pariser
 E-5, Arera Colony, Bhopal (M.P.)

2004





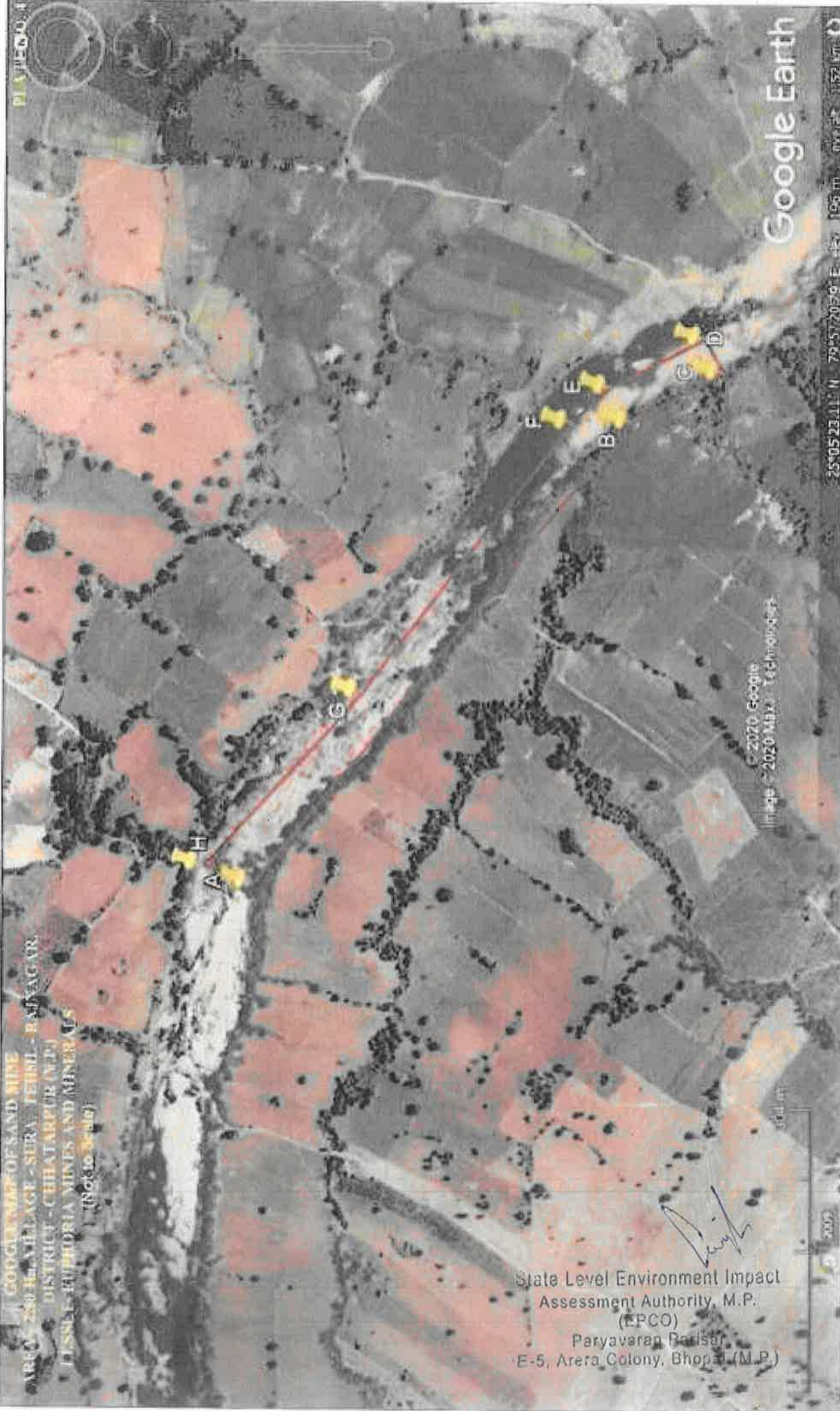
Source: Map
 for
 preparation
 of
 State Level Environment Impact
 Assessment Report for
 the
 proposed
 Bhopal - Jabalpur
 Expressway (M.P.)
 under
 the
 National
 Highways
 Authority
 (NHAI)
 (Not to Scale)

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 Assessment Authority, M.P.
 (EPCO)
 Paryavaran Parisar
 E-5, Arera Colony, Bhopal (M.P.)

Image © 2020 Mapbox, © 2020 Google

GOOGLE MAP OF SAND MINE
VAREG, 2300 Ha. VILLAGE - SURA, TEHSI - RAMNAGAR,
DISTRICT - CHHATARPUR (N.P.),
JESSAR - KUPHORIA MINES AND MINERALS
(No. 10 of 1967)

PLATE NO. 1



Google Earth

25°05'23.11" N 79°57'20.79" E Alt: 196 m 07/12/2009

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Images © 2020 Max Technologies

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

GOOGLE MAP
OF
SAND MINE
AREA - 40th VILLAGE SADKAR
TEHSEIL - JAMOLA & DISTRICT - CHHATTARPUR/SONBH
JHARKHAND
PROJECT - EUPHORIA MINES AND MINERALS
(North Scale)



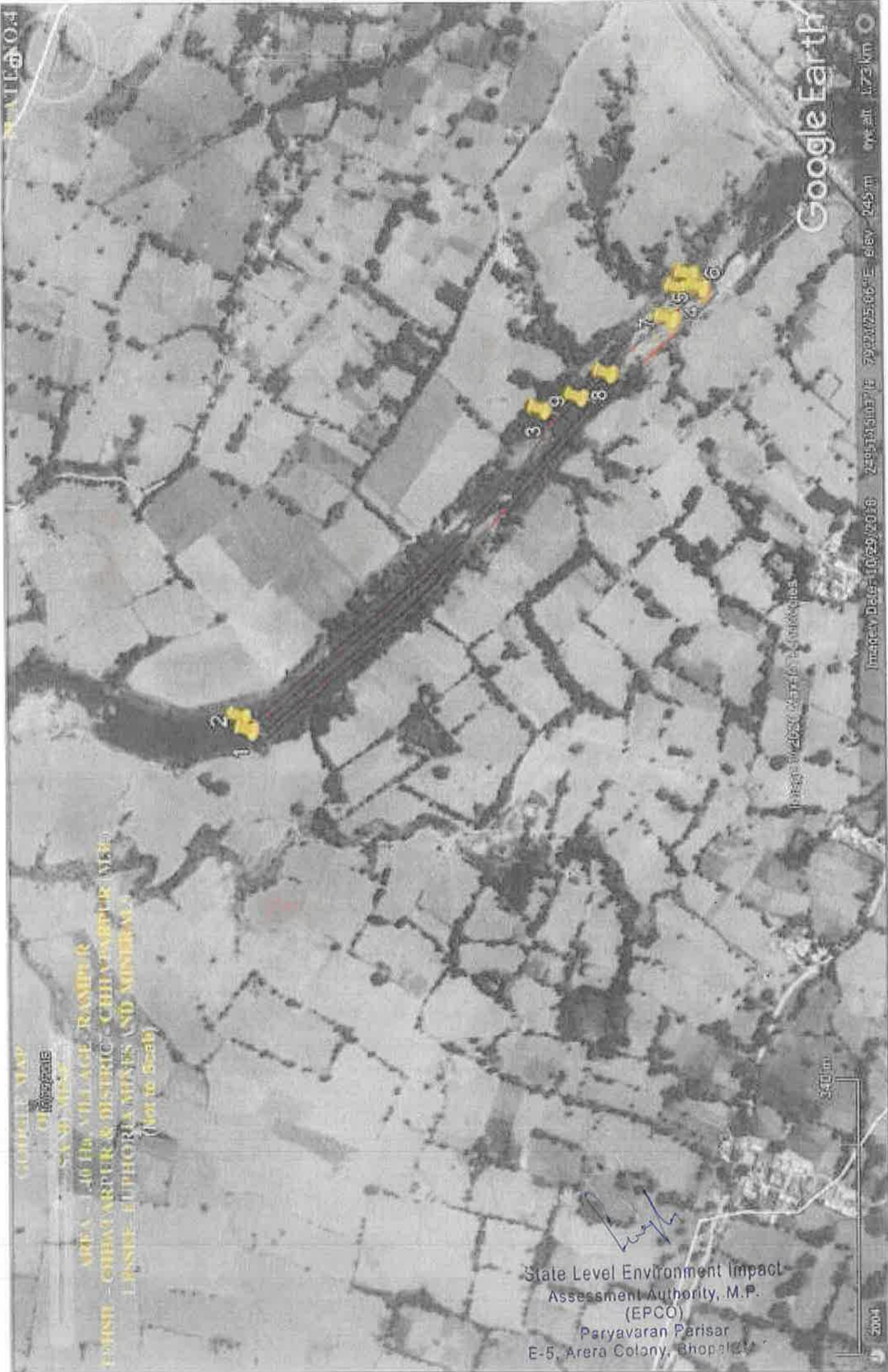
Image © 2020 Microsoft Corporation

Google Earth

Scale

167 m

[Signature]
State Level Environment Impact
Assessment Authority, M.P.
(SEIAA)
Paryavaran Pariksha
G-5, Arera Colony, Bhopal (M.P.)



VIEW 0.4

Google Earth

0.73 km

243 m

25.66°E

79.181037°E

10/29/2018

25.97851037°E

79.181037°E

10/29/2018

Imagery Date

10/29/2018

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10/29/2018

GLOBAL MAP

IMAGERY

SATELLITE

STREET VIEW

3D

COMPASS

MEASUREMENTS

Layers

Full Screen

Help

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GLOBAL MAP
IMAGERY
SATELLITE
STREET VIEW
3D
COMPASS
MEASUREMENTS
Layers
Full Screen
Help
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AREA - 40 Ha, VILAGE, RAMDUR
CHHWA, RABER & DISTRICT - CHHWA, RABER (M.P.)
ISSUE - LITHORAX MINES (ND MINERAL)
(Not to Scale)

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

500m

2018

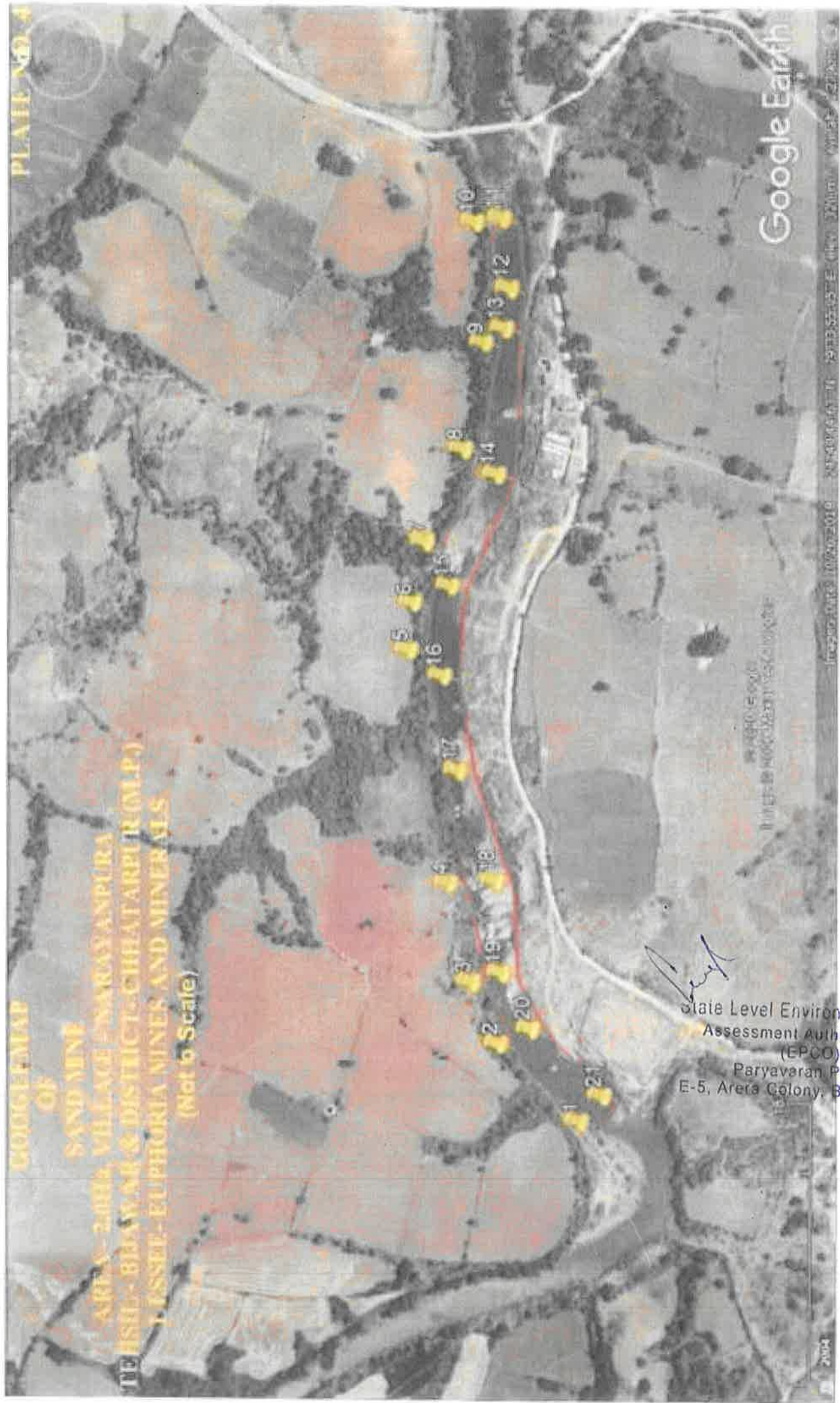
GOOGLEMAP

OF

SAND MINE

AREA - 2004, VILLAGE - NARAYANPURA
TEHSIL - BAWANAR & DISTRICT - CHEHATARPUR (M.P.)
LESSEE - EUPHORIA MINES AND MINERALS

(Not to Scale)



[Signature]

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

**GOOGLEMAP
OF
SAND MINE**

**AREA - 550 Ha. VILLAGE - MORRA
TOWNSHIP - BADA MACHARA & DISTRICT - CHHATARPUR (M.P.)
PLEASE EUTHORIA MINES AND MINERALS
(Not to Scale)**



