

राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, म.प्र.

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

पर्यावरण नियोजन एवं समन्वय संगठन पर्यावरण परिसर, ई-5, अरेरा कॉलोनी भोपाल-462016 (म.प्र.) बेवसाईट- http://www.mpseiaa.nic.in दूरभाष नं. - 0755-2466970, 2466859 फैक्स नं. - 0755-2462136

> No: ZoZ) / SEIAA/2022 Date: 211/2

प्रति.

कलेक्टर

जिला - शहडोल (म.प्र.)

विषयः नवीन जिला सर्वेक्षण रिपोर्ट – शहडोल (अन्य गौण खनिज – रेत को छोड़कर)

संदर्भः आपका पत्र क्र. 19 दिनांक 07/10/22

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 753वी बैठक दिनांक 26.10.2022 में निम्नानुसार निर्णय लिया गया :—

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 598वीं बैठक दिनांक 07/10/2022 में शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

"................ अतः सिमिति शहडोल जिले की जिलां सर्वेक्षण रिपोर्ट (अन्य गौण खिनज – रेत को छोड़कर) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 598वीं बैठक दिनांक 07/10/2022 के अनुमोदन प्रस्ताव को मान्य करते हुए शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदानुसार जिला कलेक्टर, शहडोल को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

उपरोक्त निर्णयानुसार कृपया अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करने का कष्ट करें। सुलभ संदर्भ हेतु अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट की साफ्टकॉपी ई—मेल के माध्यम से आपकी ओर प्रेषित है।

(श्रीमन् शुक्ला) सदस्य सचिव

क्र.. प्रतिलिपि :-- /SEIAA/2022 भोपाल

दिनांक

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

2. संचालक, प्रशासन/तकनीकी, संचालनालय, भौमिकी तथा खनिकर्म, 29—ए, खनिज भवन, अरेरा हिल्स, भोपाल (म.प्र.)

3. सदस्य सचिव, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई—5, अरेरा कॉलोनी, भोपाल (म.प्र) — 462016 की ओर सूचनार्थ।

सदस्य सचिव

STAICT SURVEY REPORT SHAHDOL DIGIRG





Prepared By: DSR Committee Shahdol

State Level Environment Impact Assessment Authority, M.P. Paryayaran Parisar (M.P.)
E-5, Arera Colony, Bhopal (M.P.) कार्यालय कलेक्टर (खनिज-शाखा) जिला शहडोल म.प्र.

कं. 19 / खनिज / 2022,

शहडोल दिनांक 07/10/2022

प्रति,

(H)

सदस्य सचिव राज्य स्तरीय विशेषज्ञ आकलन समिति SEAC भोपाल (म.प्र.)

विषय:- संशोधित DSR (OTHER MINERALS) जिला शहडोल।

संदर्भ :- SEAC बैठक 598 दिनांक 07/10/2022 में दिये निर्देश।

विषयांतर्गत अनुरोध है कि SEAC बैठक 598 दिनांक 07/10/2022 में जिला शहडोल की जिला सर्वेक्षण रिपोर्ट DSR (OTHER MINERALS) के संबंध में की गई चर्चा व दिये गये निर्देशानुसार आवश्यक संशोधन उपरांत संशोधित DSR (OTHER MINERALS) जिला शहडोल आवश्यक कार्यवाही हेतु प्रस्तुत है।

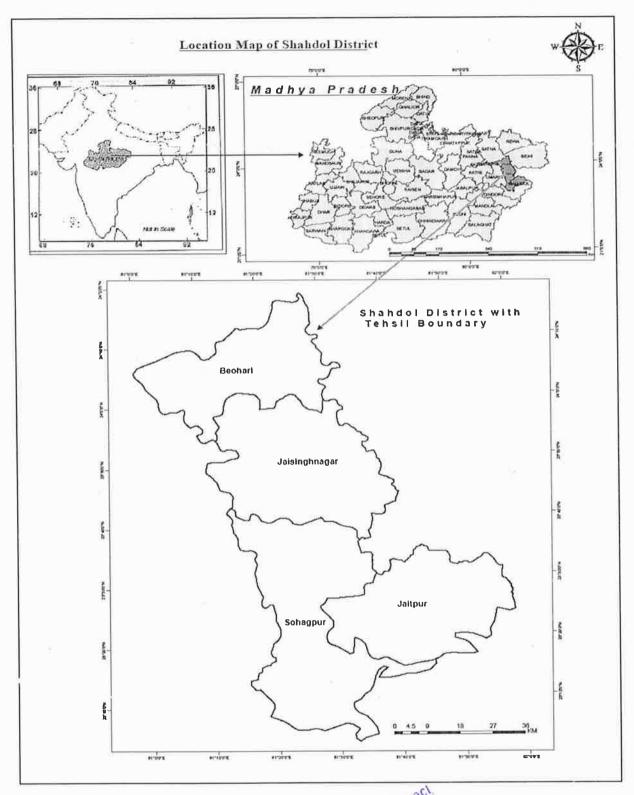
धन्यवाद

प्राथा

प्रमोद शर्मा

खनिज अधिकारी

जिला शहडोल



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CHAPTER-1 INTRODUCTION

The District Survey Report was prepared by the According to Para 7 (iii) Annexure 10 of the revised notification dated 25 July 2018 issued by the Ministry of Environment, Forest and Climate Change, Government of India, provisions have been made to prepare a separate district survey report for sand minerals in the Sand and Enforcement and Monitoring Guidelines for Sand Mining 2020. The main purpose to prepare the district survey report is to identify the land increase or divisional areas and its infrastructure, structure and installation, distance from where the mining is prohibited and re calculation of annual replenishment and time required for replenishment after mining. The district survey report will be based on the application for evaluation of project.

This report is prepared for Minerals of District Shahdol. District Shahdol comes under Administration of shahdol (M.P.) The District is bounded by sidhi & satna district in north, Umaria in west, Anuppure in south and Chhattisgarh state in east. The Shahdol District is located in the Eastern part of Chhattisgarh state and in covered in Survey of India Degree sheet Nos.' 63D, 63H, 64 A & 64 E between Latitude 23° 03'-24°20' and Longitude 80°58°-81°58". District shahdol covers an area of 5,671 square kilometer.

Shahdol is the district head quarter and Sohagpur, Beohari, jaitpur, Burhar, Gohparu and jaisinghnagar are some of the Tehsil Place. Shahdol is located on the Bilaspur-katni section of the south-eastern railways. All important places within the district are well connected by a network of state highways and all weather roads, The Son River and its tributaries drain central part of the district. Narmada and johilla rivers originate from Amarkantak (1062m).

The Shahdol district in located in the north-eastern part of the deccan plateau, It lies at the trijunction of maikal ranges of the satpura Mountain, the foot of the kymore Range of the Vindhya Mountain. In between these hill ranges lies the narrow valley of the Son and its tributaries.

Physiographically, structural land forms, represented by plateau and low lying plains with average altitude of 450m to 500m above MSL, are developed in nottheren-easteran and north-western and central parts of the district. In the southern part of the District, hills and highlands of Maikal Range and high to medium level (500 mto 990m) plateau and flat topper,

Step like terraces are developed. Fluvial land forms represented by flood plains are present along the western boundary of the district. The maximum elevation of the area is 1123m above mean sea level at singingarh Hill (23°03' 4": 81°27' 37") in Satpura hills in southern part the district. Tributaries of Son River in the district are Johila, Gujar Kewai and Tipan rivers. The primary occupation of the majority of the population in the district is agriculture and allied activities. On one side the spectrum of its florisic socio-cultural diversity and ethinc history of tribal.

State Level Environment Impact
Assessment Authority, M.P.

Particle (EPCO)

CHAPTER-2 OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

Shahdol district is an important district for mineral deposits in Madhya Pradesh, in which coal, coal bed methane gas, fire clay, ocher's and iron ore are the main minerals. The Minor minerals are Dolerite, Laterite, Marble, stone, murum and River sand etc. are also found in huge quantity in the district.

Shahdol district has 19 coal mines in which 12 mines is in working condition and 7 coal mines is in not working condition, 01 Coal bed methane gas plant, 172 stone Mines, and 50 sand mine (tender) in total. In which 11 coal mines are operating by south eastern coal mine, this is subsidiary of Coal India limited, 01 coal block is operated by altra Tech. Company, Coal bed methane gas plant is running by Reliance industries. According to previous year and current financial year, shahdol district revenue is continuously increasing.

State Government, is carrying on various infrastructure development projects in all districts, like pachri Nirman, Dams, Over bridge on rivers/ nalla, approach roads etc. in addition to these various power plants, steel plant and cement plants in private sectors are under implementations, all above civil works require stone boulders in different sizes which is in huge in demand.

Total Yearly Revenue in all Minerals during last three financial years is as follows:

S.N	FINANCIAL YEAR	REVENUE
1	2019 - 20	1501283843.00
2	2020 - 21	1488011910.00
3	2021 - 22	2064338928.00



CHAPTER-3 THE LIST OF MINING LEASES IN THE DISTRICT WITH LOCATION, AREA AND PERIOD OF VALIDITY

SAND MINES

क्र	ग्राम का नाम	तहसील का नाम	खसरा क्रमांक	रकवा (हेक्टेयर)	घोषित	घोषित करने का पत्र क्रमांक एवं दिनांक
1	चाका		853/1317	2.023	घोषित	पत्र क्रमांक 2782 दिनांक 31.12.2018
2	बदुरा	बुढ़ार	1279/1567	5	घोषित	पूर्व से घोषित।
3	चाका		853/1317	2.023	घोषित	पूर्व से घोषित।
4	पोड़ीकला		1801/2062	4.8	घोषित	पत्र क्रमांक 2783 दिनांक 31.12.2018
5	पोड़ीकला	(E)	2055/2063	3.9	घोषित	पत्र क्रमांक 2782 दिनांक 31.12.2018
6	भटिगवॉ खुर्द		91	4.8	घोषित	पत्र क्रमांक 1998 दिनांक 13.09.2018
7	मसीरा		39/534	20	घोषित	पत्र क्रमांक 134 दिनांक 30.01.2020
8	दतारी	जयसिंह नगर	191/242	0.829	घोषित	पत्र क्रमांक 2219 दिनांक 06.12.2019
9	पसौढ़		455/472, 291/471, 7/470	43.303	घोषित	पत्र क्रमांक 2216 दिनांक 06.12.2019
10	अटरिया		1, 52	4.49	घोषित	पत्र क्रमांक 138 दिनांक 30.01.2020
11	सेमरपाखा		223/559	6	घोषित	पत्र क्रमांक 2243 दिनांक 09.12.2019
12	बरकछ		266/1	10	घोषित	पत्र क्रमांक 31 दिनांक 10.01.2020
13	संनौसी	180 More	145 ent Im	P1.457	घोषित	पत्र क्रमांक 137 दिनांक 30.01.2020

14	गंधिया		689	7.355	घोषित	पत्र क्रमांक 142 दिनांक 30.01.2020
15	दादर		567, 568	5	घोषित	पत्र क्रमांक 136 दिनांक 30.01.2020
16	भांगजीर		22, 178	3.484	घोषित	पत्र क्रमांक 135 दिनांक 30.01.2020
17	दरैन		515/1, 315	2.661	घोषित	पत्र क्रमांक 141 दिनांक 30.01.2020
18	बराछ		2524	4.734	घोषित	पत्र क्रमांक 2218 दिनांक 06.12.2019
19	बराछ		2126/1, 2490, 2491	8	घोषित	पत्र क्रमांक 132 दिनांक 30.01.2020
20	बराछ		2526, 2573, 2575/1, 626/1, 616	8	घोषित	पत्र क्रमांक 130 दिनांक 30.01.2020
21	सौंता		380	2.63	घोषित	पत्र क्रमांक 191 दिनांक 04.02.2020
22	पतेराटोला		139/202	4.5	घोषित	पत्र क्रमांक 162 दिनांक 01.02.2020
23	तगावर	जयसिंह नगर	113	1.404	घोषित	पत्र क्रमांक 139 दिनांक 30.01.2020
24	नवागाँव		1, 2,3	4.973	घोषित	पत्र क्रमांक 133 दिनांक 30.01.2020
25	भुरसी	गोहपारू	15	4	घोषित	पत्र क्रमांक 126 दिनांक14.01.2019
26	लोढ़ी		64	3.173	घोषित	पत्र क्रमांक 301 दिनांक 23.01.2019
27	रसपुर		433	4	घोषित	पत्र क्रमांक 2156 दिनांक 03.10.2018
28	बोडिडहा	ब्यौहारी	233	4.5	घोषित	पत्र क्रमांक 100 दिनांक14.01.2019
29	बोडिडहा	lade.	Environment Imp	2.314	घोषित	पत्र क्रमांक 2215 दिनांक 06.12.2019
		SHA ASSESSI	Environment Imm	8		

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30	ब्यौहारी		197, 203, 187, 771 (180 का अंशभाग)	12.177	घोषित	पूर्व से घोषित।
31	जैतपुर		576	2.023	घोषित	पत्र क्रमांक 133 दिनांक 30.01.2020
32	कमता	जैतपुर	685	4	घोषित	पत्र क्रमांक 1741 दिनांक 17.06.2020
33	कोल्हुवा	ગતપુર	1	4.046	घोषित	पत्र क्रमांक 1748 दिनांक 17.06.2020
34	लुकामपुर		1, 158, 159	3.641	घोषित	पत्र क्रमांक 1749 दिनांक 17.06.2020
35	लालपुर	->	2084	5	घोषित	पूर्व से घोषित।
36	रोहनिया	सोहागपुर	167	5	घोषित	पूर्व से घोषित।
37	पटासी		28	5	घोषित	पूर्व से घोषित।
38	पैरीबहरा		718, 559, 572	10.076	अघोषित	वनमण्डलाधिकारी दक्षिण शहडोल से पत्र क्रमांक 1823 दिनांक 27.06.2020 से पुन: जानकारी मंगाई गई है।
39	पड़रिया	जैतपुर	994	4.666	अघोषित	वन सीमा से 250 मीटर की परिधि में आने के कारण आयुक्त शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020 से प्रस्ताव भेजा गया है।
40	पोड़ीकला	जयसिंह नगर	1801/2062, 2055/2063, 1857/2064			10 किलोमीटर की परिधि में नेशनल पार्क है। वनमण्डलाधिकारी उत्तर शहडोल से पत्र क्रमांक 1824 दिनांक 27.06.2020 से पुन: जानकारी मंगाई गई है।
41	सेमरपाखा	जयसिंह नगर	296/552	4 anvironme	ा । स्टामीवित 	खसरे में राजस्व वन अंकित होने के कारण तहसीलदार
1			Mountain value val	duviron	risar (M.P.	

						जयसिंहनगर से पत्र क्रमांक 167 दिनांक 03.02.2020 से जानकारी मंगाई है।
42	सोनटोला (हर्रहा टोला)	गोहपारू	899/982	4.8	घोषित	वन सीमा से 250 मीटर की परिधि में आने के कारण आयुक्त महोदय शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020 से प्रस्ताव भेजा गया है।
43	अमझोर		470, 243, 820, 843	5.26	अघोषित	वन सीमा से 220 मीटर की परिधि में आने के कारण आयुक्त महोदय शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020 से प्रस्ताव भेजा गया है।
44	विशनपुरवा		363	3	अघोषित	वन सीमा से 150 मीटर की परिधि में आने के कारण आयुक्त महोदय शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020 से प्रस्ताव भेजा गया है।
45	अंकुरी	×	617	4	अघोषित	वन सीमा से बफर जोन से लगे होने के कारण आयुक्त महोदय शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020 से प्रस्ताव भेजा गया है।
46	सेमरा		412, 497	4.047	अघोषित	वन सीमा से 200 मीटर की परिधि में आने के कारण आयुक्त महोदय शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020 से प्रस्ताव भेजा गया है।
47	रसपुर	ब्यौहारी	1364, 433, 1316	23	अघोषित 	10 किलो मीटर की परिधि में नेशनल पार्क है । वनमण्डलाश्विकारी उत्तर धार्रेडीविकारी पत्र क्रमांक भीरेटिय
					NAVASSESS	THE INTERPRETATION

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(9) निम्नलिखित प्रारूप के अनुसार जिले में खननपट्टी के ब्यौरे:-

DISTRICT SHAH YOU

खंदाना म कराये गये प्रकार प्रकार		8	यू.क.।ताष्ट्र स.नीम/ जामुन	यू के तिए स.नीम/ जामुन	सू यू क. तिर्गाप्त स. नीमा त्यामुन	यू केलिए स.नीम, जामुन	यू के त्ताष्ट्र स.नीम्/ जामुन	यू.कलाप्ट स.नीम्/ जामुन
ब्धाराम् स्थापे करापे न्ये वृक्षारोपण को संख्या		17	25	23	50	25	23	С
(A)		16	र्खवा	र्ख्वेता	ष्ट्रिय	्रह्म श्री	खुना	खुवा
(अक्षांय एवं देशान्तर)		15	A-24.06,21,92N 81,22,38,90E B-24.06,24,32N 81,22,42,47E C-24.06,27,10N 81,22,39,71E D-24.06,25,13N 81,22,37,16E	A-24,06,6,15N 81,20,44,25E B-24,06,16,90N 81,20,51,32 E	A-24,06,38,82N 81,20,29,20E B-24,06,39,30 N 81,20,31,68 E C-24,06,38,84N 81,20,33,81E D-24,06,35,42N 81,20,33,87E C-24,06,35,04N 81,20,31,95E D-24,06,36,89N 81,20,31,07E	A-24,06,35,70N 81,20,35,58 B-24,06,36,22 N 81,20,38,01 E C-24,06,38,51N 81,20,38,61E D-24,06,38,01N 81,20,38,61E	7-13-05-2016 A-24,06,29,08N 81,20,47,70E B-24,06,39,98N 81,20,51,97 E	A-24,07,48,63N 81,24,46,116 B-24,07,46,59N 81,24,53,53 E C-24,07,49,22N 81,24,53,21E D-24,07,50,11N 81,24,45,91E
कार्ट्य पंचावरणा प्राव्हरणा भीत्र अभि भीत्र प्राप्त होता भीत्र प्राप्त होता भीत्र प्राप्त होता भीत्र भीत्र प्राप्त होता भीत्र भीता भीता भीत्र भीता भीत्र भीता भीत्र भीता भीत्र भीता भीत्र भीत्र भीता भीत्र भीत्य भीत्र भीत्य भीत्र भीत्य		14	10-	गर-का <u>ष्</u> रिव 65-02.03.2017	1735- 07.11.2014	14,11,2017	7-13 05 2016	गर-काप्टव ४-१५,०५,२०१७
काटक गैर-केष्टिव		13	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव
भास्पात(का पंश्वीत्ययेत्य्यी आदिक्षण अपित्रं क्यायी रूप में कार्यशील)		12	कायशात	कायशाल	कायशाल	कार्यशाल	कायशात	कायशाल
क्ष्मन प्रमारम क्षेते की तारीख		F	24/8/2005	22/12/2006	29/01/2008	6/9/2015	3/9/2016	4/9/2016
	1	9						
खननपर्ट कोअवधि (पहता/दूसरा/ नवीनीकरण)	म	6	पहला	पहला	पहला	A A	¥ Z	Z Y
	तक	80	09.05.2025	01.08.2026	28,11,2023	28.06.2025	22.5.2026	22 5 2026
खननपट्ट खननपट्ट काअवाध (प्राराभक) का क्षेत्र (हेक्ट्रेयर मे)	म	7	10.05.2015	02 08 2016	29 11 2017	29.06.2015	23.5.2016	23 5 2016
खननपट ख का की की हैस्ट्रेयर में)	•	9	1,850	1,821	2.672	1.214	1.550	1214
क्षतनपद्गार अनुदान अदिया संख्या एवं तारीख		2	242/15.03 1	564/20 07 1	29/11/201	946- 26.06.201 5	3 05 201	636- 13.05.201 6
पृष्टतार का पता और संपर्क संख्या		4	सिवंत लाइन ब्योहारी जिला शहडोल	ब्योहारी जिला शहडोल	ब्याह्नस् जिला शहडोत 9425713603	व्योह्य जिला यहडोल म प्र 9584602555	व्याहारा जिला राहडोल७४२४३३। ३०२	ब्योहरा जिला शहडोल 9575987839
- - - - - - - - - - - - - - - - - - -		٣	श्री सजय सिंह	म. बजरग स्टान केथर प्रो. सर्वेश सिंह	सुनील पाण्डेय	विषाडुनाथ स्टान केश्वर प्रो.श्री राजीव तामकार	एस स्टान ११ ऑथल १ गोयल	श्री राजन्तु प्रसाद गुप्ता आ.श्री रामधनी गुप्ता
खानज का नाम		2	पत्थर	पत्सर	IF DO ENVIT	M.P.	पत्यर	पत्थर
		-	-	2	MASSESSMENT	Dimest His by	S	ω
FF (6)		-	5		gla essment	2) Miles (Mr. E.)	S	