Google Earth

Image Date: 11/20/2018 24°45'44.90" N 79°18'17.51" E Elev: 276m Eye Alt: 1.85 km

Imagery © 2001, 2004, 2006, 2008, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018
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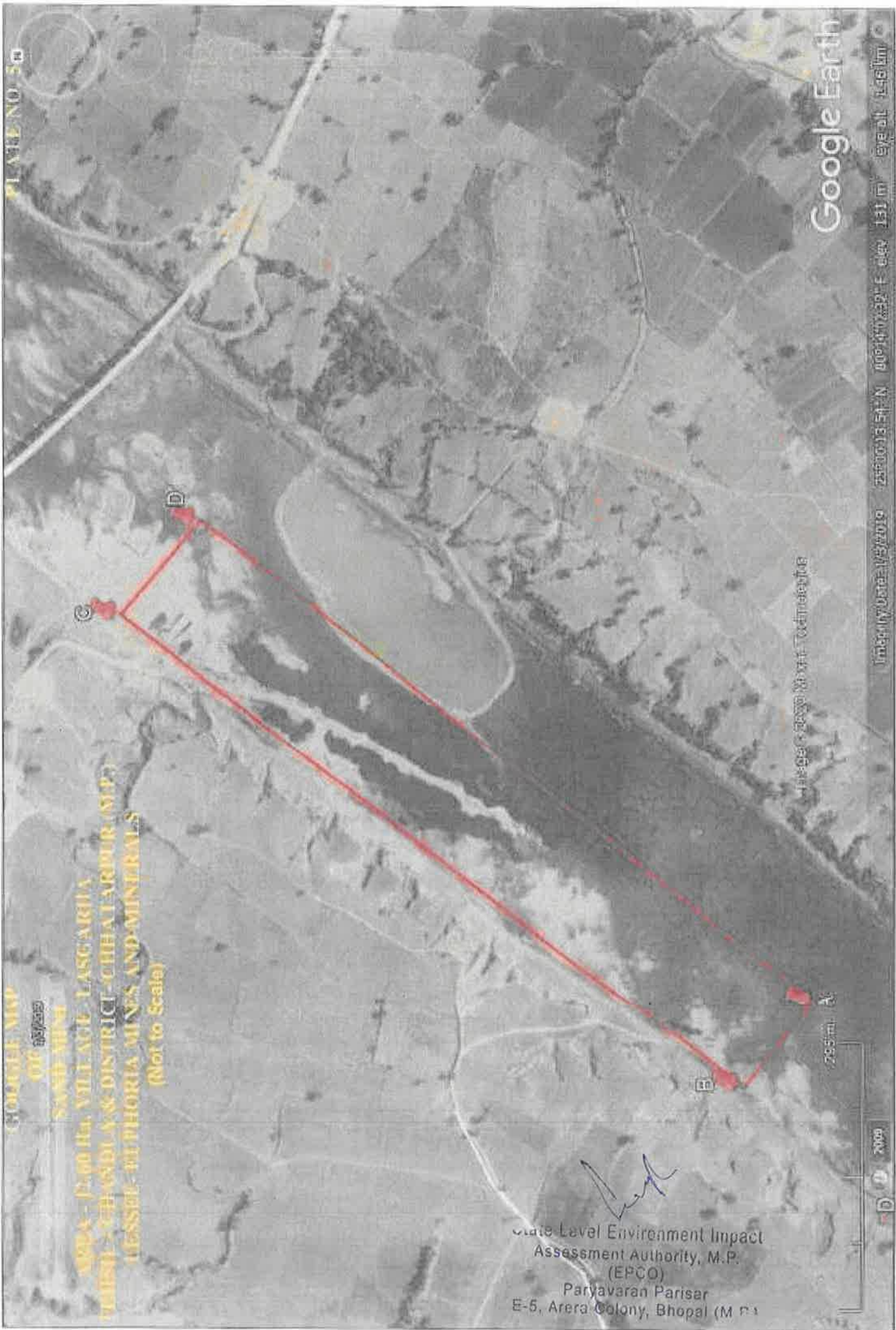
State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.F)

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COASTAL MAP
000 05/2009
SAND MINES

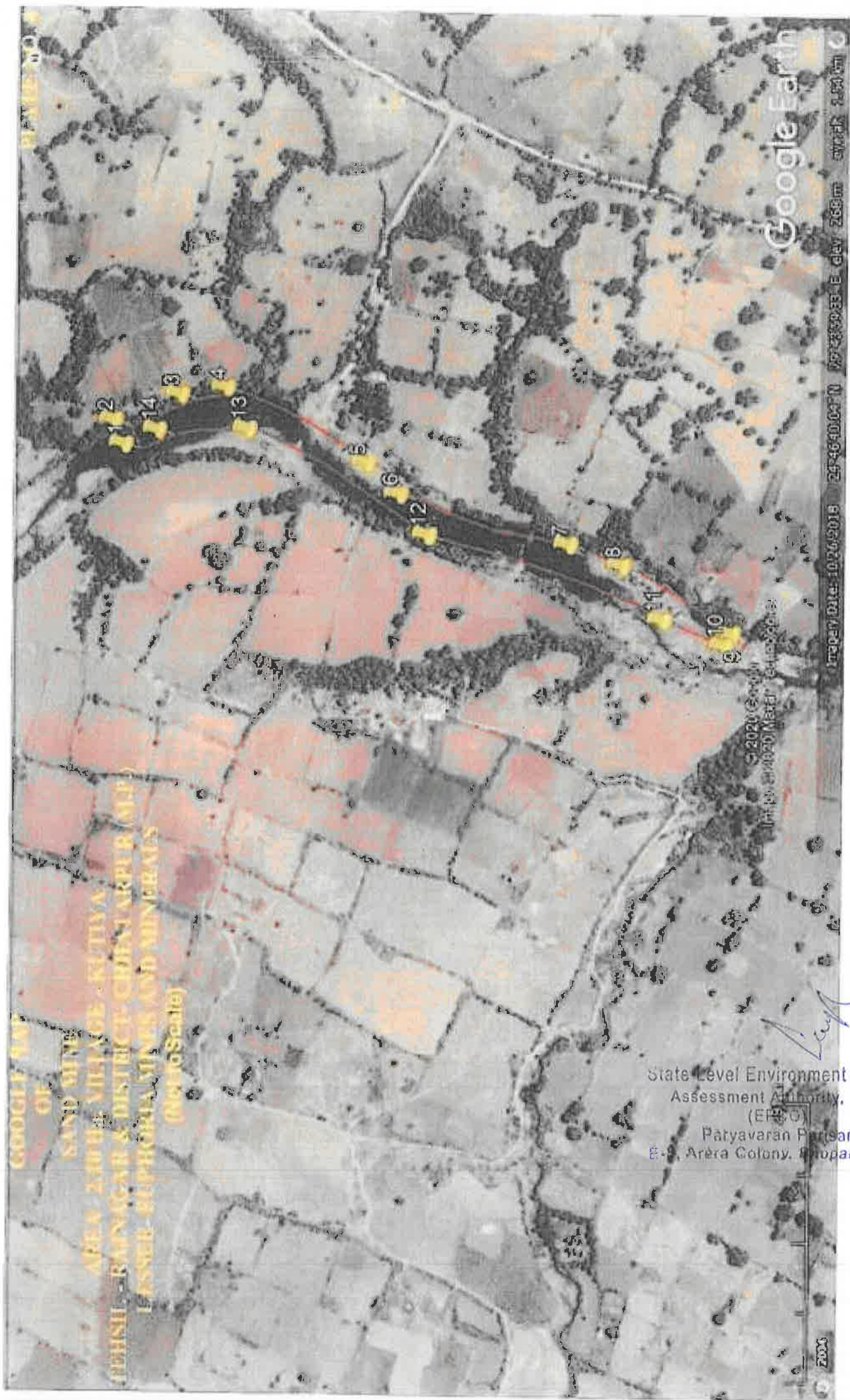
APPX - 2.00 Ha. VILLAGE - LASEGAHIA
TALUKA - CHHINDAPUR DISTRICT - CHHATTARPUR (M.P.)
CESSIE - BHUPORIA MINES AND MINERALS
(Not to Scale)

PLATE NO. 5



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

Google Earth



GOOGLE EARTH
 SAND MINE
 AREA 2300ft VILLAGE - KUTHYA
 (CHHISIL - RAJNAGAR & DISTRICT - CHHISIL ARBER M.P.)
 LESSER PHOSPHORUS MINES AND MINERALS
 (Not to Scale)

Google Earth

Map Date: 10/26/2018 25°46'40.04"N 82°23'09.33"E elev 269m 4/14/11

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State Level Environment Impact
 Assessment Authority, M.P.
 (EPCO)
 Paryavaran Parisar
 E-3, Arera Colony, Bhopal (M.P.)

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GOOGLEMAP

OR

SAND MINE

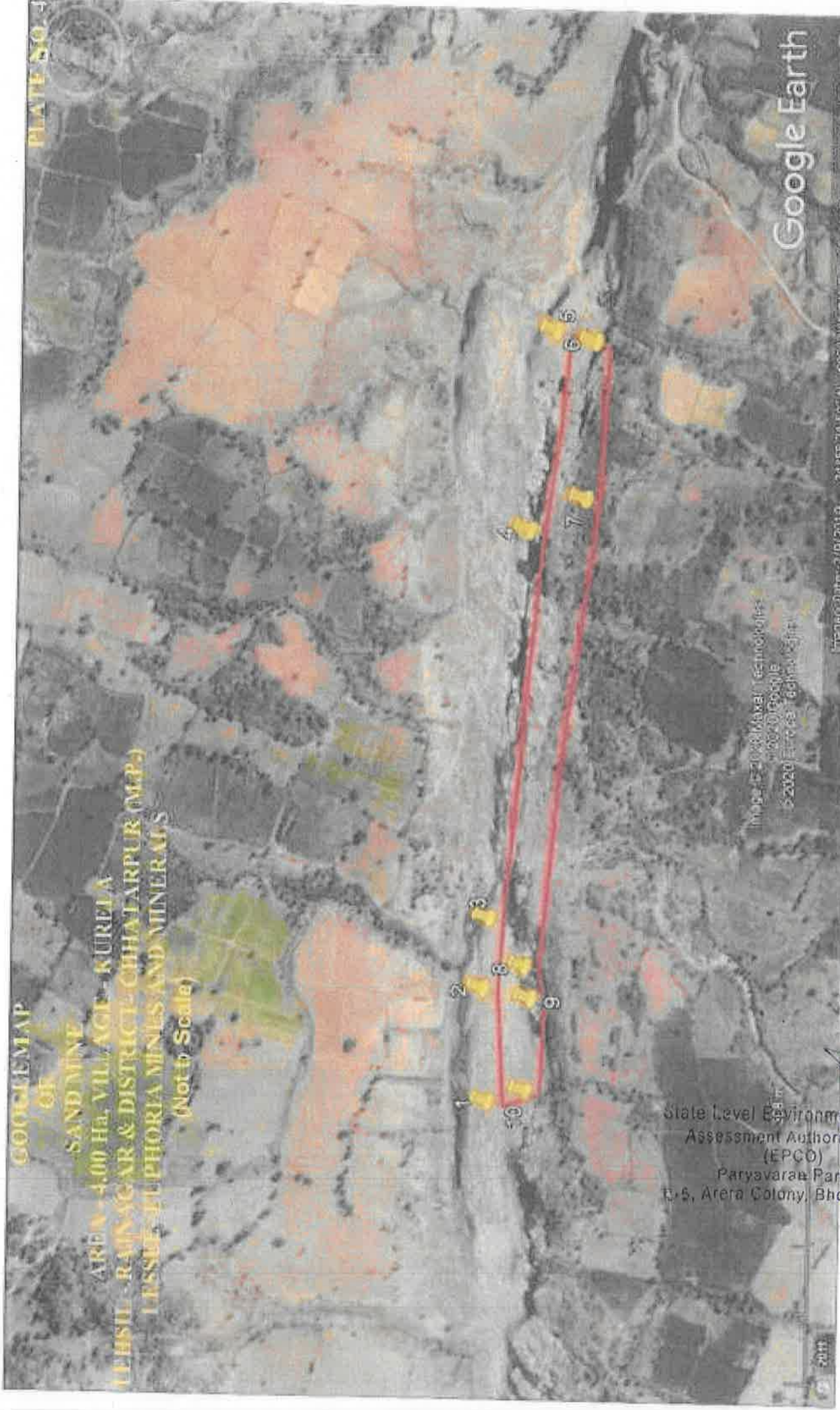
AREA - 400 Ha, VILAGE - KURELA

LEHSU - RAJNAGAR & DISTRICT - CHHATTARPUR (M.P.)

INSIDE - EUPHORIA MINES AND MINERALS

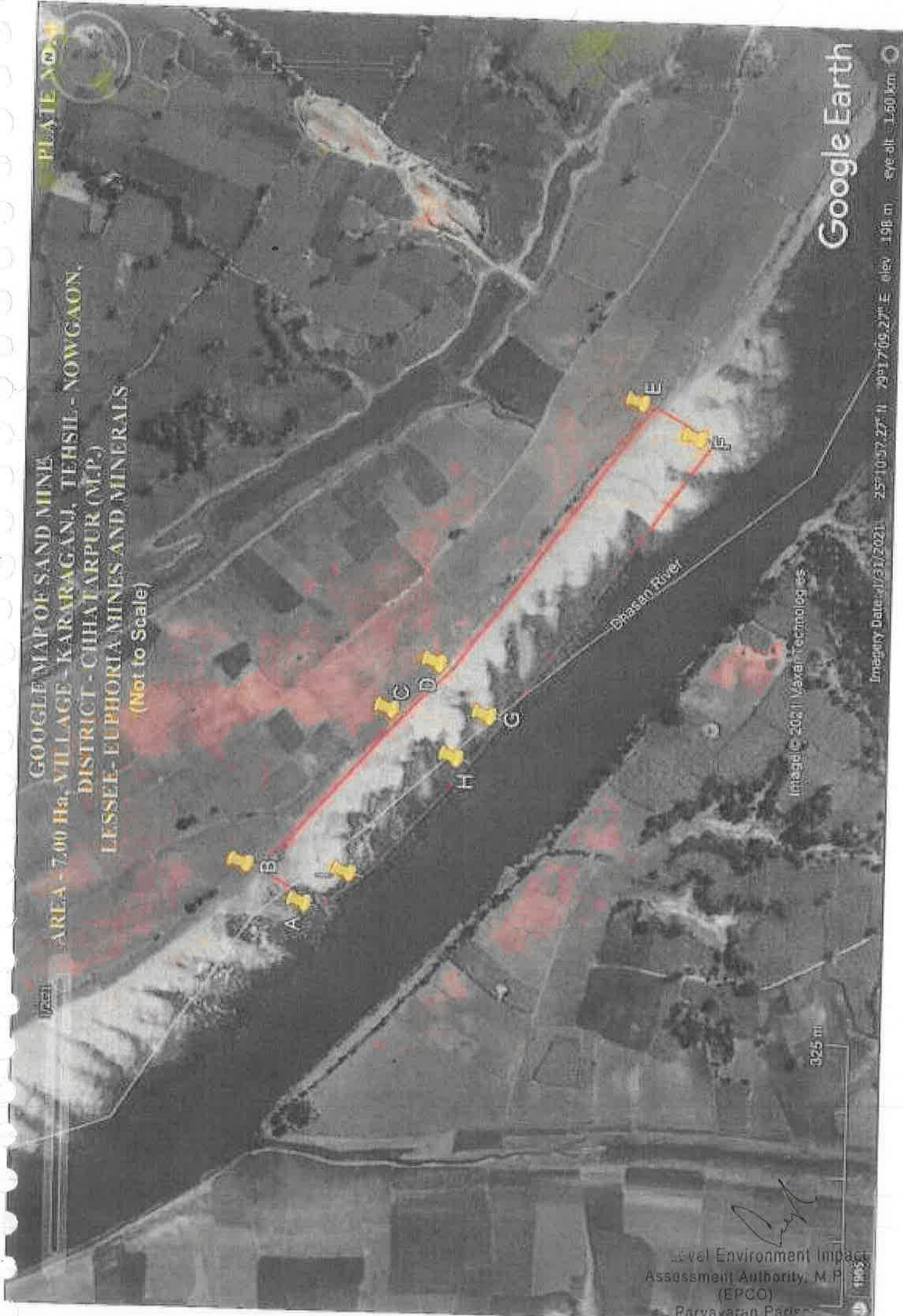
(Not to Scale)

PLATE NO -



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

GOOGLE MAP OF SAND MINE
AREA - 7.00 Ha, VILLAGE - KARAGANJ, TEHSIL - NOWGAON,
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - EUPHORIA MINES AND MINERALS
(Not to Scale)



Imagery © 2021 Maxar Technologies

Google Earth

Imagery Date: 01/31/2021 25°10'32.27" N 79°17'09.27" E Elev: 198 m eye-alt: 1.50 km

[Signature]

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

GOOGLE MAP OF SAND MINE
AREA - 1.50 Ha. VILLAGE - KADARI, TEHSIL - CHHATARPUR,
DISTRICT - CHHATARPUR (M.P.)
LESSEE-EUPHORIA MINES AND MINERALS
(Not to Scale)

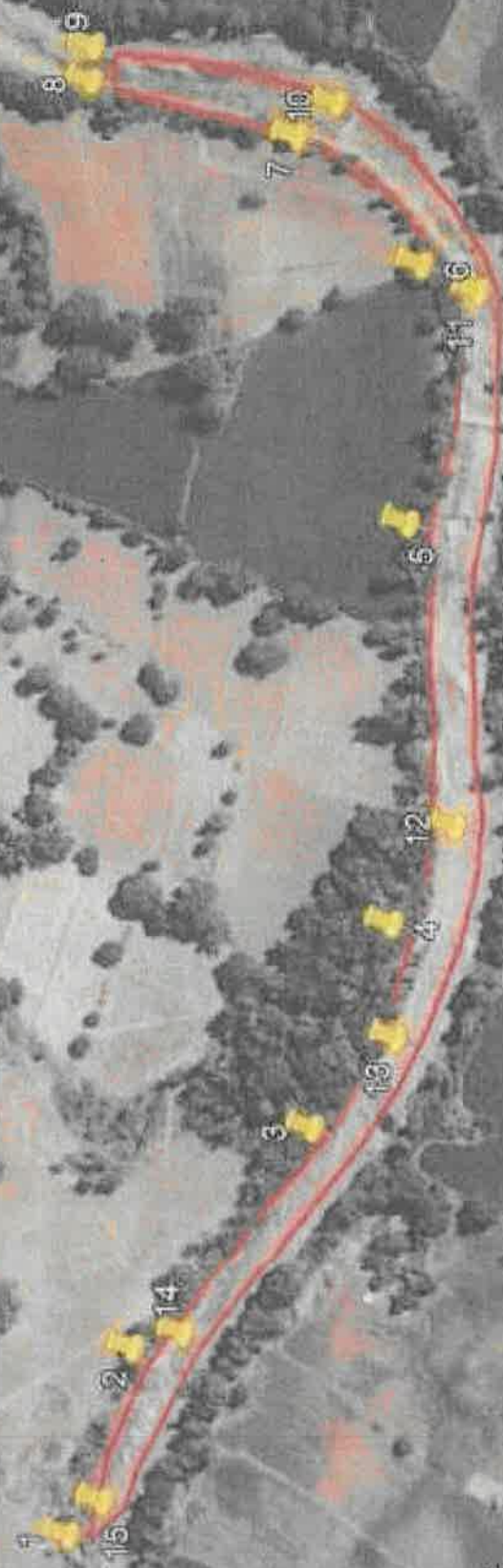


Image © 2020 Maxar Technologies

State Level Environment Impact
Assessment Authority, M.P.
(EPAO)
Paryavaran Pauser
E-5, Arera Colony, Bhopal (M.P.)





GOOGLE MAP
OF
SAND MINE
AREA - 40 Ha, VILLAGE - BIN ULI,
TEHSIL - CHANDIA & DISTRICT - CHHATTARPUR (M.P.)
LESSEE- EUPHORIA MINES AND MINERALS
(Not to Scale)

1/3/2019

Image Date: 04/2019 25.0153027 N 80.9154013 E Alt: 125 m Scale: 414 m

Google Earth

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

2000

STANDARDS
 AREA 44-50 BOREHOLE AREA HISTORY
 (MISHI-CHANDI) & DIETRICI (MISHI-CHANDI) (MEL)
 (LASSI), BURBURA MOUNTAINS AND MINERALS
 (Mishishandi)



(Mishishandi) (Mishishandi)

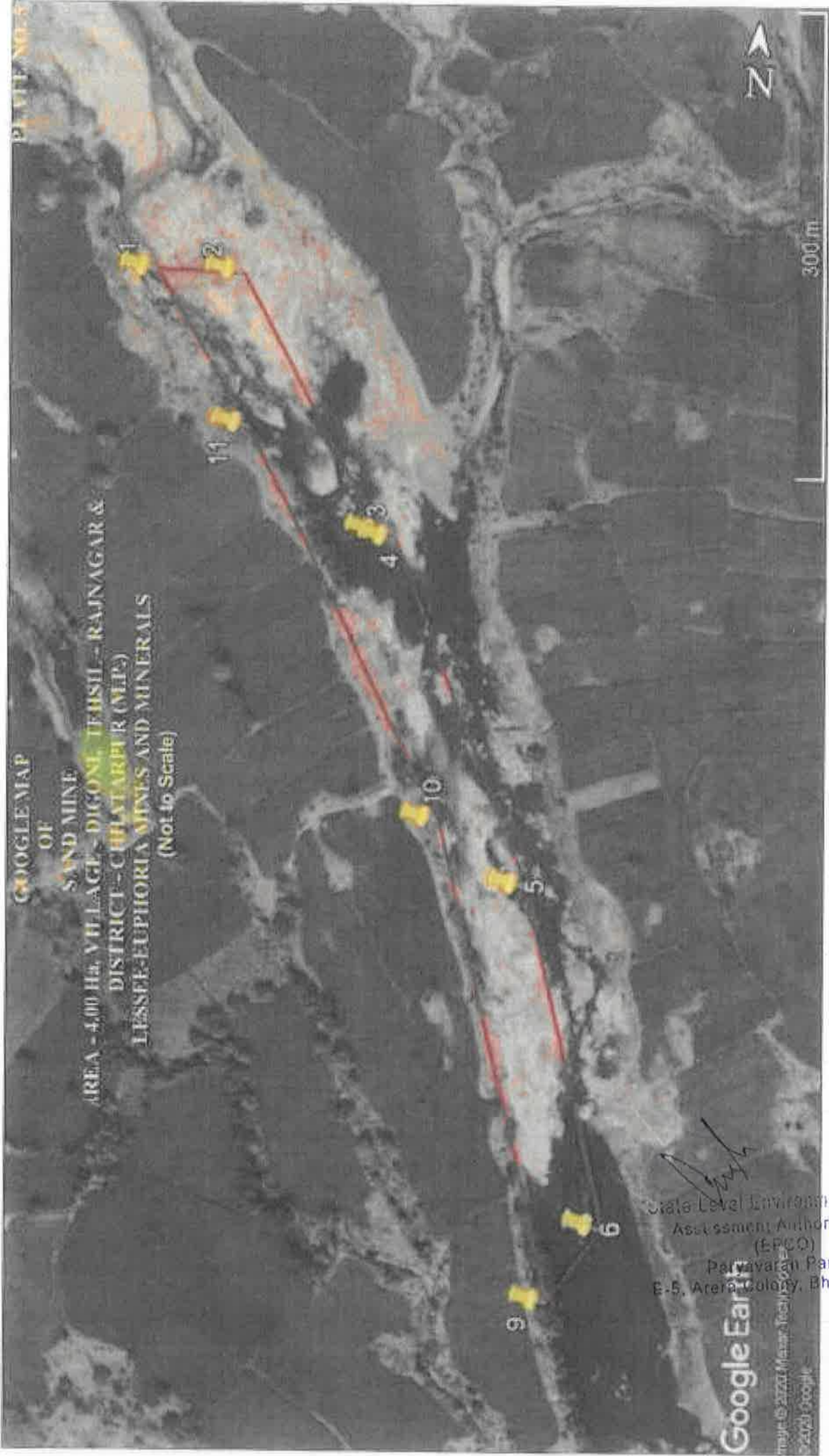
State Level Environment Impact
 Assessment Authority, M.P.
 (SEAA)
 Paryavaran Sadak
 Bhopal, Madhya Pradesh (M.P.)



PLATE No. 5

GOOGLEMAP

OF
SAND MINE
AREA - 4.00 Hl. VILLAGE - DIGOMI, TEHSIL - RAJNAGAR &
DISTRICT - CHHATTARHAR (M.P.)
LESSEE-EUPHORIA MINES AND MINERALS
(Not to Scale)



300m

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

Google Earth

maple 15 2020 (Massive) 10/21/20
© 2020 Google

GOOGLE MAP

OF

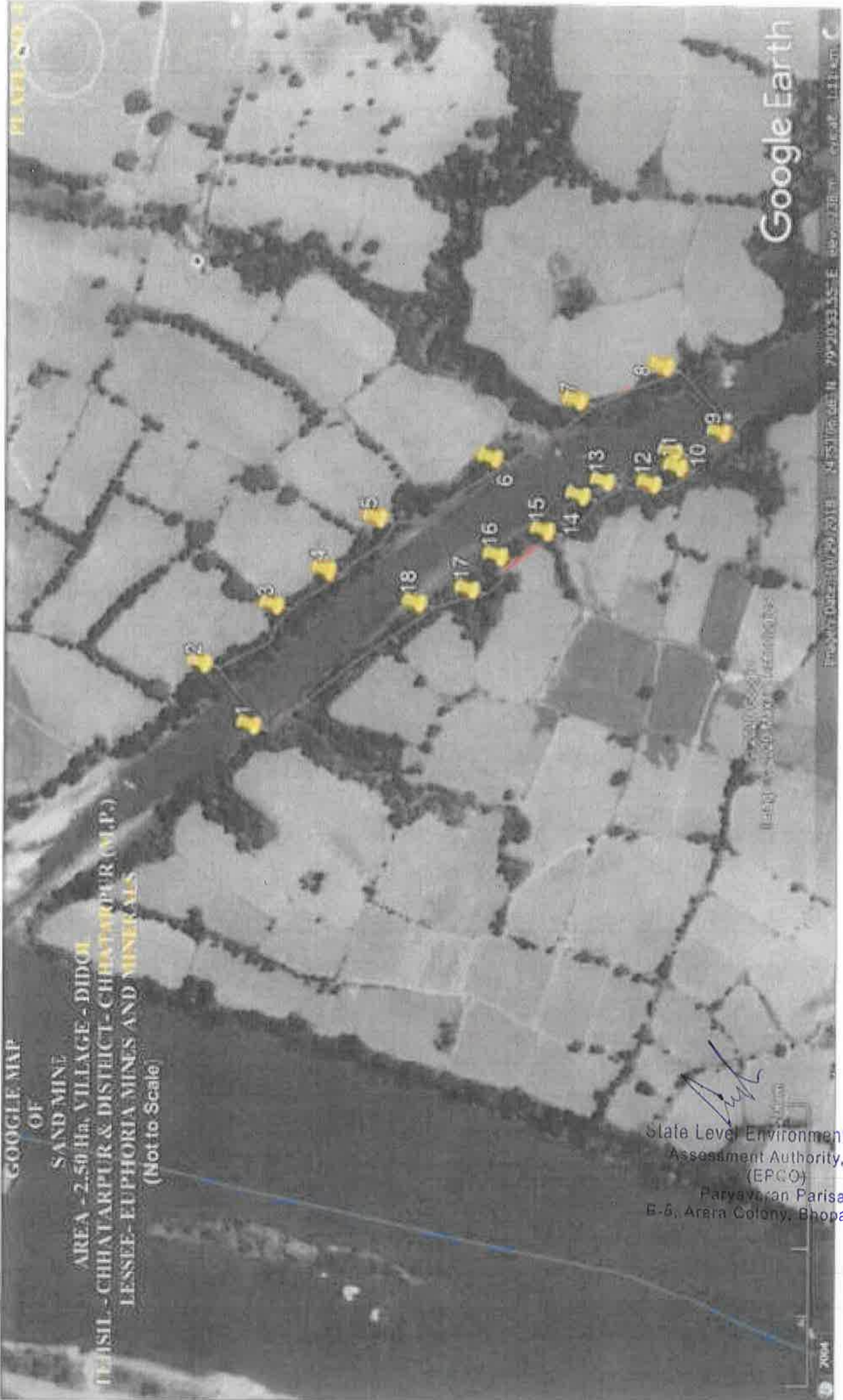
SAND MINE

AREA - 2.50 Ha, VILLAGE - DIDOI

TEHSIL - CHHATARPUR & DISTRICT - CHHATTARPUR (M.P.)