थू कः । लाप्टि स <i>ं</i> नीम् <i>।</i> जामुन	यू.केलिए स.नीम/ जामुन	यू के तिगष्ट स नीम/ जामुन	यू केत्तिष्टि स.नीम/ जामुन	ग्नू क. तिम् भ ्तीम्/ जामुन	यू के. तिरोष्टि सं.नीम्/ जामुन	यू क.ालिप्टि स.नीम/ जामुन	यू.केालाप्ट स.नीम/ जामुन	यू.काताष्ट्र स.नीम्/ जामुन
<u>xo</u>	91	15	33	38	24	21	05	15
<u>E</u>	खुली	खुता	ख्रिजी	<u>चि</u> श्रि	खुला	खुला	खुर्व	खुता
1,4-24,06,39,79N 81,20,29,34E	7A-24,55,53,53N 81,22,45,516 81,22,45,516 81,22,47,33 E C-24,5,57,47N 81,22,47,33E D-24,06,57,42N 81,22,43,15E	A-24,6,30,03N 81,22,41,60E B- 24,6,29,44N	A-24,6,7,03N 81,20,19,00 E B-24,6,7,09N 81,20,21,85 E 81,20,22,14E D- 24,6,10,70N	A-24.8.15.31N 81.24.26.86E B-24.8.15.04N 81.24.31.87E C-24.8.20.65N 81.24.32.06E E 24.8.19.75N 81.24.27.80E E 24.8.19.75N 81.24.27.80E F 24.8.20.10N 81.24.28.20E F 24.8.20.10N	[L1-24,6,24 92N 81,20,8,46E L2- 24,6,26,18N 81,20,6,03E L3- 24,6,20,82N	A-24,6,36,07N 81,20,43,236 B-24,6,38,86N 81,20,42,95E	A-23,42,47,7N 81,23,41 E B-23,42,45,45,9N 81,23,45 E C-23,42,44,1N	A-548941,951N 2618527 666E B-549054,312N 2618568,770 E
714-40184 103-10.08.201.A-24.06.59.790N 81.20.29.34E 81.20.23.39.21E CCC 24.06.41.06.33.39.ECCC 81.20.34.40E 81.20.34.40E 81.20.32.91E	गर-काष्ट्रव 72-28.07.2017 A-24.5.53.53.81 81,22,43.51E 81,22,47.33 E C-24,5.57.4 81,22,47.33E D-24,06.5 81,22,43.15E	गर-काष्ट्रव १०२-१०.०८.२०१	गर-केप्टिव 28-14.11.201	गर-काष्ट्रव 192-12.09.201	गर-केप्टिन 122-14, 11, 201	गर-काष्ट्रव 130- 14.11.2017	गर-काष्ट्रव १२४/५६६ २०१३	गर-काप्ट्र । 396-26.03.201 A-548941.951N 2618527.666E B-549054.312N 2618568.770 E
שונים	कायशाल	कायशाल	कायशील	<u>कायथात</u>	कायशील गर	कायशाल गर	कार्यशील गैर	कायशाल गर
13/8/2017	14/9/2017	2/10/2017	4/11/2017	6/12/2018	10/11/2017	6/12/2017	06.06.2013	16/8/2015
d Z	<u>ط</u> ک	A A	ď.	AN N	Ϋ́ Υ	ď Z	Υ	ď Ž
30.05,2027	22, 03, 2028	19.07.2027	29.08.2027	27 09 2028	24.08.2027	29.08.2027	29 01 2023	28 04.2025
71.05.2517	23 02 2017	20.07.2017	30 08 2017	28 09 2018	25 08 2017	30 08 2017	30,01,2013	29 04 2015
7 000 201	239- 28 08 201 7	1866- 19.07.201 7	1,000	1781- 4 000 07 08 201 8	5080- 31,03,201 7	2336- 1.218 29 08 201 7	32-7- 02 01 201 4	607- 16 04 201 5
23 कान्स्टेब्शन 02 ब्योहारी जिला 7 शहडोल 9171357136	रोवा जिला रोवा 23 म प्र			अकोना तहसाल कोटर जिला सतना म प्र. 8770905698	वार्ड क्र02 ग्राम दुदरिया तहसील ब्योहारी जिला शहडोल म.प्र	रावा राड योहारी तहसील ब्योहारी जिला शहडोल १५६४६००		प्राम कुवरा 607 तहसील 16 जयसिंहनगर 5 जिला शहडोल म प
जा दब क्या है। इंडिस प्रापवंद लिमिटेड अधेरी	मसर्वे इटलेक्स इफ्रास्टक्बर	ਆਂ उपन्द्र सिंह आ श्रा सतेन्द्र सिंह	iii ii	ा पत्थर हेजा। एयोसंस्ट हुजीनियम् एवड कान्ट्रेक्टर पार्टनर श्री दीगनारायण सिंह आ श्री राजेन्द्र सिंह एवं श्री अपन नारायण आ श्री राजेन्द्र सिंह	मसस आर एस स्टोन केशर प्रो श्री प्रमोद कुमार गोयल	मान विचाइनाथ क्यार मा श्री रक्षेत्र ताप्रकार	_	श्री शलद्ध कुमार मिश्रा निवासी ग्राम कुवश तहसील जवसिहनगर जिला शहदोल म प
ž	पत्सर			E atalet evel En	ironme.	भ ः। विश्वर		पत्रेर
·	ω	თ	10	= Julius see 30	5	6	4	č.

यू.कलिए स.नीम/ जामुन	यू केतिग्रप्ट स.नीम/ जामुन	यू.कतिप्तिष्ट सनीम् जामुन	यू.क।ताष्ट्र स.नीम्। जामुन	यू.कत्ताष्ट्र स.नीम्। जामुन	यू क. लाए स. नीम्। /जामुन	यू.क।ताष्ट्र स.नीम, जामुन	यू क.ालाप्ट स.नीमा जामुन
8	24	30	72	21	8	25	25
चि श्र	र्ष्ट्रला	चि श्र	ख्री	खून	खूर्ज	खूर्वा	खुला
南印曜町	कायशाल गर-काष्ट्रव 18-13.05.2016.4-23.42.46.78N 81.17.28.90E B- 23.42.46.34N 81.17.55.82E C- 23.42.43.66N 81.17.35.66E D- 23.42.43.96N	कापशाल गर-काष्ट्रव 29-08.06.2018 A-23.39.32.76N 81,32,28 62E B- 23,39,36.22N 81,32,30,31E C- 23,39,4,89N 81,32,32,23E D-23,39,33,21N 81,32,32,33E	कापशाल गर-कापृष् 28-08.06.2018 A-23.39.32 76N 81,32,28.62E B- 23,39,36.22N 81,32,30.31 E C- 23,39,34,279N 81,32,32.28 D- 23,39,33.21N	कापशाल गर-काष्ट्रप 281-10.05.202 A-25.42.39.65N 81.17.32.62E B- 23.42.39.73N 81.17.41.17 E C- 23.42.34.66N 81.17.41.23E D- 81.17.41.23E D-	कापशाल गर-काष्ट्रव 144-25.01.201 त-23.40.26.64N 81.29.2.60E B-23.40.25.98N 81.29.6.41E C-23.40.28.73N 81.29.6.98E D-23.40.29.47N 81.29.2.97E	南印料(日 	कापशाल गर-काष्ट्रव 71-28.07.2017L1-23.42.40.82"N -81-23.40.47"E L2-23.42.40.68"N 81-23.44.54"E L3-23.4235.22"N
NA 8/2/2016 क	NA 14/10/2016 क	NA 3/6/2017 क	NA 3/6/2017 क	NA 8/6/2017 क	NA 5/6/2017 क	NA 13/122016 क	NA 13/8/2017 क
15 27 12 2025	3.6.2026	2.1.2027	2.1.2027	17 27.03.2027	7 24 02.2028	6 0 2.09.2026	7 30.05.2027
6 28 12 2015	4 6 2016	03.01.2017	3 1 2017	28 03 2017		03 09 2016	31 05 2017
1712- 20/10/201 5	2 000	940- 05 07 201 6	941- 05 07 201 6	828- 25.03.201 7	400- 23.02.201 7	1157- 27 08 201 6	1361- 2.000 23.05.201 7
जयसिहनगर जिला शहडोल म.प्र. 9424369394	ग्राम गिरूड्वड्री तहसील जयसिंहनगर 9630484657	ग्राम अमझार तहसीत जयसिंहनगर जिला शहडोत म प्र	ग्राम अमझार तहसील जयसिंहनगर जिला शहडील म प्र.896902413	जयसिहनगर जिला शहडोत म प्र 98933006645	कुबरा तहसीत जयसहनगर जिला शहडील म प्र 9926660147	जपासहनगर जिला यहडील म प्र 9424369394	जपासहनगर वार्ड क07 जिला शहडाल म पूर 94243693 94
श्रीमती रजनी तिवारी निवासी जयसिहनगर जिला शहडाल म.प्र.	श्री कृष्णकान्त गुप्ता आ.श्री तवकेथ गुप्ता	श्री राजश कुमार तिवारी आ.स्व.श्री चन्द्रिका प्रसाद तिवारी		श्रीमता सुनाता सिह पत्नी स्व श्री राघवेन्द्र सिंह	रूद्र स्टान कर्यार प्रा. श्री रजनीया कुमार गुप्ता	धारा प्रसाद ला आ श्री दन प्रसाद गुक्ता	ध्यारा प्रसाद ता आ श्री दन प्रसाद युक्ता
16 पत्थर	17 पत्रर	18 पत्पर	19 पत्पर	20 पत्सर	Siale L	E Sement Authorit	I Impact
φ_	41	ω -	о -	50	5 Compulsies	Paris (Fraction)	8

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सं.नीम/ /जामुन	यू.कालाप्ट स.नीम/ जामुन	यू.कालाप्ट स.नीम्/ जामुन	यू.काताष्ट्र स.नीम/ /जामुन	यू.कालाप्ट स.नीम/ जामुन	यू के तिरिष्ट स नीम/ जामुन	यू.क. लाए स.नीम/ /जामुन	ায়াখল	यू.कतिए स.नीम/ जामुन	यू.कालाप्ट स.नीम/ जामुन	यू.काताष्ट्र स.नीम/ जामुन	यू के ति।ष्ट स नीम/ जामुन
3	23	21	16	о	20	52	Tā.	12	20	25	27
- - -	खुला	खुला	खुला	ঞ্জ	खुला	ख्री	खुता	खुला	खुता	खुला	खुर्वा
81°23'46'25"E 81°23'46'25"E 81°23'46'36'28"N 81°23'46'11"E	A-23,42,40,72N 81,17,28,87E B- 23,42,40,66N	A-23,42,40,67N 81,17,28,95E B- 23,42,36,29N	A-23,44,22,62N 81,36,43,46E B- 23,44,22,53N 81,36,41,31E C- 23,44,18,63N 81,36,40,90E D-	A-23,43,16,29N 81,18,19,29E B- 23,43,19,36N 81,18,21,06E C- 23,43,16,81N 81,18,26,88E D-	A-23,40,27,49N 81,36,0,14E B- 23,40,25,05N 81,36,0,07E C- 23,40,23,85N	N-23,35,14,37N 81,16,57,04E 19-23,35,16,98N 81,17,596 E C-23,35,19,23N 81,174,92E	A-23,24,15,97N 81,27,38,58E B-23,24,19,09N 81,2704,27 E	A-23,26,57,33N 81,23,44,66E B-23,27,00,97N 81,23,45,80E C-23,22,01,29N 81,23,43,54E	A-23,29,4 76N 81,32,48,441 B- 23,29,41 12N 81,32,49,27 E. C-	A-23,25,1.73N 81,33,17,20E B-23,25,1 46N 81,33,19,83E	1.1-23°3738 53°N 81°27'16.51°E 1.2-23°3737 43°N 81°27'17.21°E
3.11 95.27 18 13.27 15.3	गर-काष्ट्रव 116-28.08.201	गर-काष्ट्रव 115-28.08.201 त-23,42,40.67N 81,17,28.95E 23,42,36.29N	7R-40129 92-10.08.2017 A-23,44,22.62N 81,36,43,46E 23,44,22.53N 81,36,41,31E 23,44,18.63N 81,36,40.90E	7天帝12年 114-28.08.201 (A-25,45,16.29N 81.18.19.29E 25,43,19.36N 81.18.21 06년 23,43,19.81N 81.18.21 08日 81.18.21 08日	7R-40194 125-28.08.201 A-23,40.23,40 81.36.0.146 23,40.25.05N 81.36.0.076 23,40,23.85N	7代: 帝昭 447-07 04-201 (A-2),35,14 37N 81.16,57 04E B-23,35,16 98N 81.17,596 E C-23,55,19 23N 81.17,4 92 53 53 54 64 53 54 64 53 54 64 53	71元-南12年 365-26.05.20』 A-23.24.15.97N 81.27.38.58E B-23.24.19.09N 81.2704.27 E	गर-काष्ट्रव 13.05.2016	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव 99-10.08.2017[1.1-23*3738.53*3 81*27*16.51*E 12-23.3737.43*3 81*27*17.21*E
	कायशाल गर		कायशील गर	कार्यशील गेर	कायशाल गेर्	कायशाल गेर	कायशाल गर	कायशाल गर	कापशाल गर	कायशाल गर	कार्यशाल गर
/107/9/8	9/11/2027	9/11/2027	6/10/2017	11/11/2017	21/4/2017	29/1/2016	1/1/2014	14/10/2016	8/5/2017	22/7/2017	20/10/2017
Σ Z	A Z	A A	A A	A Z	₹ Z	ď Z	A A	₹ Z	AN A	AN A	AN A
27 03.2027	28 08 2027	28.08.2027	20 7 2017	20 8 2027	15 01 2027	30 09 2025	30 09 2023	13 6 2026	17.1.2027	01 03 2027	19.7.2027
78.03.2017	29 08 2017	29.08.2017	तक 7.2027 द	21 8 2017	16 01 2017	01 10 2015	01.10.2013	14 6 2016	18 1 2017	02 03 2017	20 7 2017
000	2 500	1 619	1.000	2 000	1 2 500	2 000	0 1 554	1 000	2 000	4 000	1 000
4589- 24 03 201 7	2105- 05.08.201 7	2106- 05.08.201 7	1556- 24 06 201 7	2040- 03 08 201 7	2957- 30 11 201 7	1560- 29 09 201 5	1046/13 0 9.2013	635- 13.05.201 5	42- 10.01.201 7	423- 25 02 201 7	1844- 17 07 201 7
हा म आन ।सट। यहडोल म प्र 877040070 2	गिरूड बड़ी तहसील जयसिहनगर	गरूई बड़ा तहसील जयसिहमार	ग्राम महुआ टाला तहसील जयसिंहनगर जिला शहडोल म प्र	ग्राम कनाड़ी खुद तहसील जयसिंहनगर जिला शहडोल म प्र	वाड कमाक 14 शहडोत म प्र 942570997	मलदा तहसील गोहपारू जिला शहडोल 9669135655	दियापीपर तहसील गोहपारू जिला शहडोल 9993407323	बार्ड न १६ ग्राम रोहनिया तहसील सोहागपुर जिला शहडोल म प्र. 9752563562	बरदाहा तहसील गाहपारू जिला शहडील म प्र 769294789	नवलपुर जिला शहडोल म प्र 834914609 8	ानवासा बल्ला जिला शहडोल म प्र 877029913
धुव कान्स्टब्दशन म्बाहित्यर मुख्तयारआम् श्री अनुपम सिह् भदोरिया	श्रा कृष्णकात गुप्ता आ श्री तवकेश गुप्ता	श्र कृष्णकात गुप्ता आ श्री तवकेश गुप्ता	श्री चन्द्र प्रकाश शव आ श्री रामनिहार शव.	श्रीमती पुष्पा शर्मा पत्नी श्री शामनदेश शर्मा	शक्ति मिनरत्स प्रा श्री आर वी मिश्रा	म तिवारो स्टान केशर प्रो श्री महेन्द्र कुमार तिवारी	मा सरवर	श्रा यज्ञयताप सिंह आ श्री तेज प्रताप सिंह	198वी आ पुरूपातम नायक आ श्री याना नायक	श्रा आशोष तिवारा आ श्री वालकृष्ण तिवारी	श्री कमलश कुमार तिवारी
7 7 7	पत्यर	पत्यर	पत्थर	पत्पर	पत्यर	le .	evel En		B.	पत्थर	पत्यर
4	25	26	27	58	58	Saulas	essmen ((0.35	E	34	35

भू कः। तार स. नीम्। जामुन	ाशायल	यू.क।ताष्ट्र स .नीम/ जामुन	यू.काताष्ट्र स.नीम/ /जामुन	ाशायल	यू.कालाप्ट स.नीम/ /आमुन	यू.केालाप्ट स.नीम्/ जामुन	यू.केाताष्ट स.नीम्/ जामुन	यू.काताष्ट्र स.नीम/ /जामुन	यू क. त्लाप्ट स .नीम/ जामुन	यू.काताष्ट्र स.नीम् /जामुन	यू कः ।ताष्ट स.नीम/ /जामुन	यू.काताष्ट्र सनीम्। जामुन	यू.क.ालाप्ट स.नीम/ जामुन
57	TE TE	17	25	[A	15	18	14	13	17	22	90	32	34
<u>E</u>	खुली	खुता	खुला	खुला	र्ष्वला	खुला	खुता	खुता	खुला	खुला	खुला	खुला	खुली
A-23,25,1-73N 81,33,17-20E B-23,25,1,46N 81,33,19,83E	A-23,35,13 15N 81 16,53 84E - B- 25,35,14, 16N 81 16,57 86 E- C- 3,35,67 86 E-C-	A-23,26,56,86N 81,23,28,64E B- 33,26,57,12N 81,23,2,62,E C- 23,27,0,28N	L1-23-2743-64"N 81-2427-33"E 12-23-2743-30"N 81-2435-50"E	A-25,24,17,18N 81,32,34,55 B-25,24,16,98N 81,32,40,07 E C-25,24,22,58N	L1-23 1634 76" N 81 2748 13"E L2-23 1630 42" N 81 2749 65"E	L1-23 1623 04" N 81 2758,33"E 12-23 1622,22" N 81 2758,18"E 13-23 1621,53" N 81 280 85"E 14-23 1620,77" N 81 280 96"E	L1-23 1613 79" N 81"2737,36"E L2-23 1618 22" N	11-23°15'14 75" N 81 '28'17 25"E 12-23 15'19 42" N	A-23.17.4.05N N1,27.21.20E B-23.17.6.02N S1,27.14.39E	A-23, 17,05, 70N 81,27,27, 68E 8-23, 17,06, 73N 81,27,29,71E	A-23, 16, 19, 20N 81, 28, 17, 53E B-23, 16, 20, 02N	E1-23.17.09.96N 81,29.51.28E 1.2- 23.,17,10.96N 81,29,54.03E 1.3-	A-23,10,06,40N 81,19,37,70E B-23,10,06,63N
7R-Ф1P4 86-10.08.2017/A-25.25.1.75N R1,33.17.20E B-25.25.1.46N R1,33.19.83E	7代-南段 84-10.08.2017 A-23.35.13.15N 81 16.53.84년 25.35.14.16N 81 16.53.86 81 16.53.86 81 16.53.86 日	772-80199 45-29.01.2011 A-23.26.56.86A 81.23.28.64E 23.26.57.12.N 81.23.25.62.1E 23.25.25.12.N	गर-काष्ट्रव 126-14, 11, 201	गर-काएव १९३-१२ ०९ २०१	773-80129 040-13.03.201 L1-237-634.76" N 81 2748.137E L2-237-630,42" N 81 2749,637E	गर-काप्टव ७२३-१७.११.२०१	गर-काप्य ३४-०४.०६.२०१६।.।-२३°।६।१३.२9° ४१°२७५३,३६°°E ।,2-२३°।6।8,22°	गर-काष्ट्रव (४६०-१3,03,201,L1-23°15'14,75° N 81"28'17,25"E L2-23°15'19,42° N	17.4024 17.4050 17.405	गर-काष्ट्रव <u>ऽ</u> ६०. २० १५ १५ १५ १५ १५ १५ १५ १५ १५ १५ १५ १५ १५	गर-काप्य ३1-08.06.2016 त-23,16,19,20N 81,28,17,53E B-23,16,20,02N	7元- 前 段 20-13.05.2016 L1-23.17.09.96N 81.29.51.28E L2 23.17.10.96N 81.29.54.03E L3	শ্ ন-কা ছিৰ ₁₇₂₇ -29.01.20
कायशाल	कायशील ग	कायशाल	कायशाल	कायशाल	कायशाल		कापशील र	कायशाल		कायशाल	कायशाल	कायशाल	कार्यशाल
14/11/2017	10/1/2016	20/5/2018	14/12/2017	ď Ž	19/4/2014	11/2/2015	13/5/2016	13/7/2015	23/01/2016	23/5/2017	12/5/2016	21/7/2018	11/4/2016
ď Z	¥2.	ď Z	ď Z	ď Ž	A A	₹ 2	A A	Ą Z	A A	दूसरा	A N	Ą	A A
23.08.2027	30 09 2025	15.01.2028	28 08 2027	27 09 2028	16 01 2024	19 11 2024	11.2.2026	29 04.2025	27 10 2025	27 02 2022	01.02.2026	08.01.2028	10 1 2026
24 08 2017	01 10 2015	16.01.2018	29 08 2017	28 09 2018	17 01 2014	20 11 2014	12.2.2016	30 04 2015	28 10 2015	28 02 2017	02 02 2016	09 01 2018	11.1.2016
1 000	1 000	1013	1 500	3 691	1 0 647	1 0 405	1 000	4 1 000	4 000	2 0 809	7 1.214	4 000	1.000
2060- 03 08 201 7	1987- 27 07 201 7	3054- 20 12 201 7	2296- 24 08 201 7		367/02 01	1.2014	147- 11.02.201 6	690/30 04 2015	731- 04 08 200 9	229/19 02 2007	955/08.07 2016	473- 06/03/201 8	70- 11.01.201 6
बाड कमाक-06 शहडोल जिला शहडोल म प्र	मलदा तहसीत गोहपारू जिला शहडोल म प्र 966913565	वाड क १६ शहडोल तहसील सोहागपुर जिला शहडोल म प्र 7000972459	एटा उ प्र	पराता महित्त्ता तहसीत सोहागपुर जिला शहडोत म प्र	शहडाल म प्र 9425844776	दीपशिखा भवन शहडोल 9425181054	दापाशसा भवन शहडाल 9425181054	न्यू वसस्टण्ड शहडोल म प्र 942584477	6	गारतरा जिला शहडील ९४०७०७ १३९३	1	बुदार जिला शहडोल 9425427592	बधवाबड़ा तहसील सोहागपुर जिला शहडोल
श्र आकत जन आ श्री अनिल कुमार जेन	मसस तिवारी स्टान क्रथार प्रो श्री महेन्द्र कुमार तिवारी	no.	कुज मिनरत्स एटा उ प्र	भी वृजन्द सिंह आ भी शेषधर सिंह	प्रेमाठी स्टान क्रशर प्रो. श्री प्रियम त्रिपाठी	राक्या स्टान क्रीसग प्रा राक्या अप्रवात	राकश स्टान कासग प्रा राकश अग्रवाल	म प्रयाठा स्टान केशर प्रो प्रियम त्रियाठी	म शिवम स्टान केशर प्रो श्रीमतो मधु तिवारी	म विनाद स्टान क्रश्नर प्रो गणेश सिंह	म बतवीर स्टान क्रेगर प्रो श्री बलवीर सिंह	म तिरूपात विल्डिकान प्रो पदम कुमार सिधानिया	मारा स्टान क्रशर प्रो श्रीमती मीरा द्विवेदी
पत्यर	पत्यर	पत्यर	पत्यर	, ।स्यर	पत्यर	2	×	Envi	nment I	mpacl EP.	पत्यर	पत्यर	पत्यर
36	37	38	39	0	1	3 mg 4	20 20 20 20 20 20 20 20 20 20 20 20 20 2	4	45	94	47	48	49

भू कः । त्यार सं.नीम्/ जामुन	यू.काताष्ट्र सनीम. जामुन	यू.काताष्ट्र स.नीम्/ जामुन	यू के त्याष्ट्र स नीम/ जामुन	यू.कं.ालाष्ट्र स.नीम/ जामुन	यू.कलाप्ट स .नीम/ जामुन	यू.कलिए स.नीम/ जामुन	यू.कंालाष्ट्र संनीम्/ जामुन	यू.काताष्ट्र स.नीम/ जामुन	यू.कंरंताष्ट्र सं.नीम्/ जामुन	यू केलाष्टे स.नीम/ जामुन	शायल	यू.कालाष्ट्र स.नीम/ जामुन	यू.कत्ताष्ट्र स.नीम/ जामुन	यू.काताष्ट्र स.नीम/ जामुन
Dr.	28	24	38	35	23	23	35	59	32	39	<u>k</u>	35	38	32
E 89	खुता	खुली	खुता	खुली	खुलों	खुता	खुला	खुला	खुला	खुला	खुता	खुला	खुता	खुला
7R-40[24	45-05.09.2016 11-23*19*50-66"N 81-23*10*41"E 12-23*19*49.66"N 81-23*09-05"E	54-22,02,2017 A23,23,24.81N 81,23,39,46E 823,23,26,19N 81,23,41,52 E	71.1-23.217.24"N 81.241.227E 1.2-23.214.67"N		7.4-23.17,00.3N 81,27.48.1E B- 23,16,58.9 N 81,27.48.6E C-	7.4-23.20.3.53N 81,24,15,15E 8-23,20.3.53N 81,24,15.95 C-23.20,8.87N	7R-काएव 449-07.09.201 A23.23.40 \$9000N81, 24.29 87120E B23.23.39.00961N81,	6.A-23,25,49.81N 81,41,51,34E B-23,25,52,,86N 81,41,51,32E		LA-23,40,11,00N 81,33,49,63E B- 23,40,13,31N	E(A-23,24,19,10N N1,36,50,80E B- 23,24,15,88N N1,36,53,46 E C- 23,24,19,76N R1,36,57,36E D.	78-10.08.2017 A-23.14.24.33N 81,43,48.74E B- 23,14,24,13N	774-काष्ट्रव 143-25,01,2011 A-25,16,2,32N 81,31,4,33E B- 23,16,2,48N 81,31,10,82E C-	7R-40124 111-10.08.201 L1-23*16'09 00" N 81 31'00 29"E 12-23*16'06 88" N
188-12.09.201	45-05 09 2010	54-22 02 201.	55-22.02.2017	गर-काप्टव ६८-२७ ०७ २०१७	64-02.03.2017	गर-काष्ट्रव 59-22.02.2017	449-07.09.20	26-13.05.2016	33-08.06.201	गर-काप्टव 10-10,08.201	गर-काप्टव ६४६-२९.०४ २०.१	78-10.08.201	143-25.01.201	111-10.08.201
गर-काएव	गर-काएव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रब	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्टव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव
कायशाल	कायशील	कायशाल	कार्यशाल	कायशाल	कायशाल	कायशाल	कायशील	कायशाल	कायशाल	कायशाल	कायशाल	कायशाल	कायशाल	कायशाल
14/4/2017	13/12/2016	13/4/2017	16/1/2017	21/8/2017	23/4/2017	18/12/2018	16/12/2015	19/10/2016	13/12/2016	8/2/2016	12/5/2012	12 010 2017	15/7/2008	23/8/2017
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3,1,2027	2 9 2026	29 1 2027	15 1 2027	21 05.2027	12 01 2027	28 09 2028	27 09 2025	18.7.2026	22.5.2026	27 12 2025	21 02 2022	02 06 2027	14 04 2028	22.05.2027
4 1 2017	3 9 2016	30 1 2017	16.1.2017	22 05 2017	13 01 2017	29 09 2018	28 09 2015	19 7, 2016	23 5.20 3	28 12 2015	22 02 2012	03.06.2017	15 04 2018	23 05 2017
4 500	4 000	3 000	1 000	1 000	1 000	3 872	1 000	1 619	2 000	2 000	0.405	2 000	1 821	2 023
1680- 31 12 201 6	1156- 27.08.201 6	198- 13 01 201 7	59- 11 01 201 7	1350- 22 05 201 7	22 06 201	1780- 07 08 201 8	1477- 16 09 201 5	939- 05 07 201 6	618- 11 05 201 6	1096- 08.07.201 5	989- 12 08 201 1	1356- 22 05 201 7	544- 14 04 200 8	430/02 04 ;
पाण्डवनगर शहडोल	सिन्दुरी भरी तहसील सोहागपुर जिला याहडोल म प्र 992686845	शहडाल जिला शहडाल म प्र 942586959	शहडाल म प्र	निवासी कंदनपुर तहसील सीहागपुर जिला यहडोल म.प्र.700008135	निवासी नवलपुर 9926868420	पाण्डवनगर शहडोल तहसील सोहागपुर जिला शहडोल म प्र.982680076	निवासां कृष्णाकालोनी शहडोल	ग्राम बराग तहसील जेतपुर जिला यहडेाल म.प्र.	जेतपुर जिला शहडोल9977138 942	चकााङ्या तहसील जेतपुर 9617613106	निवासा रसमाहना जिला शहडोल 9755458651	ागरबा तहसाल जैतपुर जिला शहडोल म०प्र०	बुद्धार जिला शहडोल 9826307827	बुढ़ार जिला शहडोल 9406776500
	श्रा गखर मिश्रा आ श्री कृष्णगोपाल मिश्रा	उजाला स्टान कशर पार्टनर श्री संजय तिवारी एवं श्री संदीप तिवारी	श्रा राघव गाल आ श्रा भाला प्रसाद गांल	प्राची स्टान क्रशर प्रो श्रीमती रागनी सिंह पत्नी श्री राघवेन्द्र सिंह	अनुज स्टान कथार प्रो. श्री अगित तिवारी	श्रीराम कान्सट्रक्षन पार्टनर श्री विवक खोडिपार एवं श्री लीलाधर खोड़ियार दोनो	म साइनाथ कान्स प्रो, श्रीमती माधुरी सिंह	श्री युभकरण सिंह कुयाराम आ श्री माधव सिंह कुयाराम	श्रा माहम्मद याहिया आ श्री मोहम्मद यूसुफ	प्रगात मिनरल्स प्रो गोपाल शिवहरे	विनीत स्टान क्रथर में थी विनीत कुमार सोनी	श्रा आभषक रामा आ श्री दिनेश कुमार रामी	म तिरूपति मिनरत्स प्रो सुनील कुमार,सुरेन्द्र कुमार	म जा एस पिनरल्स प्रो शीमती सरिता सिंधानिया
ਪਵਲ	पत्रर	पत्यर	पत्रर	पत्यर	पत्थर	पत्यर	पत्यर	पत्सर	पत्यर	पत्यर	Party See	E E	nemno#	M.P.

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यू.कालाप्ट स.नीम/ जामुन	यू के लिए संनीम्/ जामुन	यू.केाताष्ट्र स .नीम/ जामुन	यू.केल्लाप्ट स .नीम/ जामुन	यू.कालाप्ट स.नीम/ जामुन	यू.कालाप्ट स.नीम/ जामुन	यू.केलाष्ट्र स.नीम/ जामुन	यू.केत्तिष्ट्र स.नीम/ जामुन	यू.केलाप्ट स.नीम/ जामुन	यू.कत्तार्थ स.नीम/ जामुन	यू केलिए स.नीम्/ जामुन	यू.काताप्ट स.नीम/ जामुन	यू के तिर्गष्ट स नीम्/ जामुन	यू कः।लाष्ट्र स नीम/ जामुन
4°	43	20	50	32	39	31	33	43	34	59	22	35	31
खुता	खुला	खुला	खुता	ख्री	खुता	खूल	ख्र	र्ष्वया	खुता	खुता	र्ख्वेता	र्ष्ट्रिया	र्ष्रवा
11-23 447 74" N 81 3437 22"E 12-23 447 99" N 81 3449 93"E	A-23,3,043N 81,34,34_3E_B+ 23,40,13,31N	A-23,4,7,90 N 81,34,20,50E 8-23,4,6,60 N	1A-23,03,47,35709N 81,34,21,80947 E	A-23,15,24,80N 81,32,54,45E B-23,15,19,27N 81,33,00,51 E	A-23,07,26,60N 81,26,48,52E B-23,07,26,98N 81,26,51,84 E C-23,07,31,63N	A-24,06,30,24N 81,22,44,50E B-24,06,30,54N 81,22,48,75 E	A-23,15,12,08N 81,36,18,15E B-23,15,2,85N 81,36,18,39 E C-23,15,2,78N	L1-23,15,39,89N 81,38,22,41E L2-23,15,39,84N 81,38,26,00E L3-23,15,39,49N	A-23,03,27,28N 81,35,19,36E B- 23,03,23,57N	L1-23 14/59/87"N 81 3215/02"E 12-23 14/56/75"N 81 3214/73"E	773-40129 (407-10-08-201) 1.1-23 (95/30-30"N 81 30/29 58"E 1.2-23 (95/30-18"N 81 30/36 (98");	N-23,16,4 45N 81,36,2 55E B-23,16,3 94N	11-23,15,18,78N 81,31,51,48E 12-23,15,18,48N 81,31,52,71E 13-23,15,14,64N
제대한 290-29.04.2011.1-23*1447.74* 81.34.37.22**E 12-23*1447.99**E 81.3449.93**E	गर-काष्ट्रव बत्र-06.07.2016 त-23.3.043N 81.34.34.3E 23.40.13.31N	गर-काप्य 611-19.03.201 A-23.4.7.90 N 81.34.20.50E B-23.4.6,60 N	गर-काष्ट्रव 115-19 07.201	기자-하[한 68-06.04.2015]A-23.15.24.80N 81.32.54.45E B-23.15.19.27N 81.33.00.51 E	13.05.2016	7R-काष्ट्रव 5667-29.10.20, Ar-24,06,30.24N 81,22,44,50E B-24,06,30.3 81,22,48,75 E	1R-奇段 95-10.08.2017 A-23.15.12.08N 81.36.18 15E B-23.15.2.85N 81.36.18.39 E C-23.15.2.78N	ष्टिब २७९-१२.05.201	गर-कार्य 89-10.04.2017 A-23.03.27.28N 81,35,19,36E 23,03,23.57N	7R-काष्ट्र4 (05-10.08.201 L1-23-14'59.87' 81 32'15.02'1E 12-23 14'56.75' 81 32'14.73'1E	1एव .07-10 08 201	गर-काप्टव 73-28 07 2017	7730129 96-10.08.2017L1-25.15.18.78N 81.31.51.48I 12-25.15.18.48N 81.31.52.71I E.3-25.15.14.64N
कायशाल गर-क	कायशाल गर-क	कायशाल गर-क	कायशाल गर-क	कायशाल गर-क	कायशाल गर-काष्ट्रव	कायशाल गर-क	कायशाल गर-क	कायशाल गर-काष्ट्रव	कायशाल गर-क	कायशाल गर्-क	कायशाल गर-क	कापशाल गर-क	कापशाल गर-क
18/8/2015 কিট	12/7/2018 কাদ	15/12/2015 কাদ	29/9/2015 कार	227/2015	7/1/2013 每形	19/2/2016 কা	23/5/2017	25/8/2017	19/8/2017 奉印	12/12/2017	23/11/2017	16/10/2017	15/10/2017
Y Y	Y Y	₹ Z	₹ Z	₹ Z	ď Z	₹ Z	₹ _N	∢	δ.	₹ Z	4	ď Z	4 Z
26 05 2025	21 04 2028	29 09.2025 तक	14 04 2025	21.04.2025	22 11 2022	08 11 2025	12 1 2027	14 03 2028	08 03 2027	19.07.2027	19.07.2027	05 07 2027	27 07 2017
27 05 2015	22 04.2018	30 09 2015	15 04 2015	22 04 2015	23 11 2012	09 11 2015	13.1.2017	15 03 2017	09 03 2017	20 07 20 17	20 07 2017	06 07 2017	27 07 2017
1 282	3 035	4 683	1416	3 000	0.971	4.000	1 4 000	2.000	2 023	1 400	1,861	1 000	1.000
745- 18 05 201 5	274- 16 04 200 8	577- 13 04 201 5	1559- 29.09.201 5	598- 15 04 201 5	1260- 29 11 201 1	1815- 07 11 201 5	27- 07 01 201 7	571- 08 03 201 7	454- 02/03/201 7	1845- 17.07.201 7	1860- 18 07 201 7	1554- 24 06 201 7	1969- 26 07 201 7
बुढ़ार जिला शहडोल म प्र 9425471704	अनूपपुर जिला अनूपपुर म प्र 975463122	आदश माग अनूपपुर जिला अनूपपुर म.प्र		बुद्दार जिला शहडोल म प्र 9425330933	बुढार जिला शहडोल 9425182073	बढार जिला शहडोल म प्र 9584679220	ৰুহুদে জিলা ঘাहভাল म प্ৰ 9407368840	अमलइ वाड क01 पोस्ट बलबहरा तहसील जेतपुर जिला शहडाल म प्र	आदशं माग अनूपपुर जिला अनूपपुर म.प्र	br 10	छिरहटा तहसाल बुढ़ार जिला शहडोल म प्र 989377992	वार्ड क्र03 बुदार जिला शहडोल म प्र.982618292	गाम समरा तहसील बुढ़ार जिला थहिडाल म प्र 90074159000
म मिश्रा स्टान कथार प्रो श्री प्रेमचन्द्र मिश्रा	म विन्ध्या मिनरल्स प्रा अर्चना पाण्डेय	श्री राजश केडिया	श्रा राजश काडया	म बदहा ट्डस प्रोथीमती ऋचा गुप्ता	बालाजी स्टीन क्रशर अंतरण श्री शारदा प्रसाद तिवारी	मसस सिद्ध साइ स्टोन केशर अंतरण श्री अभय तिवारी	कताया ट्रस प्रा.श्रा नवीन सिंघानिया	राक्या सिंह चंदल आ श्री जीरेन्द्र सिंह चन्द्रेल	श्री राजश कडिया	श्री राहुल तिवारी आ श्री रमाधाकर तिवारी	श्री प्रदीप पाण्डेय आ श्री लिलत पाण्डेय	श्रामतो आचेता सिह पत्नी श्री मनीष सिंह	मससे आर एस कान्स्टेक्यान प्रो श्री चन्द्रशंखर आ श्री जगजीराम पाण्डेय
पत्थर	पत्यर	पत्यर	पत्यर	पत्थर	पत्थर	पत्यर	पत्यर	पत्रर	गत्यर	S तस्त्र	ate Lev	度 Env	conment In
65	99	67	89	ာ ဖ	20	17	72	73	74	22 11	92	77 (E	78