LESSEE - EUPHORIA MINES AND MINERALS

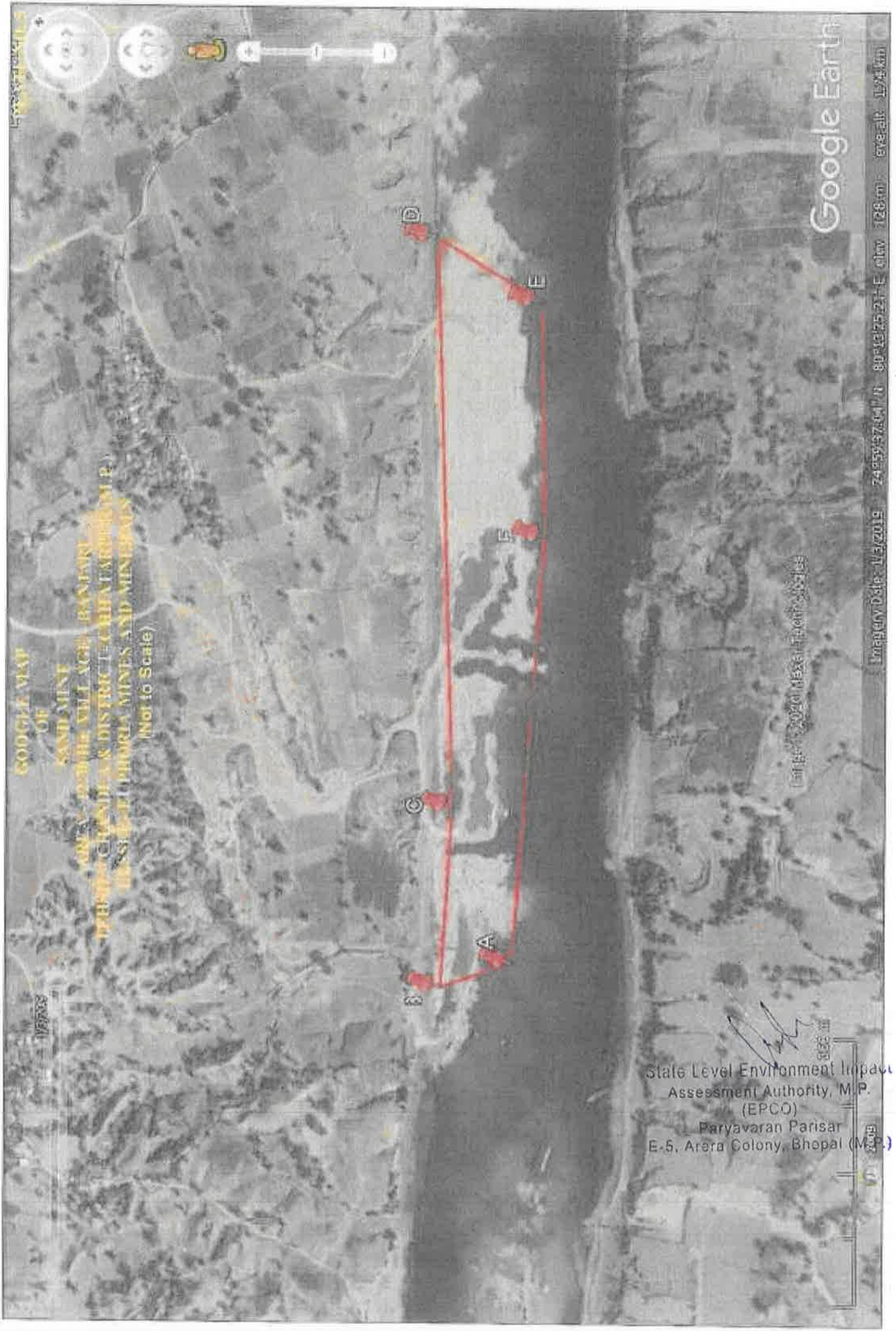
(Not to Scale)



Google Earth

[Signature]
State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
B-6, Arara Colony, Bhopal (M.P.)

**GOOGLE MAP
OF
SANDHOLE
AREA IN THE VILLAGE BANAVARI
TEHSIL CHANDIA & DISTRICT TEHACHUR (M.P.)
IN THE JHUMRA MINES AND MINERALS
(Not to Scale)**



Imagery Date: 15/3/2019

Imagery Date: 15/3/2019 24°59'37.04" N 80°13'25.21" E elev: 128.m Eye alt: 174 km

802 III

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

Google Earth

GOOGLE MAP OF SAND MINE
AREA - 20 Ha. Village - BOPAL, TEHSIL - LAVKUSHNAGAR,
DISTRICT - CHHINDWAR (M.P.)
TESSEI-EDDIPORIA MINES AND MINERALS
(Not to Scale)



Google Earth

Imagery Date: 04/07/2016 25°05'43.74"N 79°57'44.03"E Elev: 195 m Alt: 2167m

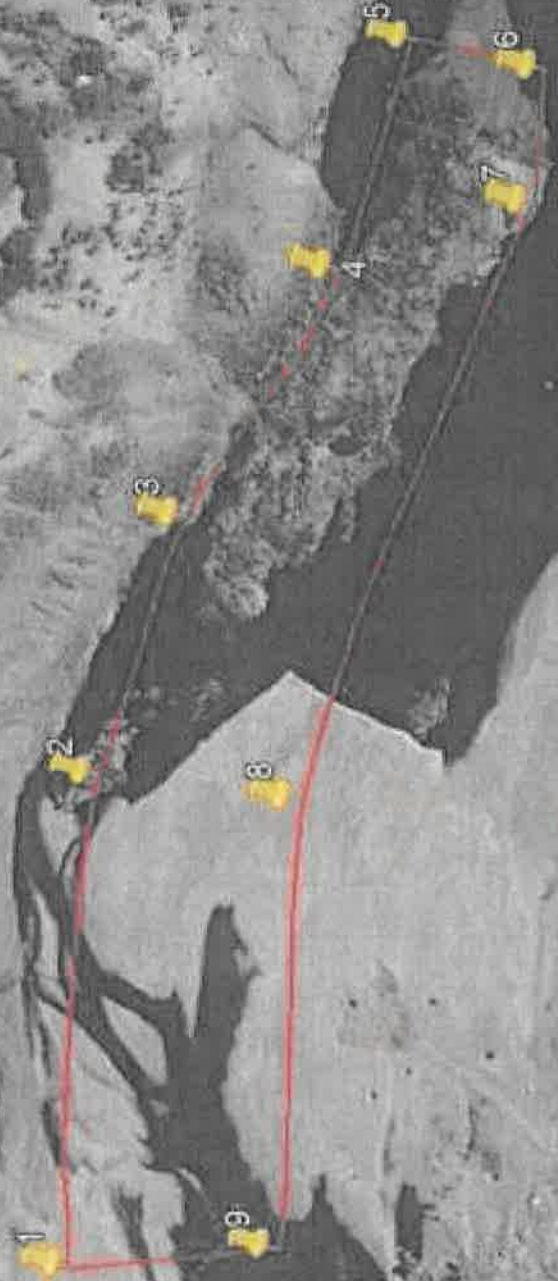
Scale Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Parvavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)



GOOGLE MAP
OF

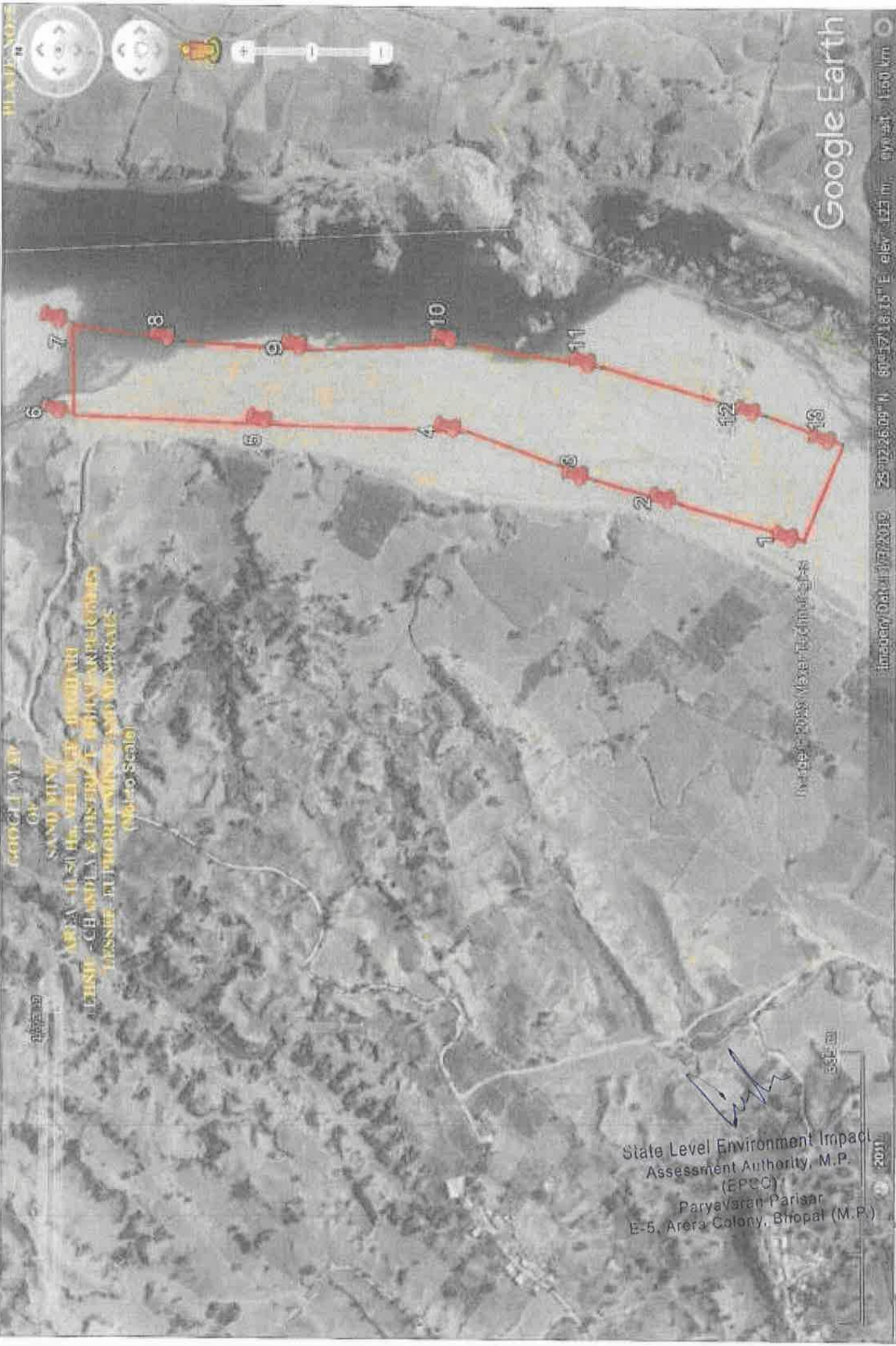
BAGHARI-2 SAND MINE
AREA - 8.0 Ha. VILLAGE - BAGHARI
TEHSIL - CHANDLA & DISTRICT - CHHATTARPUR (M.P.)
LESSLE- EUPHORIA MINES AND MINERALS

(Not to Scale)



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

Imagery Date: 11/19/2015



GOOGLE MAP

OR

AREA OF STUDY AND THE PROPOSED
 PROJECT - CHANDLA DISTRICT E. INDIA
 DISTRICT SUPPLEMENTARY SURVEY
 (M.P. State)

October 2008 (As per field work)

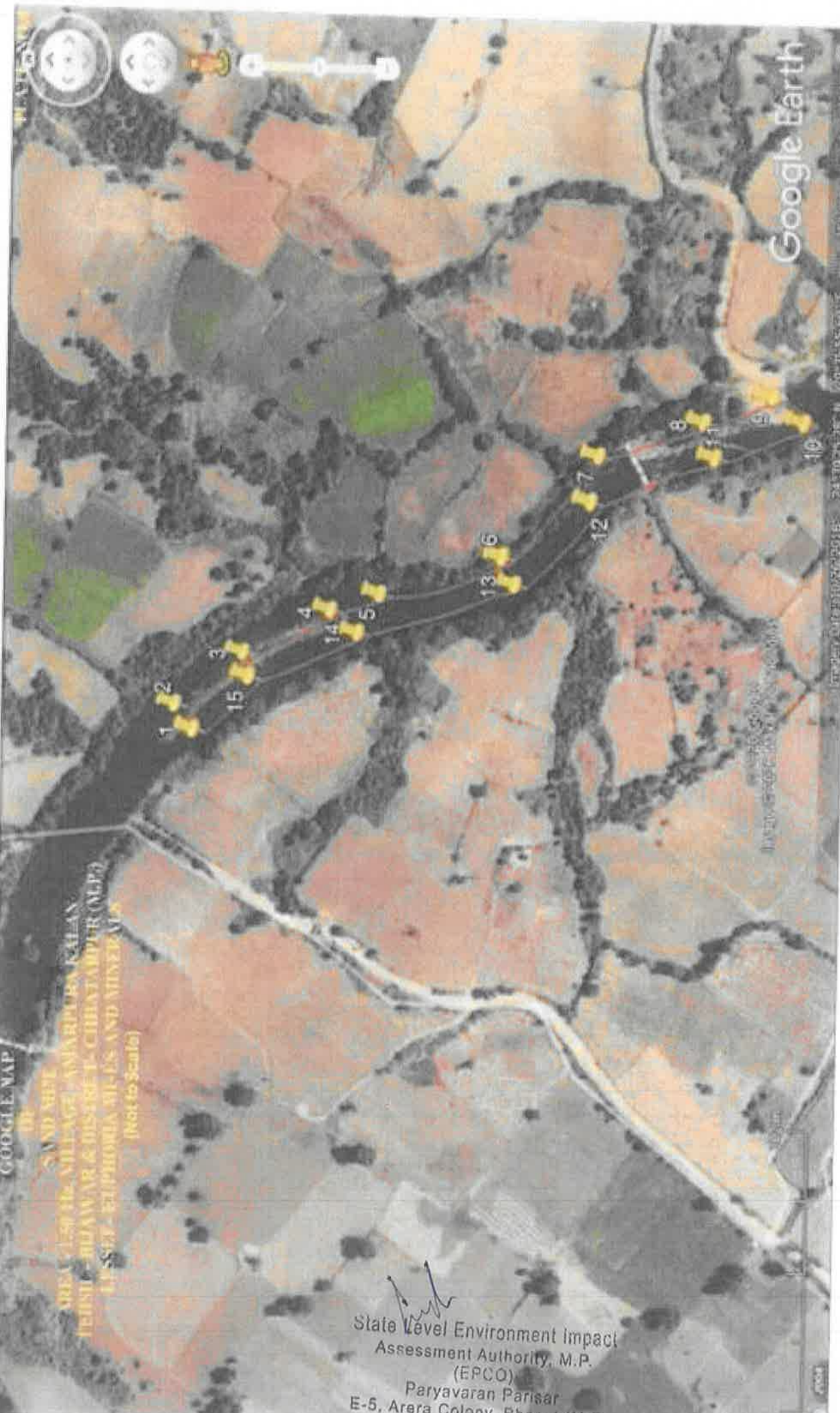
Scale

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

2011


GOOGLE MAP

SAND SHEET
AREA: 1.50 Hc. VILLAGE: AMARPURA KALAN,
TEHSIL: BHAWAR & DISTRICT: CHHATTARPUR (M.P.)
UPSET - EUPHORIA ME-ES AND MINERALS
(Not to Scale)



Google Earth

Latitude: 24°30'26.15" N Longitude: 82°55'29.61" E Altitude: 130 m


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

**GOOGLE MAP OF SAND MINE
SARLA - 7.00 Ha, VILLAGE- ALPURA, TEHSIL- NOWGAGON,
DISTRICT - CHHATTARPUR (M.P.)
LESSEE- EUPHORIA MINES AND MINERALS
(Not to Scale)**