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ाशायल	यू कः।त्साप्ट स _ं नीम/ जामुन	यू.क!लाप्ट स.नीम, जामुन	यू कः त्याष्ट्र स नीम/ जामुन	यू.कालाप्ट स.नीम्। जामुन	ाशायल	यू.क!ताप्ट स.नीम/ जामुन	यू क. त्ताप्ट स ,नीम, जामुन	यू कः त्ताष्ट्र स ,नीम/ /जामुन	थायत	यू क. ततार स. नीम, जामुन
<u> </u>	35	32	59	31	强	38	39	31	<u>F</u>	8
र्ष्वला	खुला	खुता	खुला	ख्रुला	र्खुला	खुता	ख्रिला	क्षिया	खू खू	ख्रुता
7天-南位年 (01-10.08.201 /A-23.15.08.89N 81.36,17.39E B- 23.15.12.38N 81.36,18.00E C-	A-23,15,45,26N 81,32,54,97E B- 23,15,45,09N 81,32,57,96 E C- 23,15,41,35N	A-23,15,0 52N 81,36,13,28E B- 23,15,7 67N	A-23,3,35 85N 81,34,38 73E B-23,3,56 11N 81,34 44 76 E	A-23,3,49,72N 81,34,30,87E B-23,3,49,78N 81,34,33,52 E	7R-काष्ट्रव 113-28,07.201 A-25,15,28 08N 81,32,29,42E B- 23,15,27 87N 81,32,25 23 E C-	1R-本) 24 189-12 09 2011 1-23 1612 6378 11 2745 6374 12-23 1611 947 12-23 1611 947 181 2749 9974	7. 17.02 0°1 85.11 17. 17.02 18 17. 17.02 18.2 17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	A-23, I6,55 00N 81,29,38 991; B- 23, I6,57 05N 81,29,42 96!; C- 23, I6,00 06N 81 79,17 97 E	2	7R-40124 501-05.03.201 N-24.07.44 560 N 81.27.27 594F B-24.07.41 086 N 81.27.27 665 E C-24.07.38 560 N 81.27.27 738 E D-24.07.38 814 N 81.27.27 738 E
q 101-10.08.201	गर-काष्ट्रव 77-10-08-201)	गर-काप्य 69-28-07-2017 A-23,15,0,52N 81,36,13,2NE 23,15,7,67N	गैर-कार्यव <u>194-12.09.201 त-23,3,35 85N</u> 81,34,38 73E 8-23,3,36.11N 81,34,44.76 E	गर-काष्ट्रव 95-12 09.201 त्र-23.3.49.72N N1.34.30 87E 18-23.3.49 78N 81.34.33 82 E	4113-28.07.201	a 189-12 09 201	Ψ.	ά ζ	76-10.08.2017	f 501-05 03 201
गर-काष्ट्र	गर-काष्ट्र	गर-काप्ट	गर-काष्ट्र	गर-काष्ट्र	गर-काष्ट्र	गर-काष्ट्र	गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्र	गर-काप्टर
ď Z	ď Z	ď Z	कायशाल	कायशाल	ď Z	∢ Z	₹ Z	∢ Z	ď Z	कापशाल
12/10/2017	13/8/2017	15/11/2017	11/8/2018	12/8/2018	14/12/2017	3/12/2020	1/7/2018	K K	10/8/2017	1/6/2019
<u>ح</u>	Υ _Z	ď Ž	₹ Z	<u>ح</u>	₹ 2	ď Z	ď	ď Z	A Z	₹ 2
19 07 2027	22 05 2027	4 8 2027	21 05 2018	21 05 2029	23 7 2028	22 10 2026	30 03 2028	30 03 2028	09 08 2027	21 02 2049
20 7 2C17	23 05 2017	5 8 2017	21 05 2018	22 05 2018	24 07 2017	23 10 2021	31 03 2018	31 03 2018	10 08 2017	22 02 2019
2 500	1 000	1 380	2 000	2 000	1,550	0 728	8 000	000 9	1.283	4 500
1865- 14.07.201 7	1354- 22 05 201 7	01 05 08 2017	1137- 15,05,201 8	1136- 15.05.201 8	1720- 07 06 201 7	13071- 72 22 09 202 1	473- 06 03 201 8	474- 06 03 201 8	1962- 25 07 201 7	2742- 29 12 201 8
बदुरा तहसील बुढ़ार जिला शहडोत म प्र.916513815	पकरिया तहसील बुढ़ार जिला शहडाल म प्र	बुद्दार जिला शहडोल म प्र	अनूपपुर जिला अनूपपुर म प्र 9754631222	अनूपपुर जिला अनूपपुर म प्र 9754631222	सतना जिला सतना म प्र	सिटुरा भरा जिला शहडोल	रेल्व स्टशन क पीछे बुद्धार जिला शहडोल म प्र 9425427592	रत्व स्टशन क पीछे बुढार जिला शहडोल म प्र 9425427592	कत्याणपुर तहसील मोहागपुर जिला महडोल म प्र	मससं श्री मावल प्ता. नम्बर १८६. नालदा कालेज रोड. महावीर नगर कटनी जिला कटनी म प्र ८३४९९८४४४
श्री विजय कुमार पादव आ श्री बशधारी पादव,	म प्रताप कान्स्वशन प्रो श्रीमती अनूरानी	केलाथा टुडस प्रा श्रा नवीन सिंघानिया	विस्या मिनरत्स प्रा श्रीमती अर्वना पाण्डेय	विस्या पिनरत्स प्रा श्रीमती अर्चना पाण्डेय	श्रा प्रदाप पटल आ स्वश्री रामावतार सिंह		श्री पदन्म कुमार सिवानिया आ स्व श्री श्रवण कुमार सिवानिया		श्रीमता रजना मश्रा पत्नी श्री एस के मिश्रा	मसर् थ्रा मादल प्ला ट नम्दर १८६. नालंटा कालंज राड. महावीर नगर कटनी जिला कटनी म प्र
पत्यर	पत्यर	पत्थर	पत्थर	पत्यर	पत्सर	पत्यर	राह्नर	गत्पर	State	E aval Environn
62	80	81	82	83	84	85	98	87	S Cull	ssessment Author

nent Impact rity, M.P. Paryavaran Parisar E-B, Arera Colony, Bhopal (M.P.

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र्ष्ट्रे	खुला	र्ष्ट्रता	खुला	खुला	खुवा	खुता	खुवा	खुला	र्खुवा	खुता	खुर्वा	खुता	खुता
A23*31'26.01" 21 81*42 65.73 23*31,81*42'87 32 023*31'33.29" E23*31'38.85" 81*42'80.25	गुर-काएँच 51-22,09,2016,A-24,06,36,07N 81,22,59,99E B-24,06,20,93 N	774-45124 60-22,02,2017 N-21,05,20,30N N1,22,26,85 E B-24,06,23, 67 N	可表面位有 66-02,03,2017 A-24,06,20,908 81,22,32,65년 B-24,06,23,67 N 81,22,31,15 년	可表面12年10.08.201 A-24.6.37.49N 81.25.10.32E B-24.6.35.68N 81.25.10.50 E	774-87129 770-16.07.201 A-24.06.31.14N 81.22.51.02E B-24.06.31.07 N	01 A-24, 10,32, 14 N 81,27, 05,021 B-24, 10,32,07 N 81,37, 16,45 F		21 1.1-24 06/40.21"N 81 23/14/53"E 1.2-24 06/40.54"N	11.1-24.6.4.60N 81.20,15.48E (12: 24.6.4.34N 81.20,18.06E (13: 24.6.10.72N	7R-40124 134-14.11.201 A-24.08.06.93N 81.24.29.09E B- 24.08.10.41N	774-केप्टिब 15-13.05.2016 A-23.40,26.64N 81,29,2.601E B-23,40,25.98N 81,29,6.41E C-23,40,28.78N		A-23,40,13,96N 81,30,10,12E 23,40,12,55N 81,30,10,01 E 23,40,11,83N
230-	51-22.09.20	50-22 02 20	56-02.03.20	04-10.08.20	70-16.07.2	236-08 07 201	76-12-05-2	04-10 08 20	38-14.11.20	34-14.11.20	5-13 05 20	7-28-08-20	6'-14.11.20
गर-काष्ट्रव	गर-काष्ट्रव	गर-काष्ट्रव (गर-काष्ट्रव (गर-काष्ट्रव	गर-काष्ट्रव 7	गर-काष्ट्रव 2	गर-काष्ट्व 2	गर-काप्टव 04-10 08 201	गर-काएव । ३८-१४. ११. २०१	गर-काष्ट्रव	गर-काप्टव 1	गर-काष्ट्रव 17-28-08-201	गर-काष्ट्रव <u>,</u> 36°.14.11.201
₹ Z	A A	ď	A A	Ą	K Z	AA	δ.	₹ Z	₹	₹ Z	ď Z	₹ Z	Ψ V
Ψ.	11/8/2010	19/8/2010	29/8/2010	25/7/2015	14/11/2015	17/12/2015	11/7/2017	12/10/2017	N A	21/11/2017	Υ N	ď	NA
∢ Z	۷ Z	₹ Z	A A	Ψ. V	₹ Z	۲ ۲	₹ Z	٧ ٧	∀	A A	Ψ.Z	₹ Z	A A
17 07 2032	30 05 2020	30 05 2020	30 05 2020	14 04 2020	04 08 2025	27 08 2025	31 03 2027	19 07 2027	28 08 2027	17 08 2027	19.06.2027	06.07.2027	30.08.2017
18 07 2021	31 05 2010	31 05 2010	31 05.2010	15.04.2015	05 08 2^15	28 08 2015	01 04 2017	20 7 2017		18 08 2017	20.06.2016	07.7.2017	30 08 2017 3
4 000	0 309	1,214	1.522	1.473	1.214	1.214	1 000	2 598		1 214	1.214	2 000	2 000
9397-98 22 6 2021	443- 05 05 201 0	442- 05 05 201 0		377- 23 03 201 5	1254- 04 08 202 2	1163- 27 07 201 5	5080- 31 03 201 7	1857- 17 07 201 7	2329- 29.08.201 7	2212- 18 08 201 7	776- 13 06 201 6	1618- 03 07 201 7	2326- 28.08.201 7
निवासी रायपुर छ ग	सिवित ताईन व्योहारी जिता शहडाल९९९३८।1	ब्याहारी जिला शहडील 9755830552	ब्याहारा जिला शहडील 9755830552	ग्वतरमा जिला सिंगरोली म.प्र 9893433476	ग्राम भन्ना तहसाल व्योहरीजिता शहङोल	प्राम भन्ना तहसाल व्योहरी जिला शहडाल म प्र 9630109394	No	ाबतरमा जिला सिगरोली म प्र 9893433476	# 42 F	ग्राम सजहरा तहसील व्योहारी जिला शहडोल	जमुनहा तहसाल जयसिहनगर जिला शहडोल म प्र	15	ग्राम दराड़ा तहसीत जयसिंहनगर जिला शहडोल म प्र
श्रीमतो सुनोता थामी पत्नी श्री पशदत थार्मा	श्री संजय सिंह	म शिवशाक्त स्टान केशर श्रीमती राजश्री सिंह	म बजरग स्टान केशर प्रो सर्वेश सिंह									-	श्रामता अनाता माय पत्नी श्री वृजेन्द्र कुमार मोर्च
पत्यर	पत्यर	पत्यर	पत्यर	पत्यर	पत्यर	पत्यर	पत्यर	पत्रर	पत्रद	ि टिं∧ पत्रर	Environ	Sent Imp	
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खेला	र्ष्वता	खुता	र्ष्वता	खुलां	र्ष्वता	खुला	क्षेत्र	ब्रिया
A-23-45,13 14N 81,37,15.67E B- 23-45,14.05N 81,37,15.70E C- 23-45,14.06N 81,37,15.71E D- 81,37,15.71E	A23.2810.59" N 81.2413.84"E - B 23.2810.48" N81.2415.63"E (23.2813.58" N 81.2416.02"E	A-23,26,09,97N 81,24,57,58E B-23,26,10,09N 81,25,04,27 E C-23,26,12,53N	A-23,40,11 00N 81,33,49,63E B-23,40,13,31N 81,33,59,56E C-23,40,17 08N 81,33,58,50E D-23,40,13 97N	A-23,28,440N 81,24,22,80E 23,28,0,50N 81,24,23,24 E C- 23,28,0,27N 81,24,27,54E D- 23,28,20N	A-23,27,54,60N 81,25,49,88E B- 23,27,54,66N 81,25,50,98 E C- 23,27,50,17N 81,25,51,14E D-	A-23,25,1 47N 81,35,19 84E B- 23,25,1,29N 81,35,20 20 E C- 23,25,1,86N	A-23,28,38,13N 81,19,11,70E B- 23,28,36,06N 81,19,13,84,E C- 23,28,41,44 N 81,19,20,16E D- 23,28,44,30N	11.1-23.28738 13"N 81 1911, 20"E 1.2-23.28736 06"N 81 1913, 84"E 1.3-23.2841, 44"N
7R-@1PQ 149-23.03.2011 A-23.45.13.14N 81.37.15.67E 23.45.14.05.N 81.37.15.70 E 23.45.14.06N 81.37.15.2.7E	11年- 毎1度年 274-26,05,201 A.23,28710.597 81 24715.84715	14.45 15.20 A-23.26.99 97N 18.124.57 58E 81.24.57 58E B-23.26.10.09N 81.25.04.27 E C-23.26.12 53.N	1代-南原母 270-12,05.201, A-23,40,11,00N 81,35,49,63E B-23,40,13,31N 81,35,59,56E C-23,40,17,08N 81,35,58,56E D-23,40,13,07N 81,35,58,59E D-23,40,13,07N 81,35,58,59E D-23,40,13,07N 81,35,58,59E R-24,40,13,07N R-2	गर-काप्टव <u>268-08 07 201</u>	7R-क12q 98-10.08.2017 A-23.27.54 60N 81.25.49.88E 23.27.54 66N 81.25.50 98 E 23.27.50 17N 81.25.51 14E	गर-काएव 87-10.08.2017 A-23.25.1 47N 81.33.19 84E 23.25.1.29N 81.33.20 20 E 23.25.1 86N	गर-काष्ट्रव 186-20.07.201	114-40124 (185-20-07-2011, L1-23-28/38-13"N RT 1911, 70"E L2-22-28/36-06"N L3-22-28/36-14"N L3-23-28/41-44"N RT 1913-14-14"N
A	NA	AA A	ΨZ	Ą	A	A A	ď Z	ď Z
X Y	25/8/2015	21/9/2016	21/07/2017	25/01/2018	12/11/2017	2/3/2017	₹ Ž	ž
AM	₹ Z	₹	4 X	₹ Z	₹ Z	٠ ٢	₹ Z	₹ Z
09.04.2028	14 05 2025	20 9 2026	01 03 2027	14 11 2027	09 08 2027	23 08 2027	20.05.2028	20.05.2028
10 04 2018	15 05 2015	21 9 2016	02 03 2017	15 11 2017	10 08 2017	24 08 2017	21.05.2018	21.05.2018
2 000	1 089	3 379	000 4	1 283	1 000	1 000	1 250	2.500
443- 01 03 201 8	847- 08 06 201 5	1266- 20 09 20 6	1261- 01 03 201 7	23 09 201 7			1045- 26 04 201 8	1043- 26 04 201 6
1	गाहपारू ।जहा। शहडील 7974734427	नहरूनरगर रोवा 1266- 3 म प्र 942503636 20 09 201 7 6	स्टोडयम क पाँछ वार्ड क०६ पाण्डवनगर शहडोल म प्र अंतरण श्री सुधीर सिंह	कमार वसस्टेण्ड के पास तहसील विजराघोगढ़ जिला कटनी म प्र	इंदार हा.मू शिवम कालानी शहडोल तहसील सोहागपुर जिला शहडोल म प्र 989362255	घराता महित्ता शहडोत जिला शहडोत म प्र 9753059080	ग्राम जमीनहा तहसील रामपुर नीकन जिला सीधी म प्र 9630550823	ग्राम जमुनिहा तहसील रामपुर नेकिन जिला सोधी म प्र 9630550823
डोडेपन स्टान केशर पार्टेनर श्री फ्रतुराज द्विनेदी आश्री चक्रधर प्रसाद द्विनेदी		श्रा अजात सिह से गर पिता श्री रामसिंह सेंगर	- h	सावरी गिनरत्स पार्टनर (1)नवाव मोहम्मद खान		श्री सुधीर सिहनारेन्द्र बहादुरसिह	श्रीमता प्रभा देवी शुक्ता पत्नी श्री रामचरण शुक्ता	श्री रामचरण युक्ता आ. श्री मोहनराम युक्ता
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াখাথন	शियत	34 यू.कात्सिष्ट स.नीम/ जामुन	ाशायत	धापत	ाथाधित	शिथल	ाशाधल	ाशायत	াখাখন	ाशायत
खुला	खुता	खुला	खुला	खुला	र्ष्ट्रिया	खुता	र्खता	र्ष्वता	र्ष्वला	र्खुता
L1-23°27'43,72"N 81 18°59,82"E 12-23°27'43,51"N 81 19°02,26"E 13-23°27'37,07"N	1.1-23. 27'59.72"N 81-19'15.82"E L2-23. 27'15.51"N 81-19'12.26"E L3-23'27'39.07"N	A-23,24,12 04 N 81,20,21 90E B-23,24,10,21 N 81,20,26,87 E C-23,24 03 90 N	[A-23,19,49,64N B1,23,34,43E B- 23,19,47,96N B1,23,38,77 E C- 23,19,51,22N	L1-23,23,55,37N 81,20,48,50E L2- 23,23,58,7N 81,20,47,91E L3- 23,23,00,59N 81,20,41,64E L4- 33,23,56,44N	A-23,16-43,36N 81,28,07,59E B- 23,16,43,48 N 81,28,10,90 E C- 23,16,39,70N 81,28,11,34E D- 23,16,39,94N	A-23,17,10 18N 81,29,57 91E B- 23,17,05 74N 81,29,57,44E C- 23,17,05 55N 81 30,07 60E D-	A-23.24.04.04N 81,20,38.73E B-23.24.03.55N 81,20,39.92.E	A-23-17-11-51N 81-29-46-40E B- 23-17-10,39N 81,29-48-75-E C- 23-17-05,04N	A-23-23-42 82N 81-45-21 39E - B- 23-23-42 90N 81-45-24-49E - C- 23-23-46-27N	A-23,25,09,85N 81,30,05,55E B- 23,25,14,86N 81,30,05,71E C- 23,25,17,08N
기국-하া면 184-20.07.201.[L1-23*2743.72*W 81 - 18*59.82**E L2-23 2743.51**W 81 - 1902.26**E L3-23 2737.07**W	गर-काप्टव 183-20.07.201 (L.1-23.27/59.72"N 81 - 1915 82"E L2-23.27/15.51"N 81 - 1912 26"E L3-23.27/59.07"N	7R-80194 268-08.07.201 A-23.24.12.04N 81.20.21 90E B-23.24,10.21N 81.20.26.87 E C-23.24.03.00N	714-केप्टिन 282-08.07.201, A-23,19,49.64N 81.23,14.43E 23,19,47.96N 81.23,38,77 E 23,19,51.22N	기국-화[24 82-10.08.2017 L1-23,23,55,57N 81,20,48,506 L. 23,23,58,7N 81,20,47,91E 1 23,23,00,59N 81,20,41,64E 11 33,33,5,414 HE 11,33,5,5,414 HE 11,33,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,5,	7R-80129 (27-14.31.201./A-23,16.43.36N 81,28.07.59! 23,16.43.48 N 81,28.10.90 E 23,16.39.70N 81,28.11.31E 33,16.39.94N	7R-80129 135-14.11.201 A-23.17, 10.18N 81.20.57 91E 23,17.05 74N 81.20.57 44E 23,17.05.55N 81.30.07.60E	7R- 8 0194 129-14.11.201 A-23.24.04 04/N 81,20.38.73E B-23.24.03.55/N 81,20.39.92 E	7R-40129 94-10.08.2017 N-23.17.11.51.N 81.20.46-40E 23.47.10.30 N 81.20.48.75 E 23.47.05.04.N	7元・奇段 91-10.08.2017 A-23.23.42.82N 81.43.21.30f 23.23.42.90N 81.43.24.49f 23.23.46.27N	गर-काष्ट्रव 93-10.08.2017
A	AM	A A	A A	A A	ď Z	Ā	A A	NA A	₹ Z	Υ
Δ.	Ą	17.08.2016	18/6/2017	10/12/2017	16/11/2017	10/8/2017	25/8/2017	18/8/2017	31/5/2017	28/6/2017
Ψ.	A Z	A A	₹ V	ď Z	ď Ž	δ V	NA A	Ψ.	Ϋ́ X	AN A
20 05 2028	20 05 2028	06.05.2026	27 03 2028	01.08.2027	25 08 2027	28 08 2027	24 08 2027	17 08 2027	30 05 2027	01.08.2027
21 05 2018	21.05.2018	07.05.2016	28 03 2017	02 08 2017	26 08 2017	29 08 2017	25 08 2017	18 08 2017	31 05 2017	02.08.2017
1.320	4 000	1 048	1,719	1 800	1.000	2 000	2 000	1 700	1 000	4 000
1042- 26 04 201 8	1044- 26.04.201 8	1771- 03.11.201 5	826- 25 03 201 7	2212- 01 08 201 7	2278- 24 08 201 7	2279- 24 08 201 7	2272- 24 08 201 7	2219 18 0 8 2017	1355- 22 05 201 7	1985- 27 07 201 7
करादिया तहसाल गोपद बनास जिला सीधी म प्र 963055082	B 3	बाड न 18 बलपुरवा शहडोल 7000626544	काटमा तहसील सोहागपुर जिला शहडोल म.प्र. 9669087761		लालपुर तहसील सोहागपुर जिला शहडोल म प्र 942495450	b/ E		2 H 2	ग्राम सिघली तहसील जेतपुर जिला शहडोल म.पूर	बराग तहसाल जेतपुर जिला शहडोल म प्र 774895844 5
श्री कृष्ण कुमार पाण्डेय आ श्री नवत किशोर पाण्डेय	श्रा कृष्ण कुमार पाण्डेय आ श्री नवल किशोर पाण्डेय निवासी करींदिया तहसील गोपद बनास	l NX	मा उजर आसज मा यूसूफ		मससं क्यर मिनरहस्त पार्टेनर श्री अखिल श्रीवास्तव	श्री आवेनाश प्रताप सिंह आ स्व श्री ऑकार सिंह	श्री कियान त्रिपाठी आ श्री अजय त्रिपाठी	मसस तिरूपति बिल्डकान प्रा लि डारेक्टर श्री हर्षवर्धन सिघानिया	मसस लक्ष्मा कान्स्टब्थान प्रा कृ संनू सिह पुत्री श्री लहान सिह	श्रीमता दयामन्ता सिह पत्नी श्री भगवानदीन सिंह गाइ
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ाशायत	शिधल	ोशीयत	शियत	भायत	27 पूर्कः लिए स.नीम, जामुन	शिथेल	भायत	भिषायल	ाशायल	ाशाथल	ाशायेल
खुला	र्खुता	ख्रिया	्रा ख	खुता	क्षेता	E SP	खुता	र्खुवा	र्ष्ट्रवा	खुता	खुवा
A-23,15,19 73N 81,32,31 57E B-23,15,19 56N 81,32,39 73 E		A-23,15,19,73N 81,32,31,57E B- 23,15,19,56N 81,32,39,73 E C- 23,15,19,07N	A-23,15,30,36N 81,39,495E B-23,15,31,02N 81,39,802 E C-23,15,36,12N 81,39,8 90E B-23,15,40,73N 81,39,9 4NE	A 23*15'08 17" 81'33'08 83 B23*15'07 68' 81'33'09 18 C 23*15'05 80" 81'33'07 52" 023*15'01 38"	A-23.5.30.77N 81.30.28.371 B- 23.5.30.87N 81,30,33.99.E. C- 23,5.31.60N	A234,479N 81,34,4991 B- 23,41,48N 81,34,11,341 G- 23,47,85N 81,34,11,441 D- 23,4,819N 81,34,480E	A-24-7'56 48" 81-23'46.73 B- 24-7'58.89" 81-23'46.69" c-	A-24 06 45 10X 81 22 52 41 C- 21 06,27 10X	A-23,41,00 64N 81,29,47 61E B-23,40,59,24N 81,29,50,49E	A-23,40,42,65N 81,33,34,41E B- 23,40,45,13N	A-23,12,55,48N 81,44,43,47E B- 23,12,55,20N 81,44,58,81 E- C-
गर-काष्ट्रव 265-15.02.201 A-23.15.19.73N 81,32.31 57E B-23,15.19.56N 81,32.39 73 E	गर-काष्ट्रव ४१-०६ ०७ २०१६	गर-काष्ट्रव 83-10.08.2017 A-23.15.19.73N 81.32.31 57E 23.15.19 56N 81.32.39 73 E 23.15.19 07N	77c-401g-4 74-31-07-2017/4-23.15.30.365 81,39,4.95E 81,39,4.95E 81,39,8.0.2 E C-23,15,36.125 81,39,8.00E D-23,15,40.735 81,39,9.438	गर-काप्टव 106-10.08.201	712-50129 74-10 -08-201 18-28-58 71 18-28-57 18-28-58 71 18-28-58 71 18-28	गर-काप्टव 119-28 08 201	गर-काष्ट्रव NA	गर-काष्ट्रव १०६७-३1 12 20	गर-काएव ३९-०६ ०७ २०१७	गर-काष्ट्रव 90-10.08 2017 A-23,40.42 6.5N 81,33,34 41E 23,40,43 13N 81,33,34 41E	गर-काष्ट्रव 732-08.06.201 A-23.12.55.48N 81.44,43.47E 23.12.55.20N 81.44.58.81 E
A A	₹ Z	∀	ď Z	ď Z	₹ Z	₹ Z	A A	A A	कायशाल	कायशाल	Ą
9/2/2016	31/1/2017	24/3/2017	5/6/2017	1/8/2017		25/8/2017	ď Z	30/03/2011	25/11/2010	11 11 2010	27/7/2015
ď Z	∢ Z	¥ Z	٩ ٢	₹ Z	ď Z	ď Z	₹ Z	पहला	₹ Z	पहला	A N
08 11 2025	30 1 2025	23 03.2027	04 06 2027	20 08 2027	28 08 2027	24 08 2027	28 09 2030	21 11 2020	24 11 2020	28 07 2020	27 08 2025
09 11 2015	31 1 2015	24 03 2017	05 06 2017	21 08 2017	29 08 2017	25 08 2017	29 09 2020	22 11 2010	25 11 2010	29 07 2010	28 08 2015
4 000	2 000	5 000	2.000	2 000	2 000	2 000	3 444	3 846	1 942	0 687	2 000
1816- 07 11 201 5	1 2015	622- 10/03/201 7	1364- 23 05 201 7	1970- 26 07 201	2056- 03 08 201 7	271- 24 08 201 7	2119/17 0 7 2020	398- 30 10 201 0	918- 12 11 201 0	627- 23 07 201 0	1410- 27/07/201 5
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<u>Chapter -4</u>
DETAILS OF ROYALTY OF REVENUE RECEIVED IN LAST THREE YEARS