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

Image © 2020 CNES / Airbus

Google Earth

25°09'41.831"N 79°18'53.14"E Elev 199 m Eye alt 1.11 km

© 2004

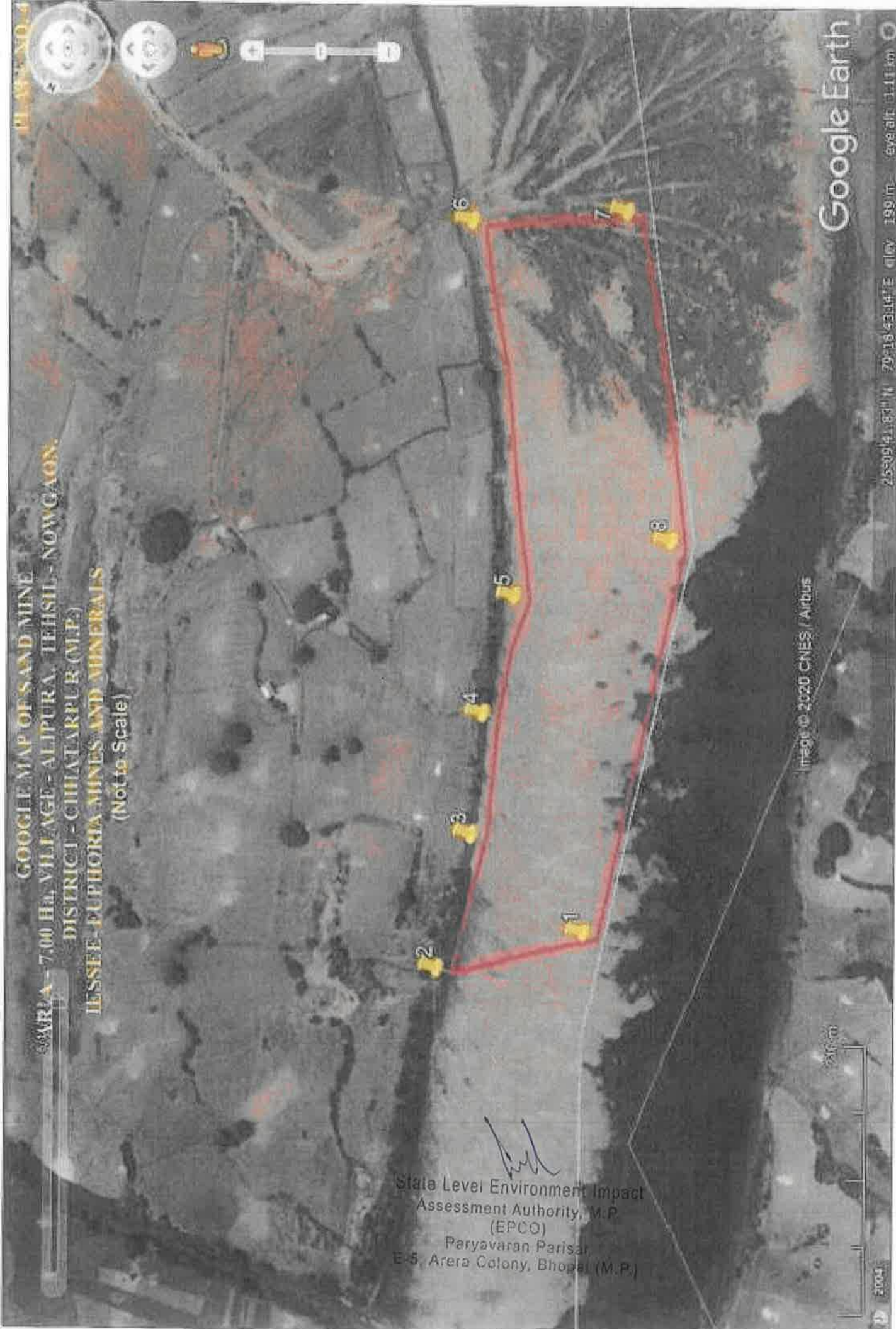


PLATE NO. 3

GOOGLE MAP OF SAND MINE
AREA - 4.00 H. VILLAGE - ALPIPURA, TEHSIL - MUVGAON,
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - BHOHRIA MINES & MINERALS
(Not to Scale)

0 1000

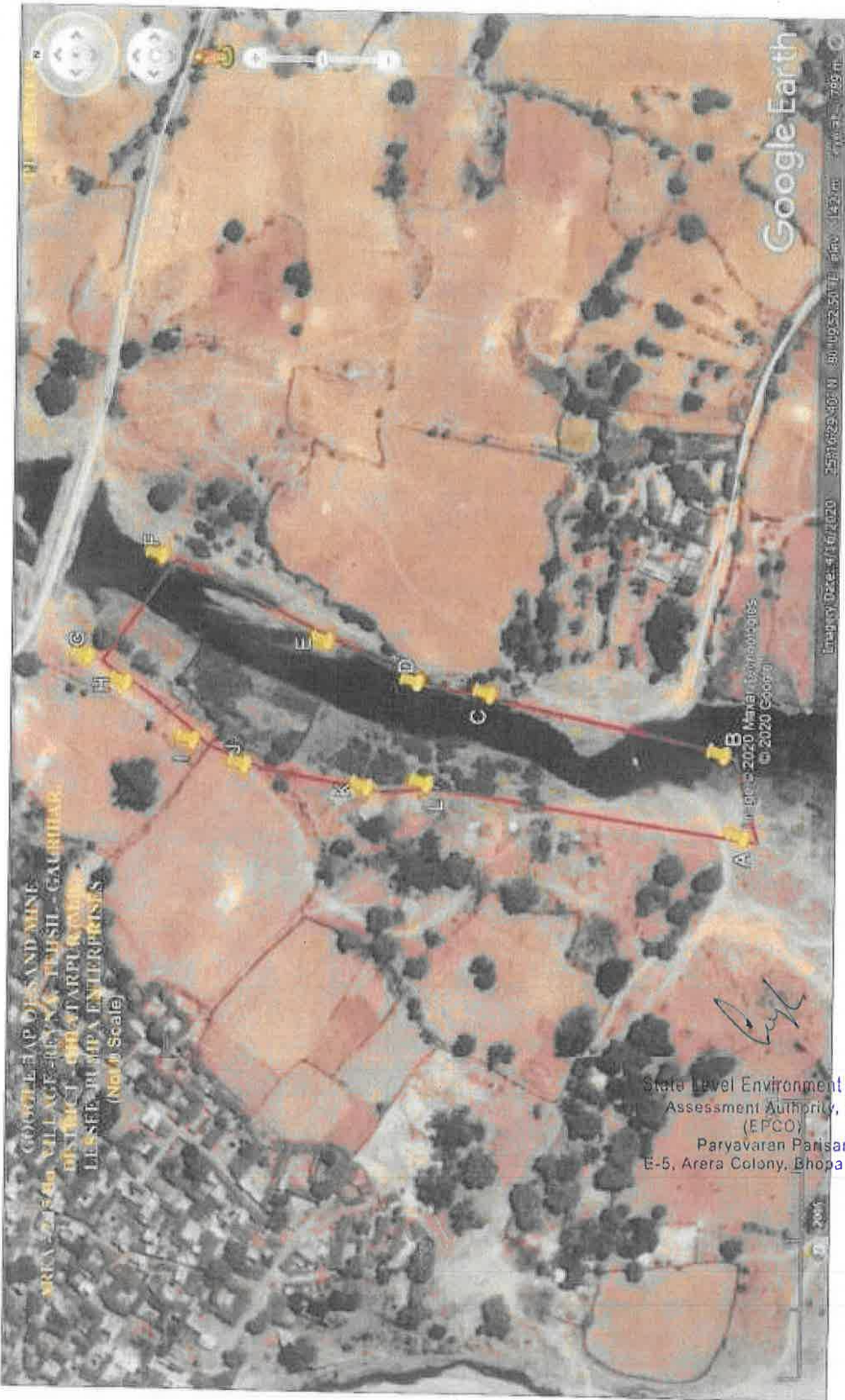


State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Pariyavaran Parisar
B-5, Arera Colony, Bhopal (M.P.)

Image © 2020 CNES - Airbus

Image Date: 6/11/2018 X: 10955007 Y: 7291102 E: 00W 102.00
Google Earth

GOOGLE EARTH
VILLAGE - 21546
DISTRICT - CHHATTARPUR
BESSEE PUMPA ENTERPRISES
(Not to Scale)



Google Earth

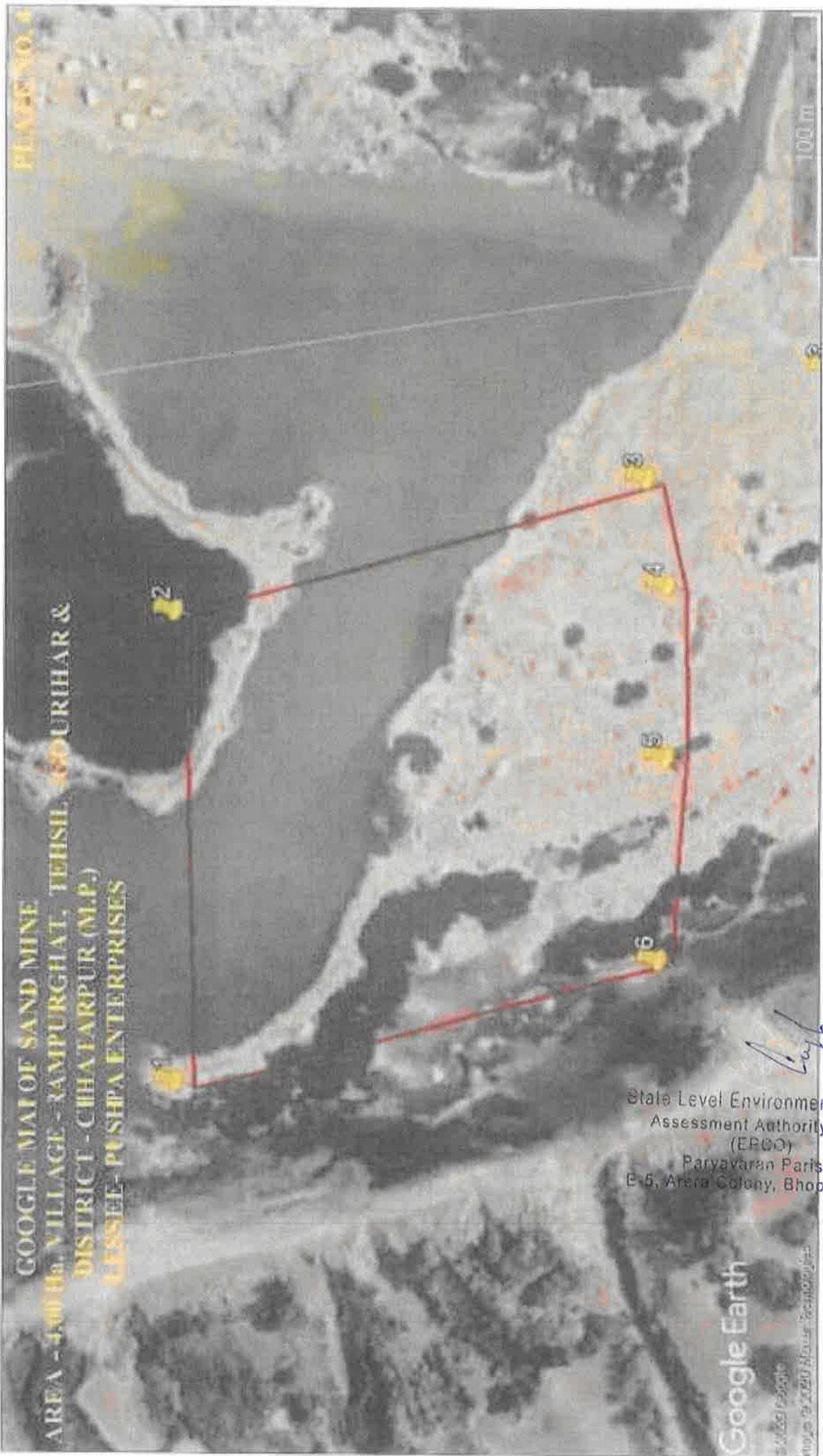
Latitude: 23.1629406 N Longitude: 79.142201 E
Map Date: 16/2020

Rayk

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

PLAN NO. 4

GOOGLE MAP OF SAND MINE
AREA - 400 Ha. VILLAGE - KAMPURGHAT, TEHSIL - GOURIHAR &
DISTRICT - CHHATTARPUR (M.P.)
CLIENT - PUSHPA ENTERPRISES



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

Google Earth

© 2015 Google
Images © 2015 Navar Technologies

Signature

GOOGLE MAP OF SAND MINE
IN THE VILLAGE KAMPAUR, TEHSHIL GAZIABAD
DISTRICT - GHAZIABAD (M.P.)
TEHSHIL IN SHIVNATHPUR
(Not to Scale)



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

Images are subject to copyright
for Google Earth

Google Earth

Image Date: 2/2/2008 15:54:46.03171 630720.55 E 2400 349m elevat 1000m

PLAN NO. 4

AREA - 2.0 Ha



Imagery Date: 12/15/2018

Google Earth

Imagery Date: 12/15/2018 35-05-57.631 N 80-52-25.795 E 101 m 6.56 km 303 km

State Level Environment Impact
Assessment Authority, M.P.
(EPCA)
Paryavaran Parisar
E-5, Arca Colony, Bhopal (M.P.)

GOOGLE MAP

OF

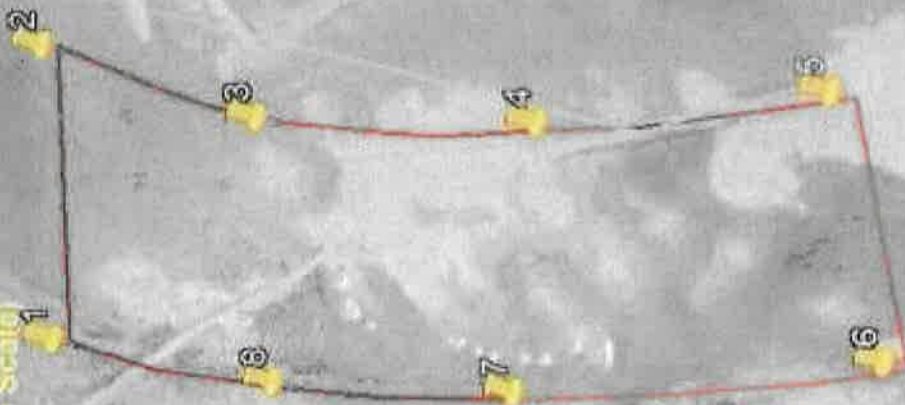
PAREE - SAND MINE

AREA A, 100 Ha, VILLAGE - PAREE

TUNSI - GAURIHAR & DISTRICT - CHHATTARPUR (M.P.)

LESSEE - BISHNA ENTERPRISES

(Not to Scale)



Google Earth

Image Date: 1/5/2019 25° 2' 44.41" N 80° 17' 36.44" E #by 100 m eye alt 1.22 km

2000

200m

Handwritten signature

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

2000

GOOGLE MAP OF SEARCHED
AREA - SOUTH VILVAGE - PAVARAR - GAUMBAR.
DISTRICT - CHHATTAR (M.P.)
LESSER PUSHPA EN PHADPURA
(Mokre Spati)



1.45 km (0.9 miles)

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



Google Earth

Longitude: 76° 20' 00" E Latitude: 23° 15' 00" N Altitude: 225 m

PLATE NO. 3



Google Earth

Coordinates: W 2019 75° 21' 28.51" E Elev. 95m Eye Alt. 1.03 km C

Google Map

PAVVARAN SAND MINE
M.P. STATE OPEN CAST SAND MINE
CUM RIBHON DISTRICT - BHOPAL (M.P.)
RIBHON MINE & SAND MINE
(10:16 Scale)



Images © 2019 Mapbox Contributors

State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parishad
G-5, Arera Colony, Bhopal (M.P.)



GOOGLE MAP OF SAND MINE
AREA - BHOJPAKHUR, PADWAR, TEHSIL - GAURIHAR,
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - PUSIPA ENTERPRISES
(Not to Scale)

PLATE NO. 6



Auth
State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Areta Colony, Bhopal (M.P.)

Google Earth

Imagery Date: 5/21/2022 23°50'45.64" N 80°18'38.10" E 113 m Scale: 1:96 m

905 m

200

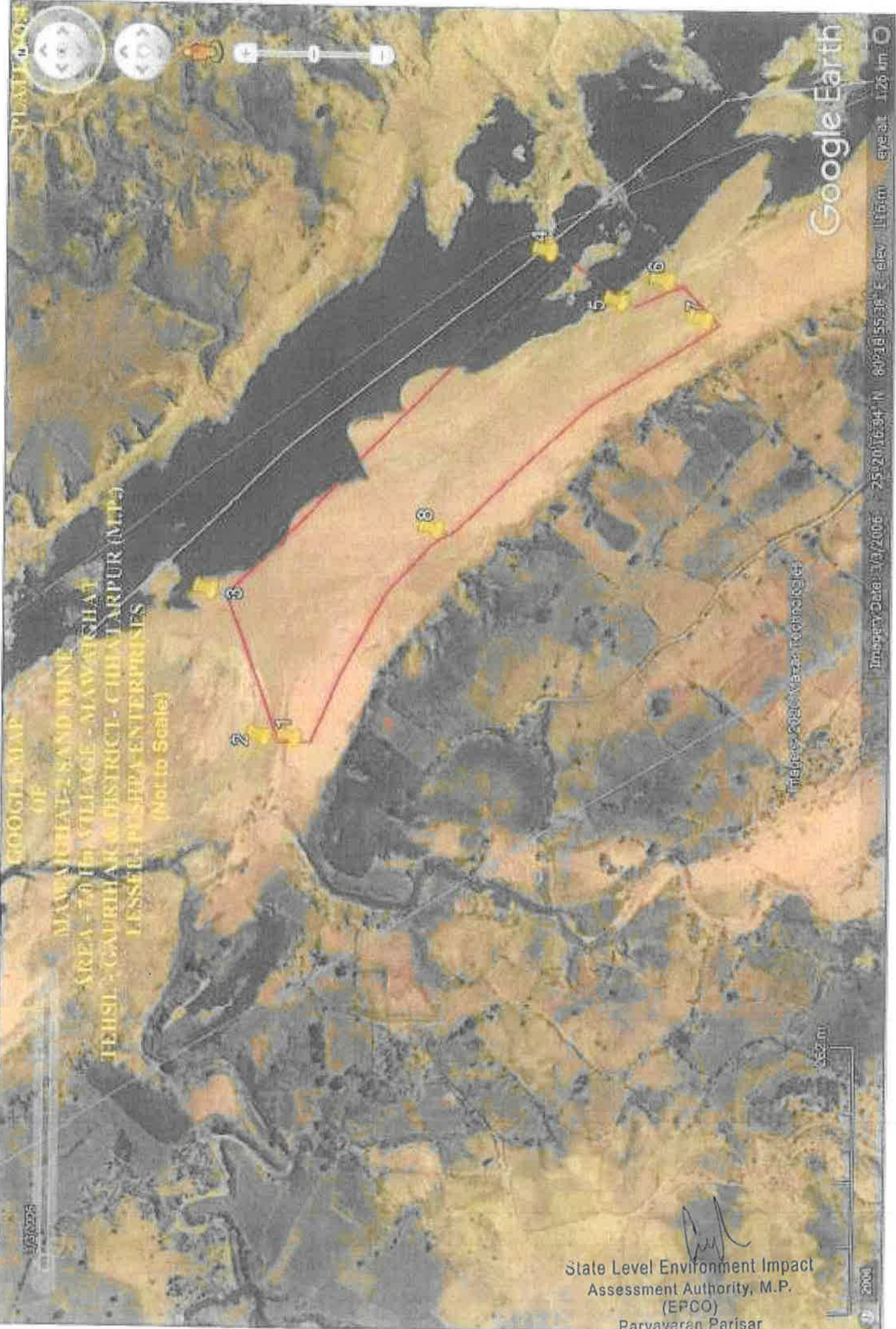
NEHRA SAND MINE AREA - 100 Ha Mine Area NEHRA TEHSIL - GAILWAD DISTRICT - CHHATTARPUR (NORTH) LESSON OF SITE INVESTIGATIONS (North Scale)



Figure 2: 200 Meter Tracklines

1650m

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



GOOGLE MAP

MAWAICHAH-2 SAND MINE
AREA - 70 Ha VILLAGE - MAWAICHAH
TEHSIL - GADBIHAR & DISTRICT - CHHATTARPUR (M.P.)
LESSEE- PUSHPA-ENTERPRISES
(Not to Scale)

Images ©2006 Maxar Technologies

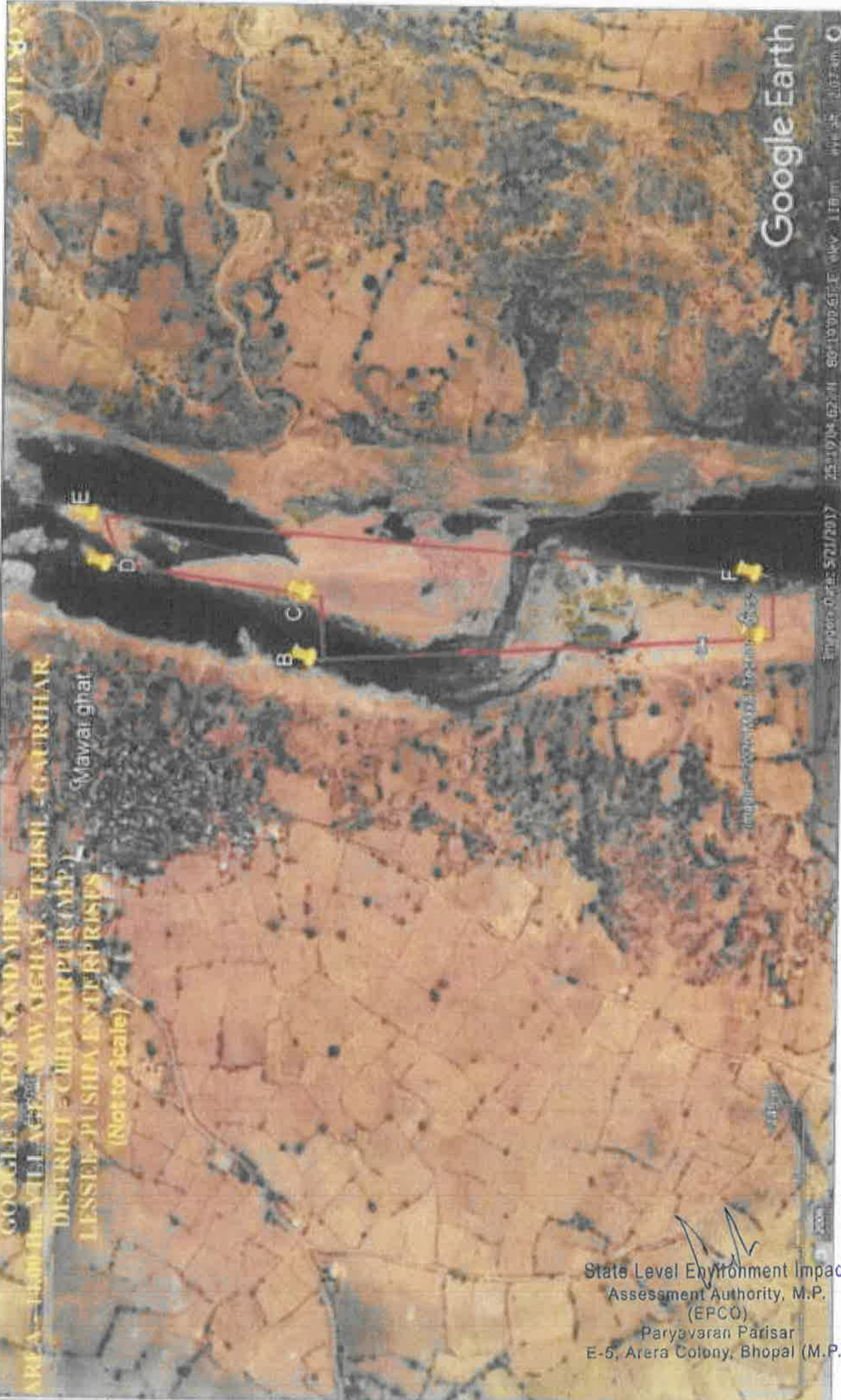
Google Earth

Imagery Date: 1/3/2006 25°20'16.94" N 80°18'55.38" E elev. 115m eye at 1.26 km

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

© 2006

GOOGLE MAP OF SAND MINE
AREA - HAMIRGAJI A.P., MAWA GHAT, TEHSIL - GAURHAR,
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - PUSHA ENTERPRISES
(Not to scale)



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

Google Earth

25/10/2017 09:58:57 AM 118 m 49.48 80.74

GOOGLE MAP
01/05/2018

SAND WINE
AREA - 40 Ha, Village - MAHWAYA
TEHSIL - GAURHAT DISTRICT - CHHATTAR (M.P.)
WESIDE OF SHEVA INTERCHANGES
(N61 to Sepa)

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

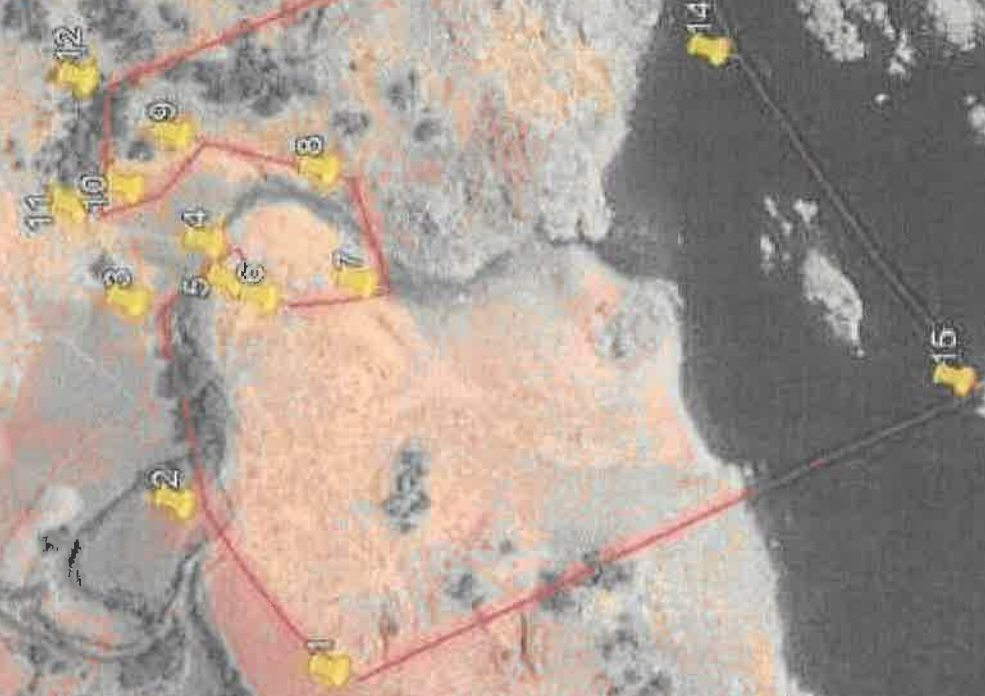
1:1000

FOOT

Image © 2018, Maxar, TerraMetrics

Google Earth

Imagery Date: 02/15/2018 25°06'39.222" N 83°21'42.027" E Elev: 1027 m Elev Alt: 699 m



GOOGLE MAPS 85°50'30"E
ARV X - 1.50 Ha, VILLAGE - PANDELA, THURU - GOHINAVATA
DISTRICT - CHITLAGUR, DISTRICT
LESSER - PUSHA ENTERPRISES



Google Earth

1584 525 1000 M 2003 10 15 15:00 825 M 0

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

7000

GOOGLE MAP

OF
GOYRA-2 SAND MINE
AREA - 100 Ha. VILLAGE - GOYRA
MUNSHI - SAURIHAR & DISTRICT - CHHATTARPUR (M.P.)
OWNER - PUSHPA ENTERPRISES
(Not to Scale)

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

Image is 8000x6000. To change location

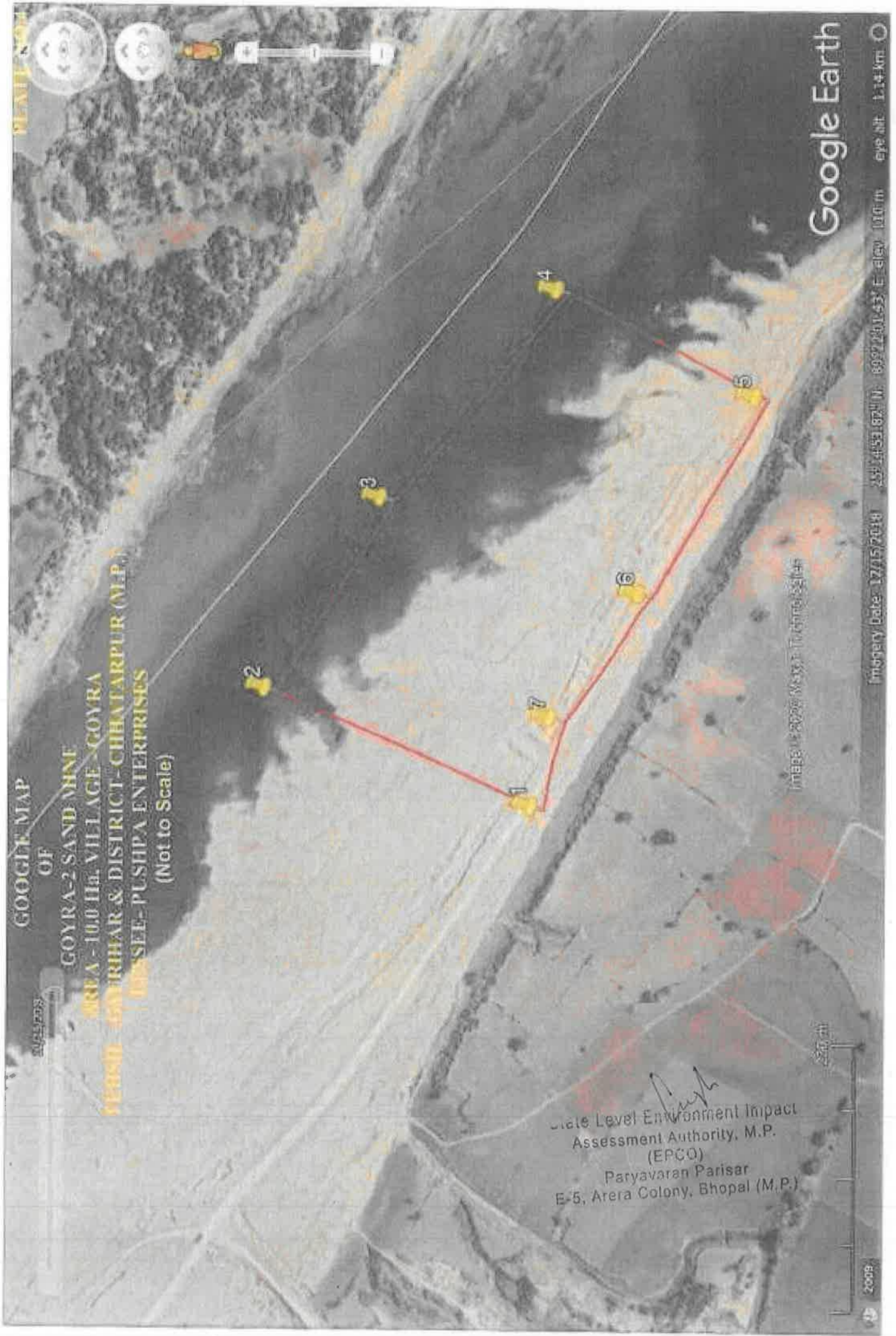
200 m

Google Earth

2009

Imagery Date: 12/15/2018 25° 44'53.187" N 80° 22'01.453" E Alt: 110 m

Eye Alt: 1.14 km



SCALE NO. 1
(Not to Scale)