No	Year	Name of Minerals Income /	Production
		Coal (Royalty in Rs.)	Production Cum.
1	2019-20	888458493.00	3663256.68
	2020-21	1028244957.00	3919410.58
	2021-22	1035044039	3253139.49
	Total	2951747489	10835806.75
		Gas	Production Cum.
2	2019-20	566211140.00	319.20 MMSCM
	2020-21	373693915.00	438.6 MMSCM
	2021-22	438422115.00	NA
	Total	1378327170	757.8 MMSCM
		Stone Gitti(Royalty in Rs)	Production Cum.
3	2019-20	29000303.00	332694.00
	2020-21	55235972.00	460299.77
	2021-22	41806573	348388.108
	Total	126042848	1141381.88
		Stone (Royalty in Rs)	Production Cum.
4	2019-20	14301250.00	286025.00
	2020-21	11423345	228466.90
	2021-22	3558033	71160.66
	Total	29282628	586652.56
		Murum	Production Cum.
5	2019-20	37250.00	745.00
	2020-21	3272409	65448.180
	2021-22	0	0
	Total	364659	66193.18
		Sand	
6	2019-20		9552453.00
	2020-21		591970.8
	2021-22		1180404.08
	Total		11324827.9
		arly Revenue in all Minerals (Head (0853)
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020-21		1488011910.00	h ment
021-22		2064338928.00	A OUNTERONIONIL

CHAPTER 5

DETAILS OF PRODUCTION OF SAND OR BAJARI OR MINOR MINEWRALS DURING THE LAST THREE YEARS

Financial Year	Sand	Bajari
2019 – 20	9552453.00	0
2020 – 21	591970.8	0
2021 – 22	1180404.08	0
Total	11324827.9	0

State Level Environment Impact

CHAPTER-6

PROCESS OF DEPOSITION OF SEDIMENTS IN THE RIVER OF THE DISTRICT

DRAINAGE:

The entire district is drained by Son river and its tributaries. Thus the area falls in the Ganga basin. The river Son flows due north till the northern extent of the district, making the western boundary of the district Shahdol with Umaria District. Therreafter, the river Son flows due east and marks the northern boundary of shahdol district with Satna district. The inportant tributaries of the Son river are the kunak nadi and the Chuwadi nadi. The river son draining the south eastern parts of the district through its important tributaries like Tipan, Chandas and Bakan flow in the noth- west direction with a dendritic pattern, draining the central plains of the district. Another inportant tributary of the Son River is the Banas river, flowing along the eastern North- western part of the district is drained by the Banas river and its tibutaries namely the janapar river, Kormar nadi, the Rampa nadi, and Odari Nadi, Banas River confluences with the Son River at the northern most tip of Shahdol District.

Son River: The Son originates near Amarkantak in Madhya Pradesh, just east of the headwater of Narmada River and flows North- north west though Madhya Pradesh state before turning sharply eastward where it encounter the south west- northeast- running Kaimur Range. The Son parallels eatward where it encounters the south west-northeast- running Kaimur Range. The Son parallels the kaimur hills, flowing east-northeast through Uttar

Pradesh, jharkand and Bihar states to join the Ganges just above patna. Geologically, the lower valley of the Son is an extension of the Narmada Valley, and the Kaimur Range an extension of The Son river at 784 kilometers (487 mi) long, in one of the largest rivers of India.(2) Its chief tributaries are the Riand and the North Koel. The Son has a steep gradient (35-55 cm per Km) with quick run-off and ephemeral regimes, becoming a roaring river with the rain- waters in the catchment area but turning quickly into a fordable stream. The Son, being wide and shallow, Leaves disconnected pools of water in the remaining part of the year. The channel of the Son is very wide (about 5 km at Dehri on sone) but floodplain is narrow, only 3 to 5 kilometers (2 the Son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow is narrow to the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow is narrow to the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the son is the son is the son is very wide (about 5 Km at dehri on sone) but the floodplain is narrow to the son is the

kilometres(2 to 3 mi) wide. In the past, the Son has been notorious for changing course, as it is traceable form several old beds near its east bank. In modeern times this tendency has been checked with the anicut at Dehir, and now more so with the Indrapuri Barrage.

The flood of Son is very destrctive So mining of sand is inportant for uninterrupted water flow. The erosino nprocess in the catchment area and transportation of sand arong with strong water current during the rainy

season will augment the process of replenishment in the downstream mining lease area and rhe sand will be deposited in river ear after flooding in monsoon season. Whatever quantity of Sand are extracted from the said land during one year, extracted quantity of the sand are automatically replenished every year by the river it self through its replenishament potential which is generated due to its flow, vel; ocity.

During monsoon this bed replenished to a large extend from the Barakar Sandstons, Talchir stones, etc. of Gondwana Group rock formation due to ersion by haavy flow in higher reach and soon as the stream reaches in older channel downward, shed their loans in river bankd due to decrease in velocity and carrying capacity. The annul deposition of 3 -3.5 meters is received. The area will be maintained as it is after monson season.

Fluvial Process (erosion and dedimentation by bater) is the principal process of sedimentation in the plains. Thus the rivers are the olnl source of depositary sedimentation in the district. Process of deposition is preceded by erosion, transportation and finally environment of deposition. Therefore sedimentation process in dependent upon Gellogy& Geomorphology of the area, the gradinent of river, flow of water or velocity of the river or flow of river in the channel in the volume of. Thus flooding in the upstream higher volume of sediments in the downstrem side. Further geo-technical as well as natural obstacles may also caue the deposition of dediments for example natural levee, meanders and structures.

Samdhin River:-The Samdhin River originated from in between village Bedra and Kothia, Tehsil Beohari Dist. Shahdol Madhya Pradesh, the elevation of origin point is 421m. Amsl, and Samdhin River confluences in son river elevation point is 289m. Amsl it is covered between Latitude 23°58'41.56"-Longitude 81°21'25.17". The catchment area of the Samdhin River is 34345ha. and its flows towards Northern direction. The several nalas are joins Samdhin River near jamodi village and Samdhin River takes wider shape. The length of samdhin river is 39km. the geomorphological features of this catchment is feasible for erosion and deposition of river sand. The flood of Samdhin is destructive so mining of sand is important for uninterrupted water flow. The erosion process in the catchment area and transportation of sand along with strong water

current during the rainy season will augment the process of replenishment in the downstream mining lease area and the sand will be deposited in river every year after flooding in monsoon season. Whatever quantity of Sand are extracted from the said land during one year; extracted quantity of the sand are automatically replenished every year by the river itself through its replenishment potential which is generated due to its flow, velocity. During monsoon this bed replenished to a large extend from the Barakar Sandstones, Talchir Stones, etc. of Gondwana Group rock formation due to erosion by heavy flow in higher reach and as soon as the stream reaches in older channel downward, shed their loads in river banks due to decrease in velocity and carrying capacity. The annual deposition of 2.5 - 3 meters is received. The area will be maintained as it is after monsoon season.

Johila River: Origin Maikal Hill from amarkantak (81°45'18.955"E 22°44'12.28"N) Catchment Area: The Johila River originated from Jaleshwar which is about 10 km away from Amarkantak Maikal Hill. After originating from amarkantak teh river flows from Pali manthar of umaria to manpur bijori and meets to Son River near Dashrat Ghat. The elevation of origin point is 1120 m. The total catchment area of Johila River from its origin to dashrat ghat is about 2500 sq km and has a Length of about 235 km. The annual deposition of 2.2 - 2.8 meters is received. The area will be maintained as it is after monsoon season. pg. 17

Kunuk River: -Origin Mahora Hill from Bijuri (81°59'3.03"E 23°30'27.76"N) Catchment Area: The Kunuk River originated from Jheenk-Bijuri village which is about 20 km away from Jaitpur (Kmta) Mahora Hill. After originating from Jheenk-Bijuri Village River flows jaitpur (kmta) of Shahdol to Bargawan, Chuhri, Devgarh and meets to Son River near Khairi Kanwahi. The elevation of origin point is 740m. The total catchment area of Johila River from its origin to Khairikanwahi is about 72561km and has a Length of about 69km. The annual deposition of 2. -2.9 meters is received. The area will be maintained as it is after monsoon season.

Chundi River:- Origin from Lapri- Tilauli village (81°59'3.03"E 23°30'27.76"N) The Chundi River originated from Lapri- Tilauli village which is about 15 km away from Khannaudhi. After originating from Lapri Village River flows Bhatigawan Khurd of Jaishing nagar to Barna Nigai Village and meets to Son River near Rupaula Ghat. The elevation of origin point is 620m. The total catchment area of Chundi River from its origin to Rupaula Ghat is about 53212 ha. and has a Length of about 59km. The annual deposition of 2 - 3 meters is received. The area will be maintained as it is after monsoon season. The chundi watershed, with chundi as a major consequent stream flows east-west having a chatchment area of 532 sq. km inmediately decorated with undulated moderately high denudation hills in the east and south moderately high denudation hills in the east and south moderately and wast and Rough men M.P. ssively well Authoritest and wast Parversian Bhopal (M.P.)

flat weathered buried bedrock surface termed as pediplain, spread over the rest of the region. The boundary of the watershed is formed by water divide of the chundi river system. It is located Shahdol district covering a total area geographically the chundi watershed is bounded by the watershed of Odari nadi in east, halphal and gorna nala in north and south and by the son river in the west, where it meets the son. The major towns of the chundi watershed are jaishingnagar and khannaudhi.

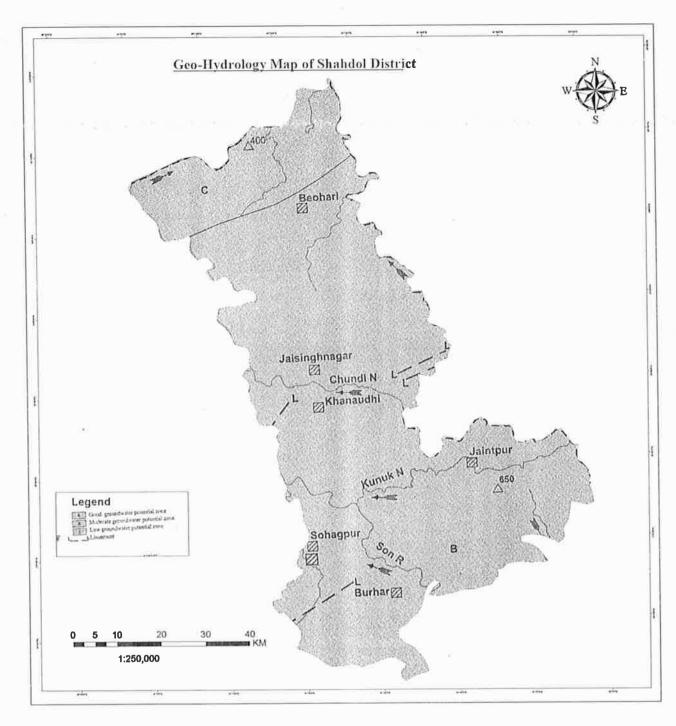
Banas River:- Origin from Koria Diat, Bharatpur tehsil, Ramdaha village (82° 0'14.19"E 23°36'9.60"N). The Banas River originated from Ramdaha village which is about 43 km away from Bharatpur. After originating from Ramdaha Village River flows Bharatpur, Bansukli Bhamarha to Hathwar Village and meets to Son River near Shikarganj. The elevation of origin point is 770m. The total pg. 18 catchment area of Banas River from its origin to Shikarganj is about 2640sqkm, and has a Length of about 162km, flowing along the eastern boundary of the district, marking the boundary of the district Shahdol with Sidhi District. The north-western part of the district is drained by the Banas River and its tributaries namely the, Kormar nadi, the Rampa nadi, and the Odari Nadi. Banas River confluences with the Son River at the northernmost tip of Shahdol District. The annual deposition of sand 2 - 3 meters is received. The area will be maintained as it is after monsoon season. Banas River is located at NE part of the area. The drainage pattern in the area is mostly dendritic to sub-dendritic and the drainage density is low to moderate. Most of the tributary streams go dry during summer but there may be flash during the rainy season. It has been observed that the ground water condition is poor to moderate in major portion of the area thus creating the drought conditions. However, the ground water occurrence is limited to valley fills and pediplains.

Jhapar River: - Origin Village Semra and Tagawar near KARKI (Shahdol dist.) (81°24'15.62"E 23°50'21.35"N) Catchment Area: The Jhanpar River originated from Tagawar village which is about 24 km away from Beohari Tehdil. After originating from Tagawar village, river flows Via Barachh village and meets to Banas River near Bhamaraha. The elevation of origin point is 448 m. The total catchment area of Jhapar River from its origin to Bhamarha is about 20466ha. and has a Length of about 235 km. The annual deposition of 2.2 – 3.0 meters is received. The area will be maintained as it is after monsoon season.

Other Tributaries: - Other Tributaries are as follows: Korma, Rampa, Odari, Chuwadi, Audhi, Bakan, and Mudna. These tributaries finally join Son River and Banas rivers of Shahdol District. These tributaries flowing direction from south to North The annual sand deposition of these tributaries are more/less common approx. 2.2 to 2.8 m. the average slope of catchinent area 2.2 to

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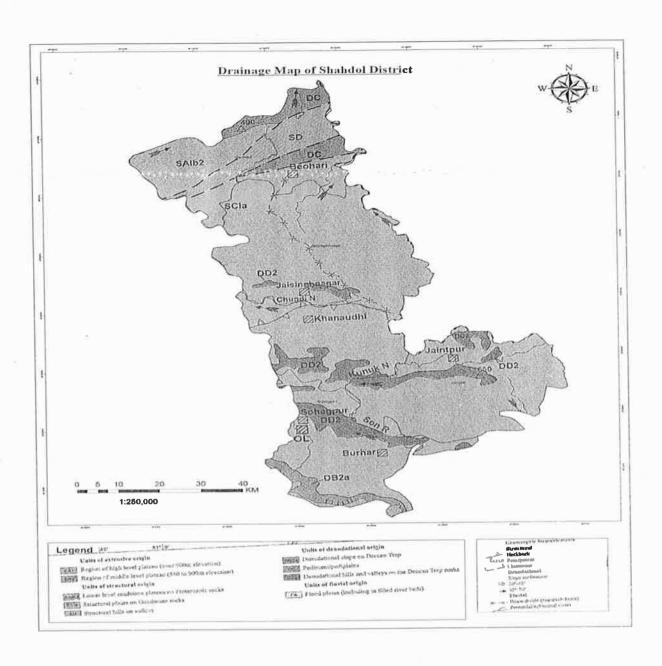
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CHAPTER 7

GENERAL PROFILE OF THE DISTRICT

Shahdol District is a district of Madhya Pradesh state in east central India. With a total area of 5,671 square kilometers and a population of 908,148. Shahdol is an important district of Madhya Pradesh. The town of Shahdol is the district headquarters. The district is also a Division. Some of the districts in this division are Annupur and Umaria.

The Virateshwar Temple in Sohagpur Vangana is the most important tourist destination of Shahdol and a structural masterpiece. The district extends 110 km from east to west and 170 km from north to south.

The total population of the district is 908,100, out of which 391,027 are Scheduled Tribes and 67,528 are Scheduled Castes.

History

The etymology of the name as ascertained from the local residents points to its derivation from the name of the one ShahdolwaAhir of Sohagpur village. The progenitor of the Ex-Illakadar family of Sohagpur, JamniBhan was the second son of Maharaja Virbhan Singh of Bagelkhand.

He decided to settle at Sohagpur and assured maximum facilities to settler around, and also declared that places settled by clearing forests will be named after the pioneer settlers.

ShahdolwaAhir is believed to have settled the former village of Shahdolwa, about 2.5 km. from the headquarters of Sohagpur after this declaration. Later on, the place used to be the camp site for the Maharaja of Rewaand British officers on tour. More villages were grouped into the village of Shahdol as it grew to a town. The District Headquarters was shifted from Umaria to Shahdol after the merger of princely states took place in 1947.

Origin of the name of the District: - Shahdol is named after the headquarters town Shahdol which is located on the Bilaspur-Katni Section of the South-Eastern Railways. The etymology of the name as ascertained from the local residents points to its derivation from the name of the one ShahdoJwaAhir of Sohagpur village. The progenitor of the Ex-Jllakadar family of Sohagpur, JamniBhan was the second son of Maharaja Virbhan Singh of Bagelkhand. He decided to settle at Sohagpur and assured maximumfacilities to settler around, and also declared that places settled by clearing forests will be named after the pioneer settlers. ShahdolwaAhir is believed to have settled the fonner village of Shahdolwa, about 2.5 km from the headquarters of Parvaleran Bhopal (M.P.)