GOOGLE MAP OF SAND MINE
VILLAGE - GOYRA, TEHSIL - GAURIBIDCHUR
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - PUSHPA ENTERPRISES



300 m

[Signature]
* State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

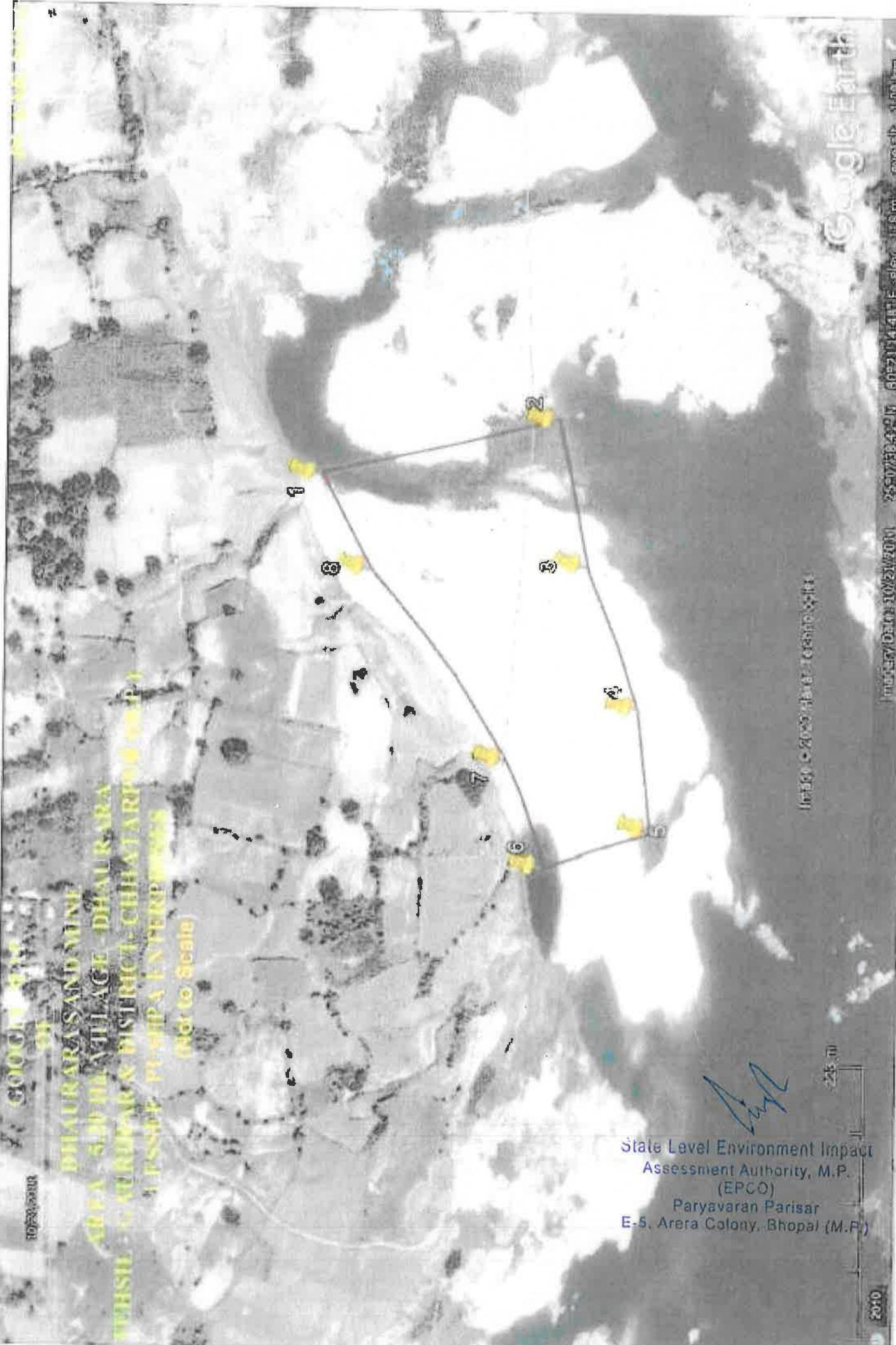
Google Earth
Imagery © 2004 Google
Map Data © 2004 Google

GOOD COPY

10/23/2010

GOVERNMENT OF
BHILWARASAND MINE
AREA SURVEILLANCE - DHAMRARA
TEHSIL - ARERA & DISTRICT - CHHATTARPOUR (M.P.)
UPSIDE PUNJPA ENTERPRISES

(Not to Scale)



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

[Handwritten Signature]

250 m

2010

Image © 2009 Google Earth

Google Earth

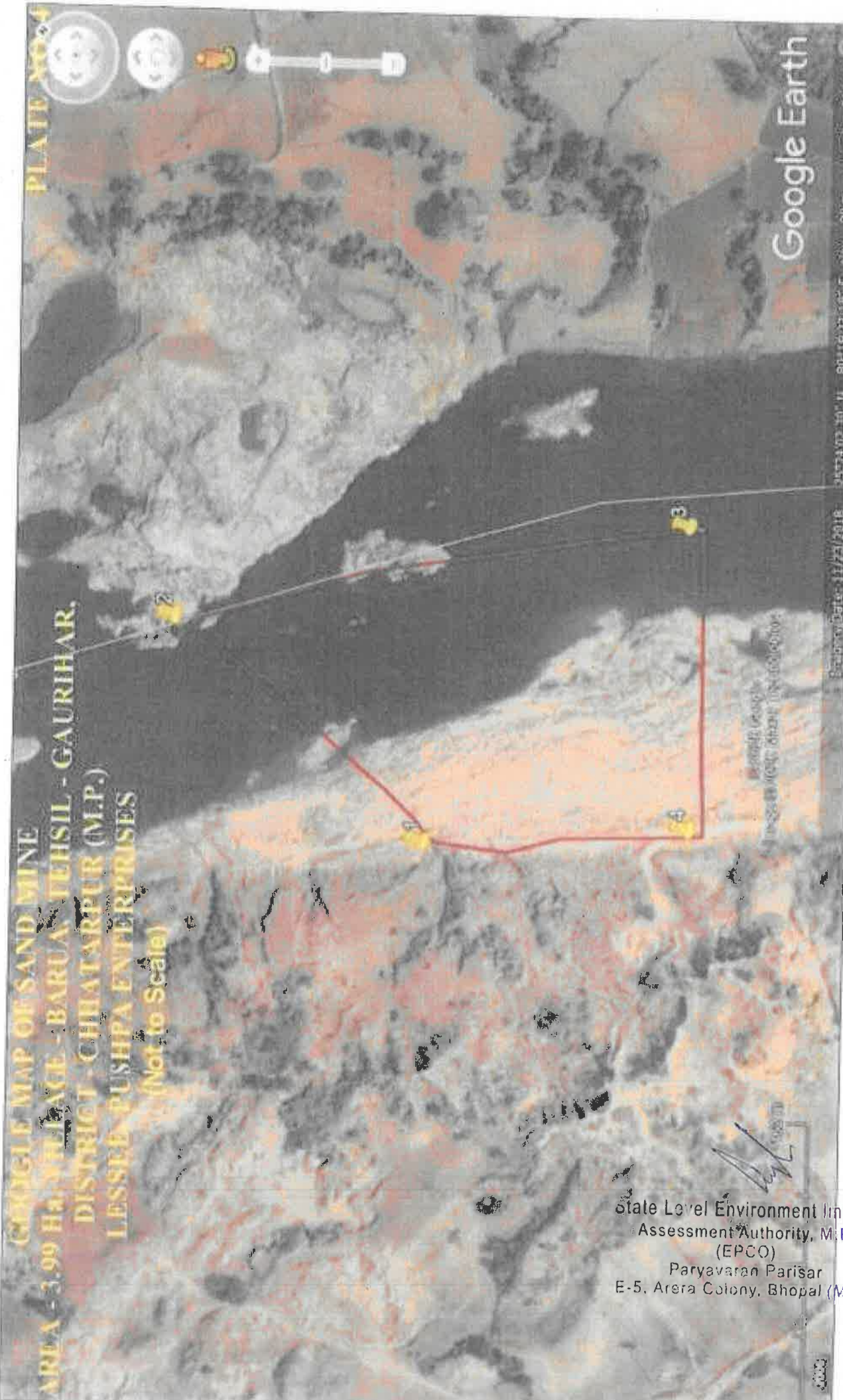
IMAGERY DATE: 10/21/2010 78°50'38.42"E 80°21'14.48"N E elev: 116 m. great: 1409 km

GOOGLE MAP OF SAND MINE

**AREA - 3.99 Ha. VILLAGE - BARUA TEHSIL - GAURIHAR,
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - PUSHPA ENTERPRISES
(Not to Scale)**



PLATE NO. 4



Google Earth

Latitude: 25°24'02.39" N Longitude: 80°18'23.10" E Altitude: 90 m
Satellite Data: 11/23/2018

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

[Handwritten Signature]



GOOGLE MAP

5/01/2015

BA-BURHEDA SAND MINE
AREA - 10.9 Ha. VILLAGE - BAARIKUHEDA
LESSEE - GADRIHAR & DISTRICT-CHHATTARPUR (M.P.)
LESSEE - PUSHPA EN TERPRISES
(Not to Scale)



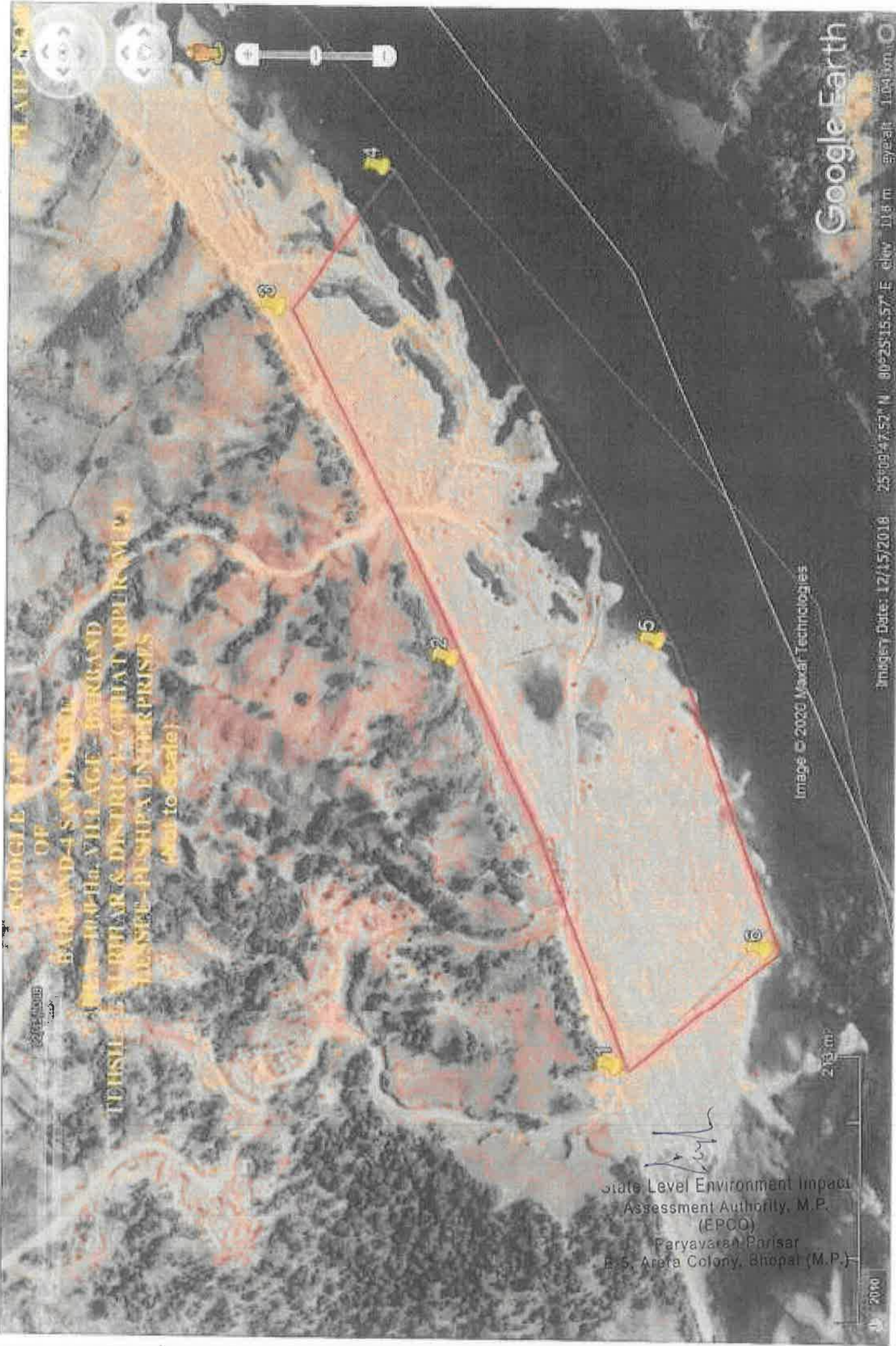
State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

227 m

3000

Google Earth

History Date: 5/3/2015 25°17'54.91"N 80°23'02.88"E ELEV: 126.M. PROJ: CH. 1.123 KM O



GOOGLE MAP
 OF
 BARRAWAD-4 SANDSHEET
 (Area: 100-Ha. VILLAGE: BARRAWAD
 TEHSIL: ALBHAR & DISTRICT: GHATAPUR(M.P.)
 LEGEND: PUSHPA ENTERPRISES
 (Not to Scale)

[Signature]
 State Level Environment Impact
 Assessment Authority, M.P.
 (EPCO)
 Paryavaran Parisar
 B-5, Arera Colony, Bhopal (M.P.)

Image © 2020 Maxar Technologies

200 m

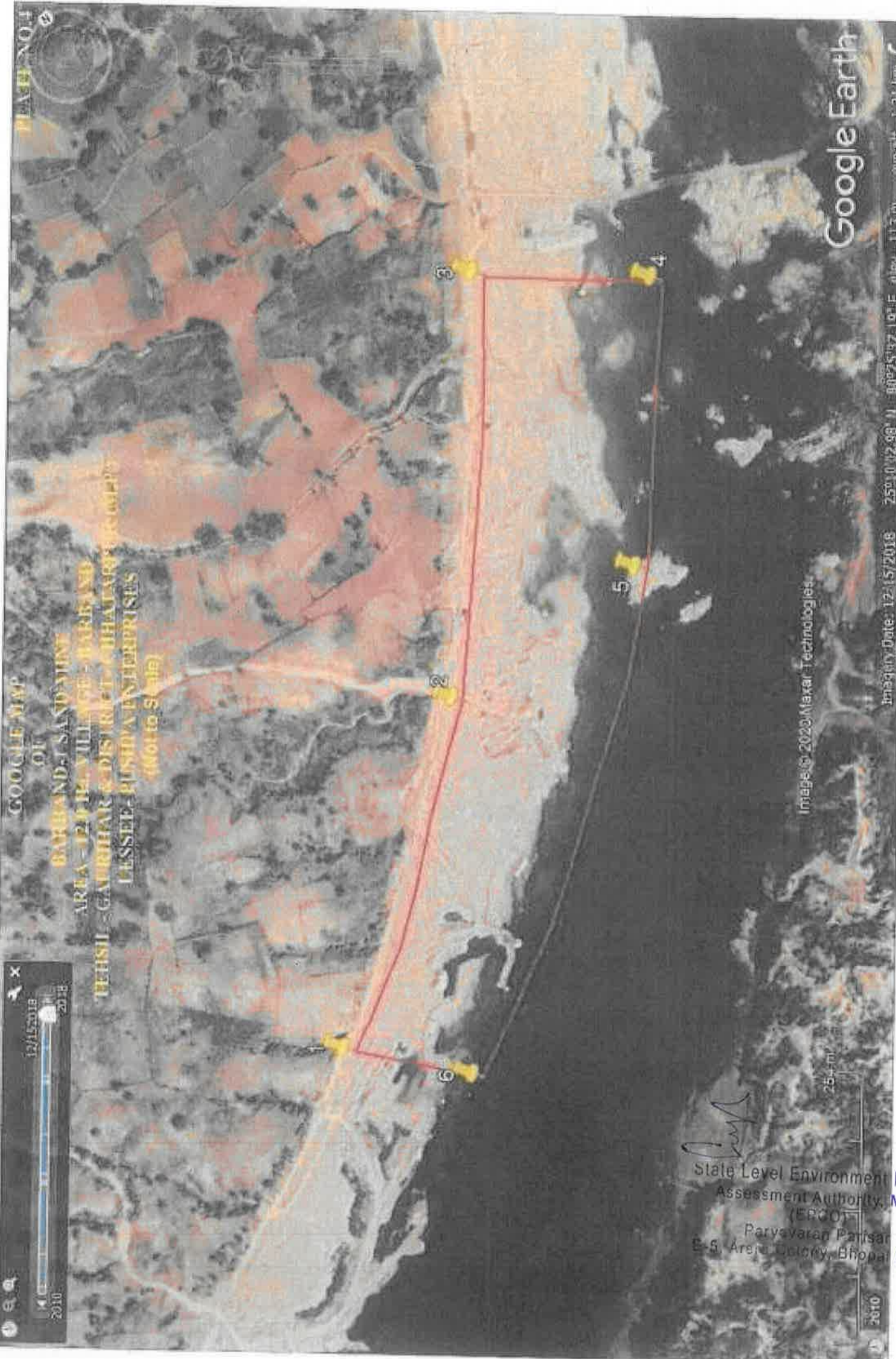
Google Earth

Image Date: 12/15/2018 25°09'47.52" N 80°23'15.57" E elev 118 m eyealt 1.04 km

13/15/2018

 2010

GOOGLE MAP
 OR
 BARBAND-LSA SANDHINE
 AREA - 12.14. VILLAGE - BARBAND
 TEHSIL - GARHAR & DISTRICT - BHADRAPORE
 LESSEE - RUSHVA ENTERPRISES
 (Not to Scale)



Images © 2020 Maxar Technologies

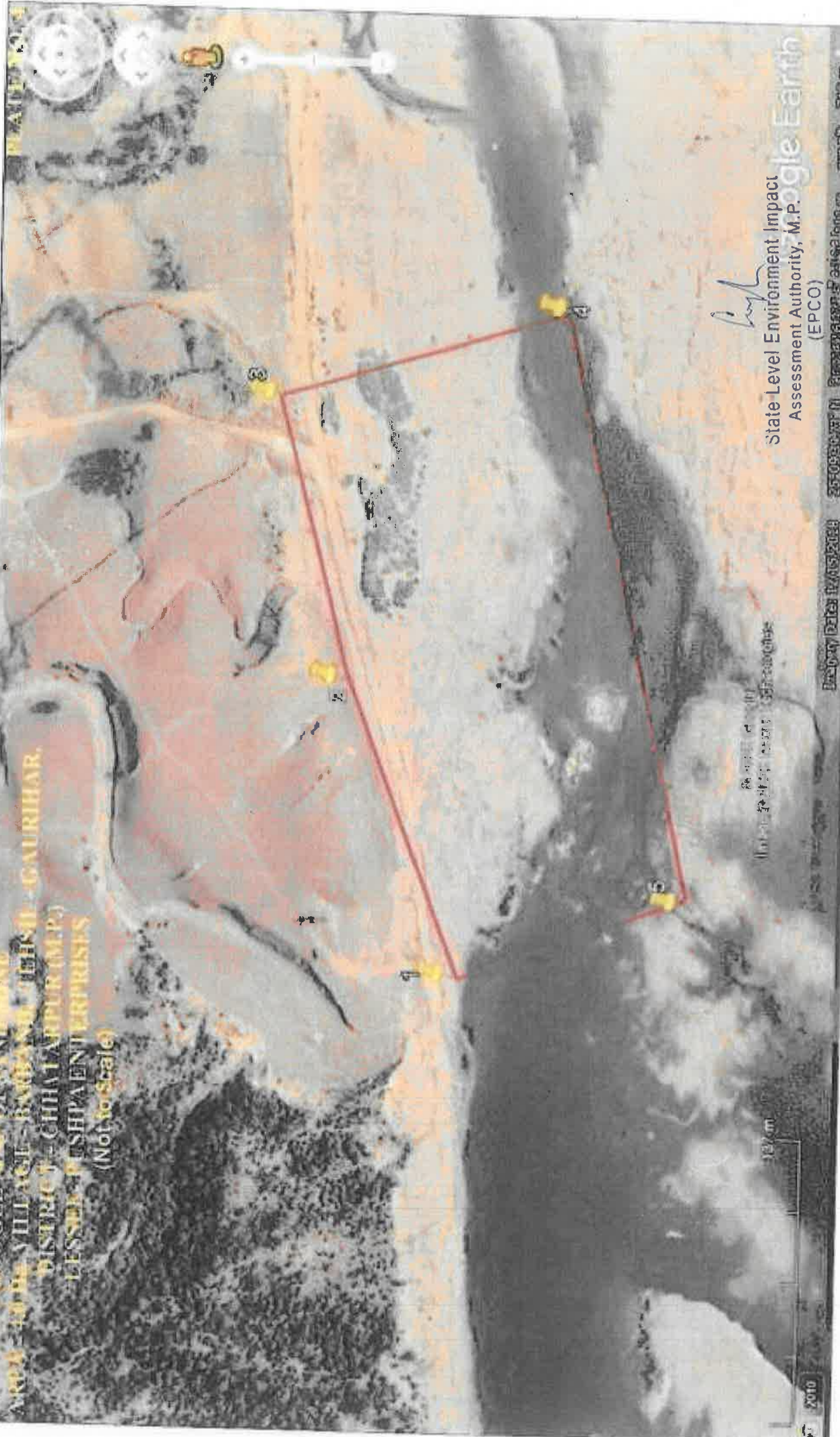
Google Earth

Inquiry Date: 12/15/2018 25°10'42.98" N 88°25'57.19" E 01m 113.0m 01m 1.24 km C

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

2010

GOOGLE MAP DEMAND
VILLAGE - BANGAON
DISTRICT - CHHATTARPUR (M.P.)
LESSEE - USHAPATI ENTERPRISES
(Not to Scale)



सर्वेक्षण संख्या: 155/2008/स

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

सर्वेक्षण संख्या: 155/2008/स
E-3, Area Colony, Bhopal (M.P.) 472010

GOOGLE MAP

25/1/2010

OF SAND MINE AREA - 40 Ha. VILLAGE - CHEETPUR TEHSIL - GADRIHAR & DISTRICT - CHHATTARPUR (M.P.) JESSEL - PUMPA CENTRIFUGES (Not to Scale)

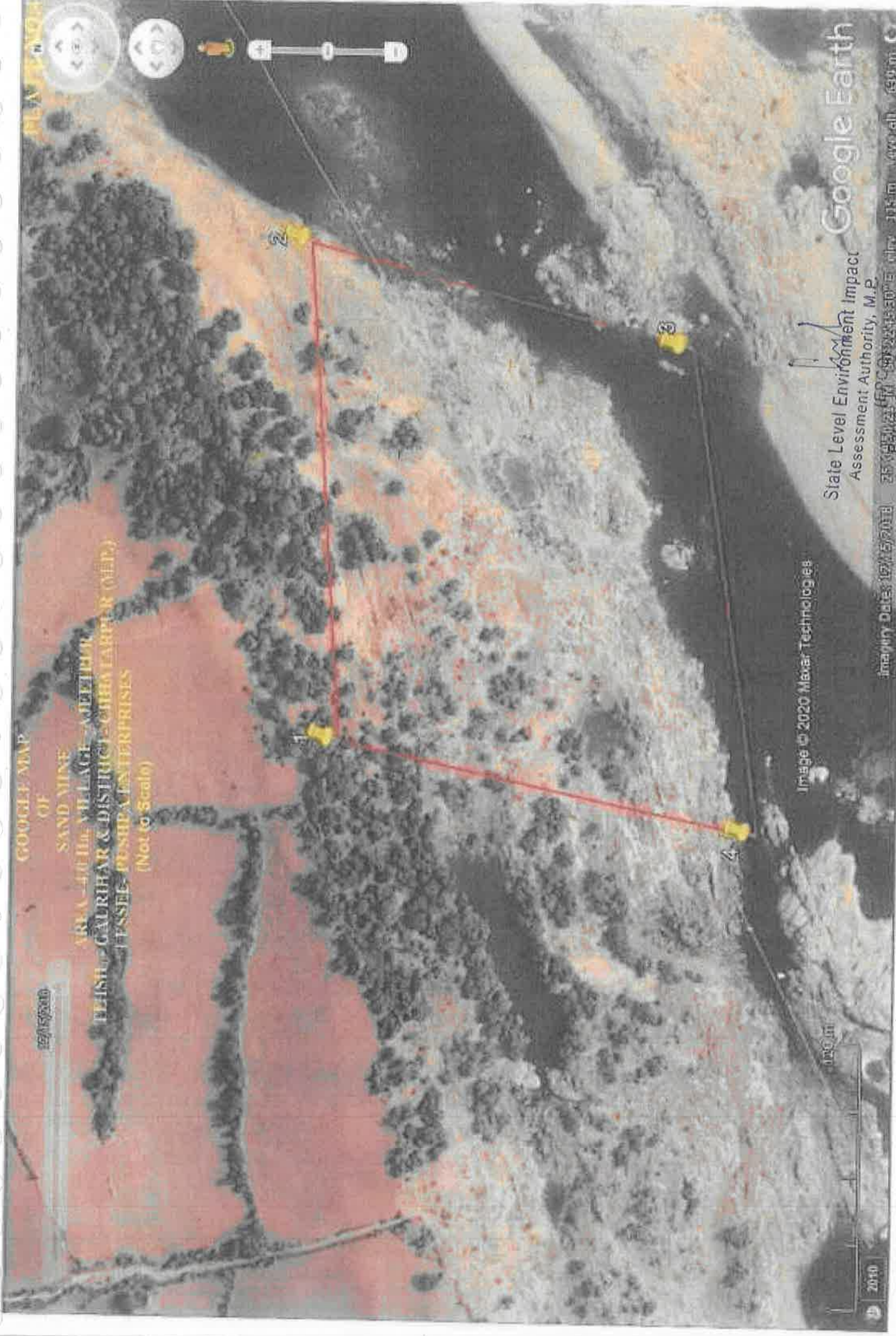


Image © 2020 Maxar Technologies

Google Earth

State Level Environment Impact Assessment Authority, M.P.

Imagery Date: 12/15/2018 25° 15' 21.11" N 81° 52' 53.30" E City: 115 m Alt: 659 m

2010

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

1022222222

GOOGLE MAP

OR

BARBAND 2 SAND MINE
AREA - 1250 Ha. VIHAGE - BARBAND
TEHSIL - GAILRUDAR & DISTRICT - CHEHATARPUR (M.P.)
LESSEES - SHIPVA ENTERPRISES
(Not to Scale)

PLATE NO. 4

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



Image © 2009, Google, All Rights Reserved

Google Earth

Image Date: 10/30/2010 55°10'46.71" N 00°25'52.64" E elev: 111 m eye alt: 1.21 km

2010

जिला छतरपुर - खोदू-भरु खदानों का ब्यौरा							
समूह का नाम - समूह क्रमांक-1 (तहसील का नाम - गौरिहार)							
क्र	जिला	तहसील का नाम	ग्राम	खसरा नं०	अनुमानित रकबा हे०	रेत का अनुमानित भण्डार (घ.मी.)	रिमार्क
1	2	3	4	5	6	7	8
1	छतरपुर	गौरिहार	मवईघाट	73/3/1/2, 48/9/2	1.000	12,000	मवईघाट
2	छतरपुर	गौरिहार	फततेपुर	295/3/1, 295/3/2	1.330	12,000	फततेपुर
3	छतरपुर	गौरिहार	सिंगारपुर	148/5/ख	1.000	12,000	सिंगारपुर-1
4	छतरपुर	गौरिहार	सिंगारपुर	64/5	1.000	12,000	सिंगारपुर-2
5	छतरपुर	गौरिहार	अजीतपुर	488/4/17	1.000	12,000	अजीतपुर
6	छतरपुर	गौरिहार	बारबंद	253/1/2/1	1.000	12,000	बारबंद
				कुल	6.330	72,000	



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