Arera Colony. Sohagpur after this declaration, Lager on, the place used to be the camp site for the Maharaja of

Rewa and British officers on tour. More villages were grouped into the village of Shahdol as it grew to a town. The District Headquarters was shifted from Umaria to Shahdol after the merger of princely states took place in 1948. With lush green forests, natural wealth of coal, minerals and with primitive tribal population, the district Shahdol is situated among the range of Vindhyachal and heading fast in development track. The district has vast reserves of coal mines.

Location

Shahdol District is situated in the northeastern part of the Madhya Pradesh provinces of India.Because of the division of the district on 15-08-2003, the area of the district remains 5671 km2. It is surrounded by Anuppur in the southeast, Satna&Sidhi in the north and Umaria in the west. The district extends 110 km from east to west and 170 km from north to south. This district is situated between 22⁰38' N latitude to 24 ⁰20' N latitude and 80⁰28' E Longitude to 82 ⁰ 12' E longitude.

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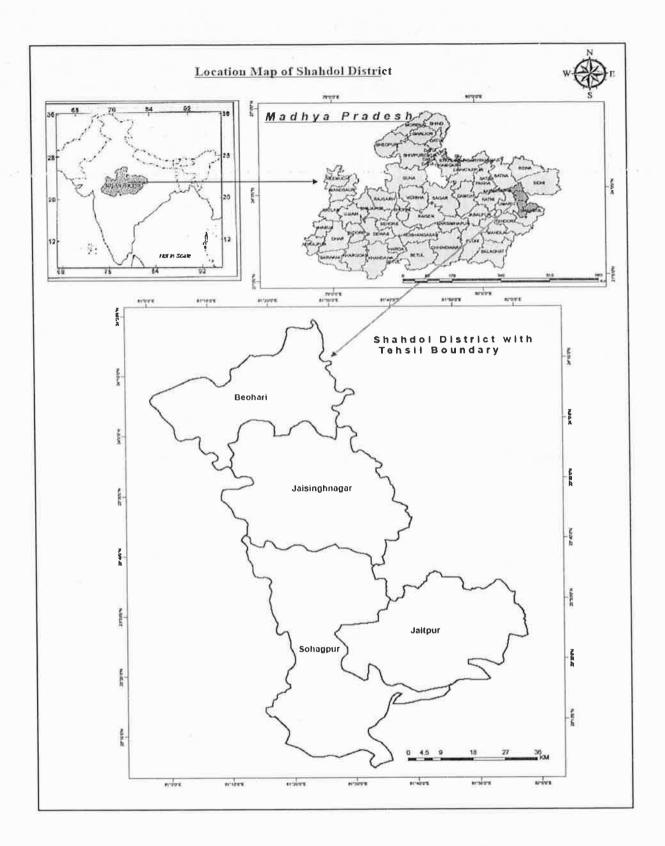
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Topography

The District is located in the north- eastern part of the Deccan plateu. It lies at the trijunciton of Makal Ranges of the (Satpura Range), the foot of the (Kymore Range) an extension of the Vindhya Range and a mass of parallel hills which extend over the Chhota Nagpur Plateau in jarkhand. In between these hill ranges lies the narrow valley of the Son and its tributaries, Since the Kymore Range extends physiographic divisions. They are-

- The Maikal Range
- The Hills of Eastern Plateau
- The Upper Son Valley

Geographical scenario

District Shahdol is predominantly hilly district. It is picturesque with certain pockets and belt of SAL and mixed forests. Total geographical area of the district is 5671 km2 Abjacents to the District shahdol are the boarding district Dindori, Satna, Umaria, Anuppur and Rewa.

Main City & Town of the District

Amlai, Badra, Bangawan, Beohari, Nurhar, Deori, Devhara, Dhanpuri, Dola, Dumar Kachhar, jaisinghnagar, Kelhauri (Chachai, Khand (Bansagar), Pasan] shahdol

Tehsil & Their Literacy

No	Name of	Populatio	Male	Female			Liter	acy		
	the Thesil	n Total			Total	%	Male	%	Female	%
1	Sohagpur	469242	241433	227809	242043	51.58	148109	61.35	93934	41.23
2	Beohari	168334	86444	81890	83561	49.64	52765	61.04	30796	37.61
3	Jaisingh nagar	161717	82093	79624	63712	39.40	41524	50.58	22188	27.87
4	Jaitpur	108855	54814	54041	42563	39.10	41524	50.58	22188	27.87
	Total-	9081148	464784	443364	431879	47.56	270430	58.18	161449 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	m 236.41

Parya Colony, Bhopal (M.P.)

Parya Colony, Bhopal (M.P.)

Administrative Structure

This district is divided into 06 Tahsils, 05 Janpads and 391 village Panchayats. There are 02 Nagarpalikas and 04 Nagarpanchayats. One third part of the district is covered with forest.

Economy

In 2006 the Ministry of Panchayati Raj named Shahdol one of the country's 250 most backward districts (out of a total of 640). It is one of the 24 districts in Madhya Pradesh currently receiving funds from the Backward Regions Grant Fund Programme (BRGF).

Agriculture

District is very backward in the field of agriculture. Tribals of the district prefer the cultivation in the old traditional method. The sizes of the fields are very small and mainly the tribals are marginal fanners. The yearly yield of the products from the fields is not enough for their home use. Hence, for the rest part of the year they work on daily wages. Mahua fruit, wood & seeds are source of income for tribe area people.

Living standard of the tribe

The living standard of tribals is very simple. Their houses are made of mud, bamboo sticks, and paddy straw and local tiles. Tribal men wear Dhoti, Bandi, Fatohi and headgear. Women wear Saree named "Kaansh" saree in the local dialect. The saree is always of body colour. Women in the tribal community prefer to get their body parts hands, legs and neck encovered with colours. They wear different kinds of ornaments made of bamboo, seeds and metals.

Demographics

According to the 2011 census Shahdol District has a population of 1,064,989, roughly equal to the nation of Cyprus or the US state of Rhode Island. This gives it a ranking of 427th in India (out of a total of 640). The district has a population density of 172 inhabitants per square kilometre (450/sq mi). Its population growth rate over the decade 2001-2011 was 17.27%. Shahdol has a sex ratio of 968 females for every 1000 males, and a literacy rate of 68.36%.

Languages

Vemaculars spoken in Shahdol include Bagheli, which has a lexical similarity of 72-91% with Hindi (compared to 60% for German and English) and is spoken by about 7,800,000 people in Bagelkhand.

<u>CHAPTER - 8</u> LAND UTILIZATION PATTERN IN THE DISTRICT

S. No.	LAND USE	AREA in (Sq. Km.)
1	Forest Land	2278.85
2	Net Area Sown	1899.96
3	Cultivable Area	425.61
4	Mining Area	103.41

Agriculture

Paddy, Kodo, Kutko and Maize are the crops of the district. Til, Mustard and Groundnut are the main oilseeds produced here. The farmers have started the production of Sunflowers and Soyabean. In the central and southern part of the district, paddy is the main Crop grown and in the North-West Wheat is the main crop grown.

Sr. No.	Particulars	Area (Hects.)	
1	Total Area	561006	
2	Net Sown Area	221101	
3	Canal Irrigation Area	18296	
4	Tubewell Irrigation Area	17158	
5	Total Area Irrigation other	31676	
6	Total Area Irrigation	67130	

CROP PRODUCTION(2019-2020)							
Sr. No.	Crop Name	Area (hect)	Yield/Hect.	Production in 000' MT			
1	Rice	154234	3380	521311			
2	Wheat	64771	22.00	142496			
3	Oil Seeds	14815	789	11689			
4	Pulse	6643	1639	10888			

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Assessment Authority, M.P.

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FARM EQUIPMENTS

The figures of farm equipments existing are as given below:-

S. No	Equipment	Nos.
1.	Seed Dril	178
2.	M.B.Plough	112
3.	Breeder	4800
4.	Low Lift Water Device	1350
5.	Maize Shelter	7882
6.	Others	2115

DISTRIBUTION OF LAND HOLDINGS

The distribution of land is as given below:-

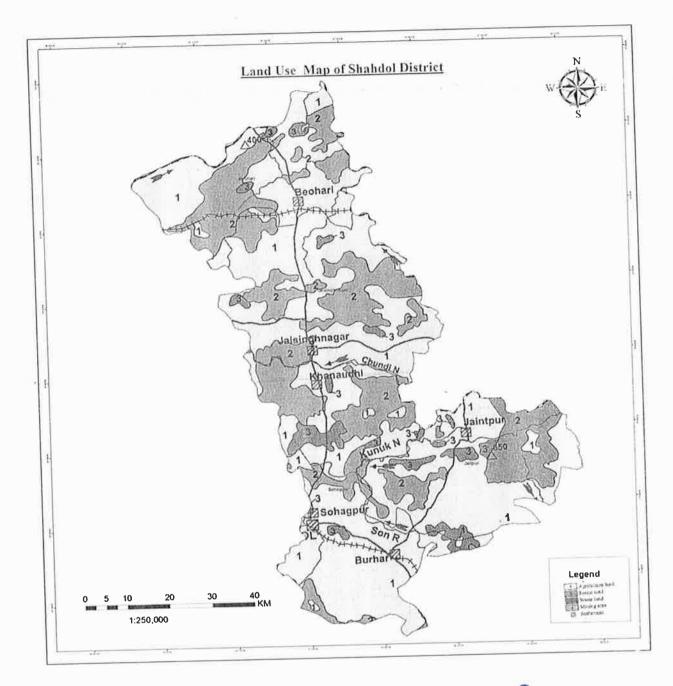
S. No	Size of Holding	Nos.
1	Less than 1 hectare	110424
2	Between 1 to 2 hectares	34806
3	Between 2 to 4 Hectares	23424
4	Between 4 to 10 hectares	6258
5	10 Hectares & above	491
	Total	175403

Irrigation Facilities:

Since this district is mountaineous, irrigation facility is not satisfactory. Only 9% of the total crop gets irrigation facility.

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CHAPTER - 9

PHYSIOGRAPHY OF THE DISTRICT

Shahdol district is situated in the eastern part of Madhya Pradesh and covers an area of 14,028 sq. km. It is covered in Survey of India Degree sheet Nos. 63D, H, 64A and E between Latitude 23° 03'-24°20' and Longitude 80°58'-81°58". The district is bounded by Satna and Rewa district in north, Dindori and Bilaspur district in south, Koriya district in east, and umria district in west and Sidhi district in north east. Shahdol is the district headquarters and Sohag'pur, Beohari, Umariya, Rajendragram, Anupur and Jaisinghnagar are some of the major towns. The Katni Bilaspur section of the southeastem railway throuh the district. All important places within the district are well connected by a network of state highways and all weather roads, The Son River and its tributaries drain central part of the district. Narmada and Johilla rivers originate from Amarkantak (1065mtr)

Physicgraphically, structural landforms represented by plateau, hills and valleys have developed in northem, northeastern and northwestern part of the district. Low lying plains with average altitude of 450m to 500m above MSL are developed in southeastern part, where as high to medium level (500m to 990m) plateau and flat loped, step like terraces are developed in southern and southwestem pan of the district. Denudational hills and Valleys are present in Central part of the Disnict. Fluvial Land Forms represented by flood plains are present along the Westem boundary of the district. The maximum and minimum elevation of the area are 1070m and 356m above mean sea level in southern part of Satpura hills and 5 km. southeast of Dhanwahi respectively.

Rock Formations ranging in age form Archaeans to Holocene period are exposed in Shahdol district the older metamorphic rocks comprising Granite gneisses as well as massive granite are exposed in southeastem, western and to a small extent in west southern part of the district. The ENE WSW trending volcano sedimentary sequences of Mahakoshal Group of Palaeoproterozoic age consisting metasediments, crystalline limestone, phyllites, quartzite, BHQ, marble, dolomite, tufts and ash beds are exposed in northern side. Dolerite, pegmatite, granite and vein quartz have intruded these rocks. The dykes exhibit a predominant ENE-WSW trend. Jungel Group of Mesooproterozoic age unconfomably overlies the Mahakosal Group of rocks, consisting of sandstone and conglomerate occur as small thin bands in the northern part of the district. VindhyanSUpergroup represented by the Semri and Bhander Groups consist of conglomerate, quartzite, Deonarporcellanite, Palkawan shale, limestone, glauconitic bed, olive shale and Bhander shale. Seniri group is mainly exposed in northern part and Bhander shale is exposed as small belt in east central part of the northern side. Talchir Groupe offocks comprising

diamictiferous, well-sorted sandstone, and olive green shale with basal conglomerate are exposed in southeastern and western part of the district. Barakar Formation conformably overlies the Talchir Formation and comprises yellowish to greyish white felspathic sandstone with carbonaceous grey shale including several coal seams. This rock type is exposed in the central, east central and west central pan of the district. Most part of the district is covered by unclassified Gondwana rocks, which are characterised by femtginised, pinkish to yellowish white, cross-bedded sandstone, greyish shale, green, red fossiliferous clay with basal pebbly conglomerate Lameta beds occur along the fringes of the Deccan Trap covered bills in southwestern part of the district. They rest unconformably over the Gondwana strata consisting of greenish and reddish felspathic sandstone with cherty limestone. Deccan Trap basalt of Cretaceous to Palaeogene age is exposed in southeastern and cmtral part. Dykes and sills of dolerite are common in the area trending ENE WSW to east west. The development of lateritic profile due to weathering of the trap rocks in the southern part resulted in the fonnation of bauxite bodies. Quaternary sediments comprising unconsolidated sand, clay and gravel exposed in the small portion of western and northwestern part of district.

The area presents a complex structural history with a number of assymmetrical folds, faults and fractures including probably a thrust affecting all rock formations. In the Gondwana Coal measure, the preservation of the coal as well as associated sediments is mainly due to the trough faulting Enechelon type of boundary faults between Gondwana and Precambrian rocks are noticed in the coalfields. The prominent structural feature of the Sohagpurbasin is the system of ENE WSW to EW trending sub parallel faults.

The economic minerals occurring in the district are bauxite, coal, clay, dolomite, felspar, gypsum, iron, phosphate and dimensional stone such as granite, marble, sandstone and basalt. Coal is being mined form Sohagpur coal field, UmariyaJohillaKorar coalfield and part of Singrauli coal field. Bauxite mainly occurs in southern pan of the district. Fire clay occurs at Bhamrah, Paperthi, Parsili and Dala. Dolomite occurs at Dalbajtal and Man. Gypsum occurs as veins in Intertrappen and Semri Group of rocks. Iron ore is reported form Hirapur, Deari, Chandaula, Anwae and Dawara. Granite, basalt and sandstone, are extensively quarried as aggregate and blocks for construction purpose.

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E.S. Arcia Colony, Dhopal (M.P.)

CHAPTER - 10

RAINFALL MONTH WISE

Shahdol district experiences a temperate climate characterized by a hot summer, well distributed rainfall during the south-west monsoon season and mild winter. The winter season commences from December and lasts till the end of February followed by the summer from March to middle of June. The south-west monsoon or rainy season continues from middle of June to September when south west monsoon is active while October and November months constitute post- monsoon or retreating monsoon season. The climate of Shahdol District, as calculated by Thornthwaite Precipitation Effectiveness Method, is humid climate with forest type vegetation.

The month of May is the hottest month with mean daily maximum temperature at 41.4°C and mean daily minimum temperature at 26.5°C. With the onset of south-west monsoon during June, there is an appreciable drop in day temperature, while at the end of the September or in early October, there is slight increase in day temperature but nights become progressively cooler. January is generally the coolest month with the mean daily maximum temperature at 25.6°C and the mean daily minimum temperature at 8.4°C. The average daily maximum temperature is about 41.4°C and minimum temperature is about 26.5°C. During the southwest monsoon season the relative humidity generally exceeds 88% (August month). In rest of the year is drier. The driest part of the year is the summer season, when relative humidity is less than 38%. April is the driest month of the year. The wind velocity is higher during the premonsoon period as compared to post monsoon period. The maximum wind velocity of 6.8 km/hr is observed during the month of June and minimum 2.3 km/hr during the month of December. The average normal annual wind velocity of Shahdol district is 4.3 km/hr.

The normal rainfall of Shahdol district is 1131.4 mm.

As per rainfall statistics, frequency of occurrence of Normal drought in the area is 25 % and that of Mild drought is also 25 % while occurrence of severe droughts in the area is only 5 % i.e. on an average there is a possibility of occurrence of a nonnal or mild drought once in every seven years, while that of severe draughts is once in every 20 years. The area does not experience any most severe drought.

RAINFALL MONTH WISE 2019 & 2020

١	ear 2019		Year 2020			
Month	Total Avrage		Month	Total	Avrage	
January	39.00	6.5	January	176.00	29.3	
February	76.00	12.7	February	188.00	31.3	
March	82.00	13.7	March	494.00	82.3	
April	49.00	8.2	April	137.00	22.8	
May	31.0	5.2	May	145.00	24.2	
June	158.0	26.3	June	1253.00	208.8	
July	1646.00	274.3	July	1465.00	209.3	
August	2479.00	413.2	August	2637.5	376.8	
September	1908.00	318.0	September	911.5	130.2	
October	121.00	20.2	October	393.0	56.1	
November	0.00	0.00	November	21.0	3.0	
December	191.00	31.8	December	0.00	0.00	
Total	6780.00	1130.1	Total	7821.00	1174.1	

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RAINFALL MONTH WISE 2021 & 2022

Year 2022

257

89.5

0

Total

Average

36.7

12.8

0

Ye	ar 2021		(6)
Month	Total	Average	Month
January	0	0	January
February	70	0	February
March	19	2.7	March
April	26.5	3.8	
May	677.5	96.8	
June	1612.0	230.3	
July	1861.5	265.9	
August	1991	284.4	
September	1248.5	178.4	
October	170	24.3	
November	0	0	
December	119	17	
Total	7795	1103.6	

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Assessment Authority, M.P.

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CHAPTER-11

GEOLOGY AND MINNERAL WELTH

General Geological Succession

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The Shahdol District is located in the north-eastern part of the Deccan Plateau. It lies at the trijunction of Maikal Ranges of the Satpura Mountain, the foot of the Kymore Range of the Vindhya Mountain. In between these hill ranges lies the narrow valley of the Son and its tributaries.

Physiographically, structural landforms, represented by plateau and low lying plains with average altitude of 450m to 500m above MSL, are developed in northern, north-eastern and north-western and central parts of the district. In the southern part of the District, hills and highlands of Maikal Range and high to medium level (500m to 990m) plateau and flat topped, step like terraces are developed. Fluvial Land Forms represented by flood plains are present along the western boundary of the district. The maximum elevation of the area is 1123m above mean sea level at Singingarh Hill (23°03'40" • 81°27 '37") in Satpura hills, in southern part of the district. The important tributaries of Son River in the district are Johila, Gujar Kewai and Tipan rivers. The primary occupation of the majority of the population in the district is agriculture and allied activities. On one side the spectrum of its floristic sociocultural diversity and ethnic history of tribal.

The stratigraphic sequence of various geological units with their respective rock types are described below.

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Assessment Authority, M.P.

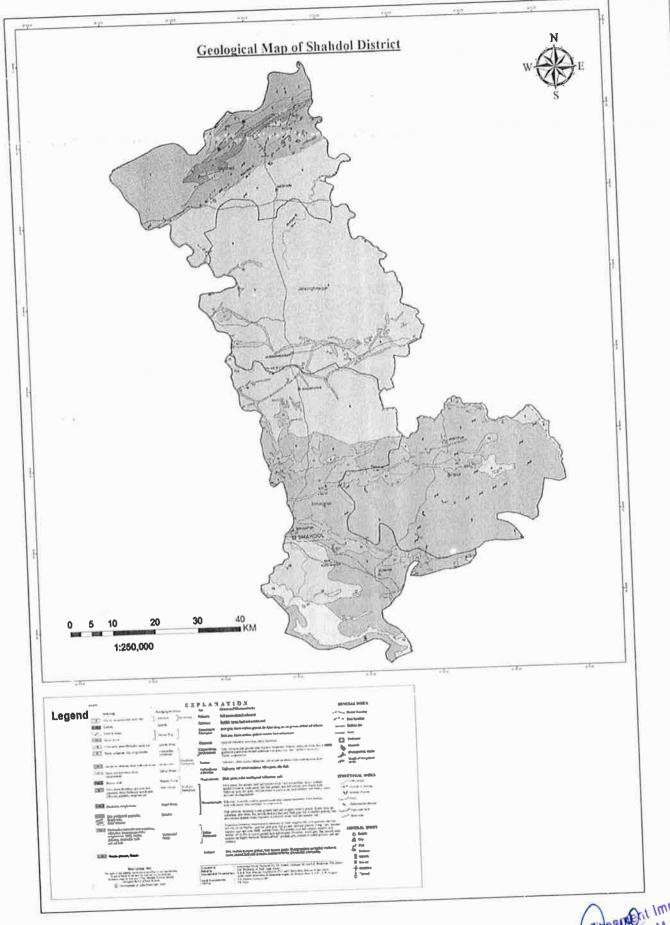
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E-5, Arera Colony, Bhopal (M.P.)

AGE	LITHOSTRATIGRAPHIC UNIT	LITHOLOGY	
Recent to sub recent	Alluvium, Laterite	Sandy loam, silty sand, coarse medium laterite	
Cretaceous to Eocene	Deccan Trap	Basaltic lava flows and older dolerite dykes and sills.	
Upper Cretaceous	Lameta	Sandstone, siliceous limestone, marl and Shales.	
Lower Cretaceous	Chandia	White clays and medium grained sandstone	
LateNorian to Rhaetic		Coarse-grained sandstone variegated shale and lilac coloured clays.	
Upper Permain toLarnic	Parsora Gondwana Supergroup Tihki Pali	Coarse grained sandstone grey shale, red shale, red green and mottled clay with thin coal bands	
Late Permain	Barakar	Sand stone, Shale sand Coal seams	
Upper Carboniferous to Loer Permain	Talchir	Tillite, sandstone and green shale	
Pre-Cambrian	Lower Vindhyan (Semri series)	Porcellanite shales sandstone basal conglomerates	
	Bijawar	Quartzes, Gneisses	
Algonkian	Archaean	Granite, Gneisses, Schists etc.	

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F.5. Arera Colony

<u>Mineral resources</u> – District Shahdol is very rich in its mineral resources. Minerals found in district are coal, fire clay, ochers, Iron, Laterrite and marble. Sohagpur Coalfield contributes a major part in the revenue of the state. A brief description of the various occurrences is given below:

Coal: Coal is a combustible black or brownish-black sedimentary rock, formed as rock strata called coal seams. Coal is mostly carbon with variable amounts of other elements, chiefly hydrogen, sulfur, oxygen, and nitrogen. Coal is formed when dead plant matter decays into peat and is converted into coal by the heat and pressure of deep burial over millions of years. Vast deposits of coal originate in former wetlands—called coal forests—that covered much of the Earth's tropical land areas during the late Carboniferous (Pennsylvanian) and Permian times. However, many significant coal deposits are younger than this and originate from the Mesozoic and Cenozoic eras.

Coal is primarily used as a fuel. While coal has been known and used for thousands of years, its usage was limited until the Industrial Revolution. With the invention of the steam engine, coal consumption increased. In 2020 coal supplied about a quarter of the world's primary energy and over a third of its electricity. Some iron and steel making and other industrial processes burn coal. The extraction and use of coal causes premature deaths and illness. The use of coal damages the environment, and it is the largest anthropogenic source of carbon dioxide contributing to climate change. 14 billion tonnes of carbon dioxide was emitted by burning coal in 2020, which is 40% of the total fossil fuel emissions and over 25% of total global greenhouse gas emissions. As part of the worldwide energy transition many countries have reduced or eliminated their use of coal power. The UN Secretary General asked governments to stop building new coal plants by 2020. Global coal use peaked in 2013. To meet the Paris Agreement target of keeping global warming to below 2 °C (3.6 °F) coal use needs to halve from 2020 to 2030, and phasing down coal was agreed in the Glasgow Climate Pact.

The largest consumer and importer of coal in 2020 was China. China accounts for almost half the world's annual coal production, followed by India with about a tenth. Indonesia and Australia export the most, followed by Russia.

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The important coal field in the District is Sohagpur coal field. The Barakars in this area are about 3100 km2 four coal seams have been recorded from the lower Barakars whereas a few thin seams are reported from Upper Barakars. The Lower Barakar coal of lower ash content and better quality as compared to that from Upper Barakars. In general the coal is of low rank, high

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moisture, high volatiles and non-coking type. A reserve of 4064 million tonnes has been estimated from this field.

<u>Coal Bed Methane (CBM) Gas:</u> Coal bed methane (CBM), an important unconventional gas occurring naturally in coal beds, is increasingly being used for industrial and utility purposes.

The gas is formed during the natural conversion of plant material into coal, known as coalification. When coalification occurs, the coal becomes saturated with water and methane gas is trapped within it. CBM can be recovered from coal deposits and seams through drilling and extraction.

The composition of CBM in a sample of coal varies widely across several locations in the country. Generally, it consists predominantly of methane gas (CH_4) although it can contain trace amounts of ethane (C_2H_6) , carbon dioxide (CO_2) and water (H_2O) .

To carry out CBM production, a steel-cased hole is drilled into the coal seam and the underground (produced) water is pumped out through tubing. Removal of produced water helps reduce the hydrostatic pressure within the coal bed, causing the gas to be desorbed from its surface.

As production occurs, the change in pressure alters the porosity and permeability of the coal bed. The recovered gas is sent into a natural gas pipeline or air compressor system.

The current source of gas is the Coal Bed Methane (CBM) blocks at Sohagpur East (SP-E) and Sohagpur West (SP-W) located at Shahdol. RIL has been awarded the Coal Bed Methane (CBM) blocks located in Shahdol and Annupur districts of Madhya Pradesh state of India. CBM plateau production from these blocks is expected to be around 3.5 mmscmd. The coal bed methane (CBM) block at Sohagpur is estimated to have 3.75 trillion cubic feet of in-place gas reserves under coal stairs.

Iron & Laterite: Iron & Laterite deposits occur near Budwa, Paparedi, Bagdari, Hathwar, Anhara, Deori in Beohari Tehsil.

Iron ores are rocks and minerals from which metallic iron can be economically extracted. The ores are usually rich in iron oxides and vary in color from dark grey, bright yellow, or deep purple to rusty red. The iron is usually found in the form of magnetite (Fe 3O4, 72.4% Fe), hematite (Fe2O3, 69.9% Fe), goethite (FeO(OH), 62.9% Fe), limonite (FeO(OH) n(H2O), 55% Fe) or siderite (FeCO3, 48.2% Fe).

Ores containing very high quantities of hematite or magnetite (greater than about 60% iron) are known as "natural ore" or "direct shipping ore", meaning they can be fed directly into iron-making blast furnaces. Iron ore is the raw material used to make pig iron, which is one of the main State Level Environment Impact.

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raw materials to make steel—98% of the mined iron ore is used to make steel. In 2011 the Financial Times quoted Christopher La Femina, mining analyst at Barclays Capital, saying that iron ore is "more integral to the global economy than any other commodity, except perhaps oil".

Magnetite:

Magnetite is magnetic, and hence easily separated from the gangue minerals and capable of producing a high-grade concentrate with very low levels of impurities.

The grain size of the magnetite and its degree of commingling with the silica groundmass determine the grind size to which the rock must be comminuted to enable efficient magnetic separation to provide a high purity magnetite concentrate. This determines the energy inputs required to run a milling operation.

Mining of banded iron formations involves coarse crushing and screening, followed by rough crushing and fine grinding to comminute the ore to the point where the crystallized magnetite and quartz are fine enough that the quartz is left behind when the resultant powder is passed under a magnetic separator.

Generally most magnetite banded iron formation deposits must be ground to between 32 and 45 micrometers in order to produce a low-silica magnetite concentrate. Magnetite concentrate grades are generally in excess of 70% iron by weight and usually are low phosphorus, low aluminium, low titanium and low silica and demand a premium price.

Hematite:

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Due to the high density of hematite relative to associated silicate gangue, hematite beneficiation usually involves a combination of beneficiation techniques.

One method relies on passing the finely crushed ore over a slurry containing magnetite or other agent such as ferrosilicon which increases its density. When the density of the slurry is properly calibrated, the hematite will sink and the silicate mineral fragments will float and can be removed. According to the US Geological Survey's 2021 Report on iron ore, India is estimated to produce a whopping 59 million tons of iron ore in 2020 (2019: 52 million tons), placing it as the eighth largest global centre of iron ore production, behind Australia, Brazil, China, India, Russia and South Africa and Ukraine.

Laterite: Laterite is both a soil and a rock type rich in iron and aluminium and is commonly considered to have formed in hot and wet tropical areas. Nearly all laterites are of rusty-red coloration, because of high iron oxide content. They develop by intensive and

State Level Environment Impact

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Particle Property A.P.

prolonged weathering of the underlying parent rock, usually when there are conditions of high temperatures and heavy rainfall with alternate wet and dry periods. Tropical weathering (laterization) is a prolonged process of chemical weathering which produces a wide variety in the thickness, grade, chemistry and ore mineralogy of the resulting soils. The majority of the land area containing laterites is between the tropics of Cancer and Capricorn.

Laterite has commonly been referred to as a soil type as well as being a rock type. This and further variation in the modes of conceptualizing about laterite (e.g. also as a complete weathering profile or theory about weathering) has led to calls for the term to be abandoned altogether. At least a few researchers specializing in regolith development have considered that hopeless confusion has evolved around the name. Material that looks highly similar to the Indian laterite occurs abundantly worldwide.

Historically, laterite was cut into brick-like shapes and used in monument-building. After 1000 CE, construction at Angkor Wat and other Southeast Asian sites changed to rectangular temple enclosures made of laterite, brick, and stone. Since the mid-1970s, some trial sections of bituminous-surfaced, low-volume roads have used laterite in place of stone as a base course. Thick laterite layers are porous and slightly permeable, so the layers can function as aquifers in rural areas. Locally available laterites have been used in an acid solution, followed by precipitation to remove phosphorus and heavy metals at sewage-treatment facilities. Laterite is mottled red or brown coloured scoriaceous rock with a vermicular structure near the surface. It is found as a capping over a large variety of rocks in areas subject to the tropical monsoonal and sub-tropical regime of climate. Desilication of preexisting sandstone is more possible explanation for laterite formation. It is essentially a mixture of the hydrates of aluminium and Iron. As Quarried, it is usually soft and can be stressed easily but when it is exposed to the air it hardens quickly. There is no well-defined strike and dip. The mineralisation follows the topography. The bulk density is 2.8. The Iron Oxide varies from 40 to 50% while Silica is around 15%.

Clay: Good black clay deposits occur near Jamuni and Hinota.

Ochers: Ochre is residual product derived from sandstone resulting due to chemical weathering of Shale sandstone sequence. Leaching and concentration controlled by water table fluctuation on one hand and the inherent permeability of the parent rock on other hand, appears to be responsible for the formation of Ochre/Clay deposit in the applied area. The Ochre is formed due to

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Paryayaran Parisar

F-5, Argon

enrichment of ferric oxide in sandstone having leaching action by water. The insoluble constituents like silica are removed by the constant flow of water leaving behind the soluble iron oxide in form of ochre bed. The hydrous iron oxide imparts yellow colour and the anhydrous iron oxide imparting red colour. The ochre and clay is found towards central portion on mound. The average thickness is 0.8m and is of low grade. The bulk density is of 1.5. The Ochre/Clay is not economical to be mined and is not marketable due to its grade.

Ocher is a natural clay earth pigment, a mixture of ferric oxide and varying amounts of clay and sand. It ranges in colour from yellow to deep orange or brown. It is also the name of the colours produced by this pigment, especially a light brownish-yellow. A variant of ochre containing a large amount of hematite, or dehydrated iron oxide, has a reddish tint known as "red ochre" Ochre is a family of earth pigments, which includes yellow ochre, red ochre, purple ochre, sienna, and umber. The major ingredient of all the ochres is iron oxide-hydroxide, known as limonite, which gives them a yellow colour.

- Yellow ochre, FeO(OH)·nH2O, is a hydrated iron hydroxide (limonite) also called gold ochre.
- Red ochre, Fo2O3, takes its reddish colour from the mineral hematite, which is an anhydrous iron oxide.
- Purple ochre is identical to red ochre chemically but of a different hue caused by different light diffraction properties associated with a greater average particle size.
- Brown ochre, also FeO(OH), (goethite), is a partly hydrated iron oxide.
- Sienna contains both limonite and a small amount of manganese oxide (less than 5%), which makes it darker than ochre.
- Umber pigments contain a larger proportion of manganese (5-20%), which makes them a dark brown.[5]

When natural sienna and umber pigments are heated, they are dehydrated and some of the limonite is transformed into hematite, giving them more reddish colours, called burnt sienna and burnt umber. Ochres are non-toxic and can be used to make an oil paint that dries quickly and covers surfaces thoroughly. Modern ochre pigments often are made using synthetic iron oxide. Pigments which use natural ochre pigments indicate it with the name PY-43 (Pigment yellow 43) on the label, following the Colour Index International system. Ochers deposit in the Shahdol district is reported from pachdi.

Marble: Marble deposits are found near villages Pasgarhi, Bagdari and Paparedi. Details of the deposit to be under search in these areas.

Parisar 1-5, Arera C. W. Bropal (M.P.) Other Minerals like Flagstone, Slate, Dolerite, Molybdenum, River Sand etc are also found in huge quantity in the district.

During monsoon this bed replenished to a large extend from the Barakar Sandstones, Talchir Stones, etc. of Gondwana Group rock formation due to erosion by heavy flow in higher reach and as soon as the stream reaches in older channel downward, shed their loads in river banks due to decrease in velocity and carrying capacity. The annual deposition of 3-3.5 meters is received. The area will be maintained as it is after monsoon season.

STONE (GITTI): Stone (Gitti) is made up of basalt, dolerite etc. which is hard and compact and fractured (which is not suitable for making Flag or blocks), Any other type of rocks which is hard and compact in nature which will be used as road metal, house building material etc. Murum: Murum is the crumbly rock, broken or crushed stones, gravel of humid tropical or equatorial zones. It is characterised by the deep weathered layer fom which silica has been leached. Thus, there is no humus, but an accumulation of aluminium and iron oxides and hydroxides. These soils are reddish in color & is imparted by the iron compounds. For building huts and paths, they are good materials, as it can be compacted easily to form hard surfaces. Murum soil comes under laterite soil. Laterite is a soil and a rock type rich in iron and aluminium.

The approximate density of murrum soil is 1.8 gm/cc.

Murum soil is also referred as being a rock type but it is not a rock.

Murum is also a type of soil, mostly used for construction purposes. Generally, it is deep brown or red in color. Murum is used in plinth filling, road pavements, backfilling in trenches, footing pits, etc. It is a suitable type of soil in the construction field, since it does not contain any organic matters and can be compacted easily forming hard surfaces.

- 1. Son River: The river Son flows due north till the northern extent of the district, marking the western boundary of the dist Hct Shahdol with Umaria District. Thereafter, the river Son flows due east and marks the northern boundary of Shahdol district with Satna district. The important tributaries of the Son River are the Kunaknadi and the Chuwadinadi. The river son draining the south eastern parts of the district through its important tributaries like Tipan, Chandas and Bakan flow in the north-west direction with a dendritic pattern, draining the central plains of the district.
- 2. River Banas: Banas River flowing along the eastern boundary of the district, marking the boundary of the district Shahdol with Sidhi District. The north-western part of the district is drained by the Banas River and its tributaries namely the Jhanapar River, Kormarnadi, the Rampanadi, and the OdariNadi. Banas River confluences with the Son River at the northernmost tip of Shahdol. State Level Environment

CHAPTER - 12

DRAINAGE AND IRRIGATION PATTERN:

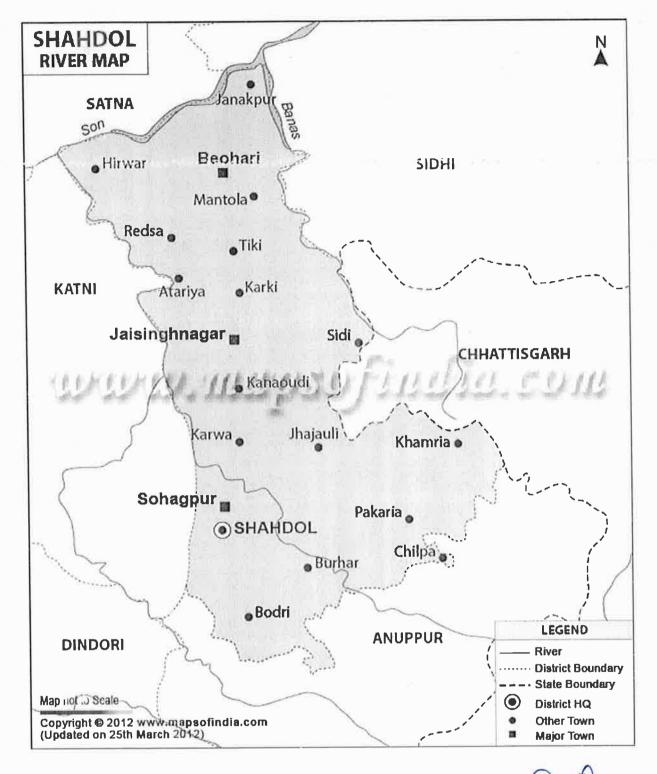
Drainage Pattern:

The entire district is drained by Son River and its tributaries. Thus the area falls in the Ganga Basin. The river Son flows due north till the northern extent of the district, marking the western boundary of the district Shahdol with Umaria District. Thereafter, the river Son flows due east and marks the northern boundary of Shahdol district with Satna district. The important tributaries of the Son river are the Kunak nadi and the Chuwadi nadi. The river son draining the south eastern parts of the district through its important tributaries like Tipan, Chandas and Bakan flow in the north-west direction with a dendritic pattern, draining the central plains of the district. Another important tributary of the Son River is the Banas River, flowing along the eastern boundary of the district, marking the boundary of the district Shahdol with Sidhi District. The north-western part of the district is drained by the Banas River and its tributaries namely the Jhanapar River, Kormar nadi, the Rampa nadi, and the Odari Nadi. Banas River confluences with the Son River at the northernmost tip of Shahdol District.

IRRIGATION

Bansagar is a multipurpose river valley project on Son River situated in Ganga Basin in Madhya Pradesh, envisaging both irrigation and hydroelectric power generation. The Bansagar Dam across Son River is constructed at village Deolond in Shahdol district on Rewa -- Shahdol road. However, irrigation through this Project will benefit only a small area in the north of the District. Shahdol district still has poor irrigation facility. Only 9% of the total crop gets irrigation facility. Tribals of the district prefer the cultivation in the old traditional method and depend mainly on rain. The area irrigated by canals, tubewells, dugwells and tanks are tabulated below in Table below-

IRRIGATIO	N BY DIFFERENT SOURCES		
	Number of Structures	Area (sq km)	
Dugwells	2470	37.98	
Tube wells/Bore wells	513	13	
Tanks/Ponds	457	24	
Canals	76	44	Marie
Other Sources		89.0 State	ever Environment Impec
Gross Irrigated Area		208	(EPCO)
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CHAPTER - 13

SURFACE WATER AND GROUND WATER SCENARIO OF THE DISTRICT:

Ground Water:

Central Ground Water Board has carried out extensive field work in the district of Shahdol to provide scientific base to understand the dynamic system of ground water in the region. Systematic hydrogeological surveys were carried out in the district during the year 1987-88 by Sh. R.N. Sharma and Sh.A.K.Budhauliya, then Junior Hydrogeologists and Sh. A.K.Jain, Sh. M.L.Parmar, Sh. M.V.Gopal and Sh. I.Javid Ali, then Assistant Hydrogeologists. Detailed hydrogeological work was carried out in the District under Technology Mission Programme for drinking water during the period 1988 to 1991 by Sh. R.N. Sharma, then Junior Hydrogeologist and Sh. I.Javid Ali, Sh. A.Srinivas and Sh. R.M.Verma, then Assistant Hydrogeologists. Re-appraisal Hydrogeological Surveys of the area was carried out by Shri A.K.Jain, Junior Hydrogeologist during year 1998-99. CGWB had carried out regular Groundwater Exploration in the district during the period 1988-93 and a total of 16exploratory wells were drilled at various places in different geological formations of the district.

Groundwater Exploration through deep drilling was carried out by deploying four direct rotary rigs to drill through semi consolidated Gondwana sediments. Central Ground Water Board carried out exploratory drilling programme in the area between 1990 and 1994 and during this period 16 exploratory wells and 7 observation wells were constructed. 4 number of piezometers were drilled in Shahdol district under Hydrology Project for water level monitoring purpose. The details of piezometers are given in table 4. Exploration revealed occurrence of potential aquifer within Lameta formation. The Gondwana formations - the clay and mudstone facies of Tihiki stage overlying the arenaceous facies of Pali beds have an aquifer system of moderate to high yield potential in Beohari Block. The yields range from 6 to 10 lps with average drowdown of 12 to 15 m over static water level (which vary from 6 to 7.5 m.bgl). However exploratory well at Bhejari site was abandoned due to insignificant yield. The Upper Barakar Sandstone of Gondwana Super Group has a positive piezometric head and at many places, auto-flowing condition occur, e.g. in Churmura (Shallow), Churmura (Deep) and Gohparu exploratory tubewells. The Upper Barakar Sandstone are devoid of coal seams while Middle and Lower Barakars have a number of coal seams occuring at different depths, from surface exposures to 150 m.bgl. The well at Gohparu was auto flowing, but its yield was meagre. Well at Churmura confirmed a three aquifer system, out of the middle aquifer (80 – 160 m.bgl) and third aquifer (deeper 210 – 240 mbgl) showed auto-flowing condition with piezometric head of 3.3 m agl and 5 m agl respectively with free flow discharge of 3 lps. At Bijha site, very shallow water level of 0.19 m bgl was recorded with a discharge of 3.4 lps.

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Table shows Hydrogeological Details of Piezometers drilled in Shahdol district.

S.N	Name of site	Depth (m)	Aquifer	SWL	Yield (lpm)	E.C. (µS/cm)	Aquifer
		=14	zones	тьтр		365	Barakar
1	Burhar-D 23°13'30" 81°31'28"	58.15	12.6-17.8 50.0-52.0	22.0	4.2	303	Sandstone
2	Burhar-S 23°13'30" 81°31'28	30.69	12.6-17.8	9.8	4.2	570	Barakar Sandstone
3	Jaisinghnagar-D 23°40'42" 81°23'48"	46.48	32.0-35.0	1.58	1.25	166	Upper Gondwana Sandstone
4	Shahdol-D 23°17'55" 81°21'35"	61.77	37.5-38.5 46.0-50.1	9.75	0.5	466	Gondwana Sandstone

The groundwater resources of the District are under-developed and under-utilised. 513 tubewells and 2470dugwells facilitate to irrigate an area of 50.98 sq.km. of agricultural land as against 2714.12 sq.km cultivable area and 2313 sq.km of net sown area in the district. The net groundwater availability of the district is 639.09 MCM while gross annual groundwater draft in the district is only 43.43 MCM. The stage of ground water development of the district is only 6%. Shahdol comes under safe category from ground water development point of view. Net Groundwater Availability for future irrigation development is 590.97 MCM. There is ample scope for development of groundwater for irrigation, industrial and domestic purposes.

Block wise Ground Water Resources Estimation Data of Shahdol District, Madhya Pradesh

District/ Assessment Unit	Sub-unit Command/ Non- Command/	Net Annual Ground water Availability (ham)	Existing Gross Ground water Draft for Irrigation (ham)	Existing Gross Ground water Draft for Domestic & Industrial water Supply (ham)	Existing Gross Ground water Draft for All uses (11+12) (ham)	Provision for domestic, and industrial requirement supply to next 25 year (2033) (ham)	Net Ground water Availability for future irrigation d development (ham)	Stage of Ground water Developm ent {(13/10)*1 00} (%)
	Command						5050	14
Beohari	Non- Command	8154	786	385	1172	407	6960	

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	District Total	63909	2233	1850	4083	2610	59067	38
Sohagpur	Block Total	8038	377	529	906	895	6766	11
	Non- Command	8038	377	529	906	895	6766	11
Jaisinghna gar	Command							
	Block Total	18791	844	394	1220	577	17370	7
	Non- Command	18791	844	394	1238	577	17370	7
Gohparu	Command							
	Block Total	11982	108	233	340	359	11516	3
	Non- Command	11982	108	233	340	359	11516	3
Burhar	Command							
	Block Total	16944	118	309	427	371	16455	3
	Non- Command	16944	118	309	427	371	16455	3
	Command		1					
	Block Total	8154	786	385	1172	407	6960	14

Ground Water Quality

In order of determine the Chemical Quality of ground water to assess the suitability for agriculture and drinking purposes, a total number of 19 water samples from phreatic aquifer were collected.

Quality of Ground Water for Drinking Purpose

The quality of ground water in district is being assessed by the analysis of groundwater samples from 19 number of hydrograph stations collected during May,2011 .The analysis of water samples for year 2011 indicate that The electrical conductivity (EC) values indicative of total dissolved solids in groundwater were found to be in the range of 175 and 1440 μs /cm at 250C. Temporary Hardness of water can be removed by boiling. However, shallow ground water is vulnerable to contamination from different sources. Nitrate concentration ranges between to 34ppm. The studypact DE Authority, M.P.

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of analyzed data shows that Shahdol district does not have any problem of fluoride since all the wells have fluoride less than 1.5 ppm of BIS (1990) permissible limit and ranges between 0.05-0.69ppm. In general, groundwater in phreatic aquifer is fresh and fall in classification of good category for drinking purpose.

Quality of Ground Water for Irrigation Purposes

The chemical quality of groundwater is an important factor to be considered in evaluating its suitability for irrigation purpose. The parameters such as EC, Sodium Absorption Ratio (SAR), percent sodium (% Na) and Residual Sodium Carbonate (RSC) are used to classify the water quality for irrigation purpose. US Salinity Laboratory suggested a diagram of classifying waters for irrigation purposes in 1954. It is clear that more than 82% groundwater samples from the district fall under C2-S1 class (medium salinity and low sodium) which means that these waters can be used for all type of crops on soils of low to high permeability, without causing problem of salinity. The groundwaters representing the wells of Singhpur, Gohparu and Beohari are grouped under C3-S1 (high salinity and low sodium) class, indicating that groundwater from these areas can be used for irrigation purposes on well drained soils or used for salt tolerant crops like groundnut, safflower etc.

Surface Water

The District is located in the north-eastern part of the Deccan Plateau. It lies at the trijunction of Maikal Ranges of the Satpura Mountain, the foot of the Kaimur Range of the Vindhyan Mountain. In between these hill ranges lies the narrow valley of the Son and its tributaries.

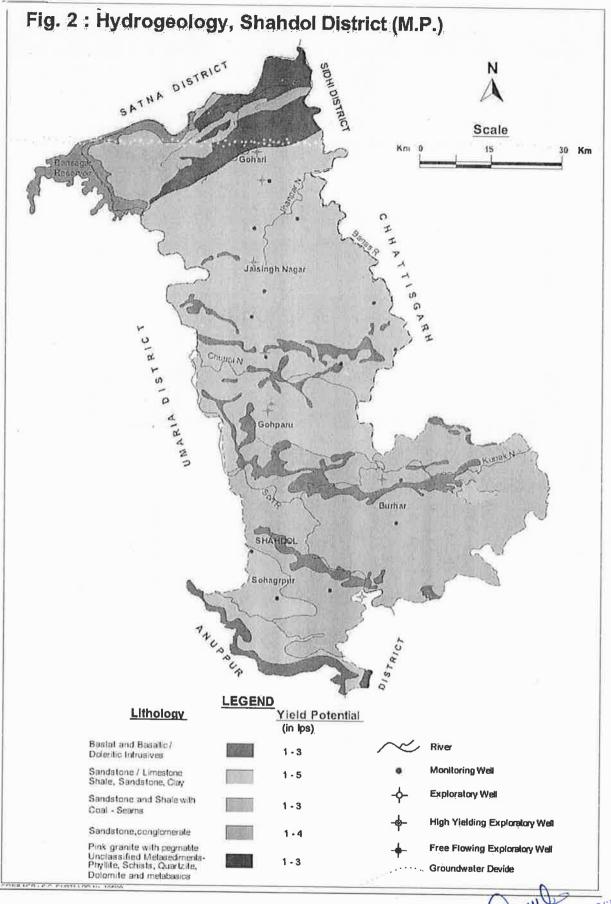
Physiographically, structural landforms, represented by plateau and low lying plains with average altitude of 450m to 500m above MSL, are developed in northern, northeastern and northwestern and central parts of the district. In the southern part of the District, hills and highlands of Maikal Range and high to medium level (500m to 990m) plateau and flat topped, step like terraces are developed. Fluvial Land Forms represented by flood plains are present along the western boundary of the district. The maximum elevation of the area is 1123m above mean sea level at Singingarh Hill (23°03'40": 81°27'37") in Satpura hills, in southern part of the district.

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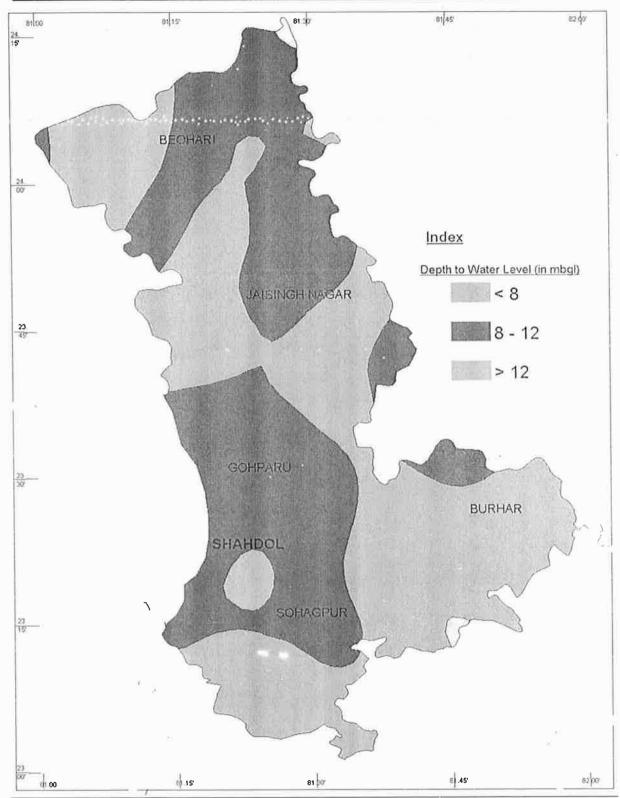
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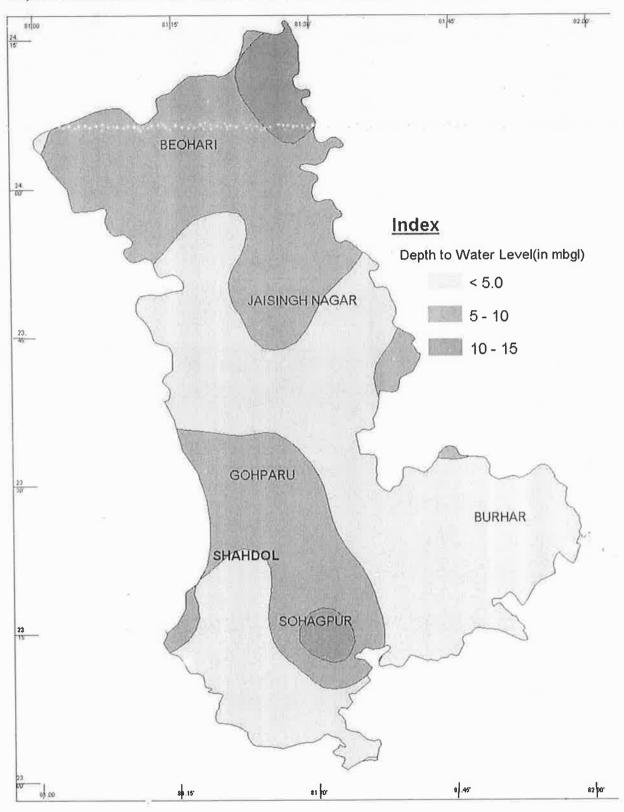
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Depth to Water Level- Pre-Monsoon(May'2012) District Shahdol, M.P.



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Depth to Water Level Post - Monsoon(Nov' 2012) District Shahdol, M.P.



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CHAPTER - 14

DETAILS OF ECO - SENSITIVE AREA, IF ANY, IN THE DISTRICT:

The eco sensitive zone that I sunder threat is the dense and thick forest of Shahdol district.

Recently, there have been proposals to demarcate the forest as protected, as the forest is declining rapidly.

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.

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CHAPTER - 15

IMPACT ON THE ENVIRONMENT DUE TO SAND MINING ACTIVITY AND MITIGATION MEASURES:

1.0 INTRODUCTION

(1

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 keepin is view overall scientific development of local habitat and the adverse impact that may be caused due to the sand mining operation. The Mining activites are no doubt essential for development & for providing better standard of life. But, there are environmental concerns related to mining activites. In order to maintain the balance in eco-system, legislations have been enacted, compliance of which would not only allow sustainable development of current needs but also leave options open for the posterity.

A scientific assessment of these impacts those ar likely to influence the existing evvironmental 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 attriutes 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

2.0 OBJECTIVES

- > To ensure that sand extaction 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 opportunites to the locals
- > To restore the ecosystem to the maximum extent possible.
- Mining depth should be restricte to 3 merters and distance from the bank should be not the

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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 furmished hereunder.

AIR ENVIRONMENT

Anticipated impacts-

(A) Due to Haul road/Access Road

Plying of trucks from pulic road to river sand collection points needs access roads. Majority of such access roads are the same existing roads/tracks being used by pederstians/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 area. 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 poject involving active Sand mining operations.

Mitigation Measures-

- (A) Movement of the vehicls 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 spped 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 vovered 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 (FUC) issued by appropriate authorities.
 - > Regular maintenance of transport vehicles and monitoring of vehicular emission levels

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Figure 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 componets of the environment and therefore may not have any effect on there charge of ground waters of affect the water qually. 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.
- Mining below subterrancan 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

habitation, borehole users due to dust, noise and it also causes traffic hazards.

> Surface degradation due to road network.

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 or 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.
- Force of the first of the first of 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 o vehicl3s 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 the labors working at the site.

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

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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.
- Green belt 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.

GREEN BLET 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 to lerant and fast growing species so that permanent green belt is created.
- To stabilize the river bank erosion the plantiation 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 (Azadirachtaindica)
 - Sissoo (Dalbergiasissoo)
 - Mango (Mangiferalndiaca)
 - Peepal (Ficus religiosa)
 - Bargad (Ficus benghalensis)
 - Chirol (Holopteleaintegrifolia)
 - Karanj (Millettiapinnata)
 - Khimi (ManiIkarahexandra)
 - Amaltas (Cassiafistula)

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- Jungle Jalebi (Pithecellobiumdulce)
- Amla (Phyllanthusemblica)
- Bel (Aeglemarmelos)

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.
- > Supplimenting 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 socioeconomic activities in the

region and thereby accelerate further development processes.

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CHAPTER - 16

REMEDIAL MEASURE TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT:

Air

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

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

- Dust generation shall be reduced by using sharp teeth of shovels.
- Wet drilling shall be carried out to contain the dust.
- Controlled blasting techniques shall be adopted.
- Water spraying on haul roads, service roads and overburden dumps will help in reducing considerable dust pollution.
- Proper and regular maintenance of mining equipment's have to be considered.
- Transport of material in trucks covered with tarpaulin.
- The mine pit water can be utilized for dust suppression in and around mine areas.
- Information on wind direction and meteorology will be considered while planning, so that pollutants, which cannot be fully suppressed by engineering technique, will be prevented from reaching the nearby agriculture area.
- Comprehensive green belt around overburden dumps has to be carried out to reduce to fugitive dust emissions in order to create clean and healthy environment.

Water

- Construction of garland drains to divert surface run-off into the mining area.
- Construction of check dams / gully plugs at strategic places to arrest silt wash off from broken up area.
- Retaining walls with weep hole will be constructed around the mine boundaries to arrest silt wash off.
- The mined out pits shall be converted into the water reservoir at the end of mine life.

This will help in recharging ground water table by acting as a water harvesting structure.

- Periodic analysis of mine pit water and ground water quality in nearby villages.
- Domestic sewage from site office & urinals/latrines provided in ML is discharged in septic tank followed by soak pits.

Noise

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- Development of thick green belt around mining area and haul roads to reduce the noise.
- Provision of earplugs to workers exposed to high noise generating activities. Workers and operators at work site will be provided with earmuffs.
- Conducting periodical medical check-up of all workers for any noise related health problems.
- Proper training to personnel to create awareness about adverse noise level effects.
- Periodic noise monitoring at suitable locations in the mining area and nearby habitations to assess efficacy of adopted control measures.
- During the blasting, optimum Spacing, Burden and charging of holes will be made under the supervision of competent qualified mines foreman, Mate as approved by Director of Mines safety.

Land Environment

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

Biological Environment

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

 Sale revel Environment I:npact seessment Authority, M.P.

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CHAPTER-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 physicalhazards are as below: -

Physical Hazards due to Mining Operations:

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

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 eyefatigue. In present ease, 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 emciency, 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 46.1°C 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: Mactching the main source of noise pollution at the mine site.

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

Shahdol 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 Shahdol and one in Burhar. All the CHCs are equipped with 1 ambulance and 25-30 beds respectively, while PHCS consist 10-15 beds and having no ambulance. District also has 185 ANM workers, who are well trained for first widnment impact Wassessment Authority, M.P. and primary care. Paryaveran Parisar

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

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 elimination goals. Success of this endeavour will be an important chapter in the history of control of infectious diseases.

Tuberculosis is a disease dreaded due to its social consequences and age old myths and misconceptions regarding its transmisston 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.

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CHAPTER 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 technobgy 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 compitable, with IOW 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 specious 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 Recommended Plant species for green belt development/plantation,

S. No.	Botenical Name	Family	Common Name
1	Bougainvillea glabra choisy	Nyctagianaceac	Boogenbel
2	Hibiscus rose-sinensis L	Malvaceac	Gurhal
3	Nerium indicum Mill	Apocynaceace	Kaner
4	Plumeria rubra L	Apocynaceac	Champa
5	Tabernaemontana divaricate (L) R. Br. Ex Roem. & Schult	Apocynaceace	Chandni
6	Ailanthus excels roxb.	Simaroubaceac	Maha nimbi
7	Alastonia scholaris (L.) R. Br.	Apocynaceac	Chitvan
8	Cassia Fistula L	Caesalpiniaceac	Amaltas
9	Butea monosperma (Lamk) taub	Fabaceac	Khakra/Palash
10	Nyctanthes arbour-tristis L.	Oleaceac	harsingar
11	Amdirachta indica A. Juss	Meliaceae	Neem Sovietneent

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Arera Colony, Bhopal (M.F.)

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12	Ficus religtosa L	Moraceae	Pipal
13	Pterosperrnum acerifolium willd	Sterculiaccac	Kanak Champa
14	Teetona grandis L	Verbenaceae	Teak/ Sagun
15	Terminalia cattapa L	Cornbretaceae	Jangli badam
16	Ziziphus mauritiana Lamk.	Rhamnaceae	Bada 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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PLANTATION DONE BY MINING OFFICE SHAHDOL

CHAPTER - 19

NEED FOR SAND REPLENISHMENT STUDY AND FACTORS TO BE CONSIDERED:

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

Formation of sand comprises of the following:

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

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

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

(क) नदी या धारा और अन्य रेत के स्त्रोत के ब्योरे:

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Parvayaran Parvayaran Bhupal (M.P.)

E-5, Arera Colony, Bhupal

क्र. स.	जिला	नदी या धारा का नाम
1		सोन नदी
2		मुड़ना
3		सरफा
4		कुनुक
5	शहडोल	चुंदी
6		ओदरी
7		बनास
8		झापर
9		समधिन

(ख) रेत या कंकड़ या समग्र संसाधनो की उपलब्धता

- [-	जिला	नदी का नाम	खनिज की उपलब्धता
1		सोन नदी	1484421 घनमीटर
2		मुड़ना	निल
3		सरफा	निल
4	-	कुनुक	100000 घनमीटर
5	शहडोल	चुंदी	167460 घनमीटर
6		ओदरी	निल
7		बनास	91280 घनमीटर
8		झापर	68040 घनमीटर
9		समधिन	50000 घनमीटर
10		अखड़ार	58410 घनमीटर

1/4x1/2 ftys esa foleku jsr ds [kuu iV~Vksa ds C;ksjs vkS] lexzwe 80

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क्र	ग्राम का नाम	तहसील का नाम	खसरा क्रमांक	रकवा (हेक्ट)	घोषित	घोषित करने का पत्र क्रमांक एवं दिनांक
1	चाका		853/1317	2.023	घोषित	पत्र क्रमांक 2782 दिनांक 31.12.2018
2	बटुरा	बुद़ार	1279/1567	5	घोषित	पूर्व से धोषित।
3	चाका		853/1317	2.023	घोषित	पूर्व से घोषित।
4	पोड़ीकला		1801/2062	4.8	घोषित	पत्र क्रमांक 2783 दिनांक 31.12.2018
5	पोड़ीकला		2055/2063	3.9	घोषित	पत्र क्रमांक 2782 दिनांक 31.12.2018
6	भटिगवॉ खुर्द		91	4.8	घोषित	पत्र क्रमांक 1998 दिनांक13.09.2018
7	मसीरा		39/534	20	घोषित	पत्र क्रमांक 134 दिनांक 30.01.2020
8	दतारी		191/242	0.829	घोषित	पत्र क्रमांक 2219 दिनांक 06.12.2019
9	पसौढ़	जयसिंह नगर	455/472, 291/471, 7/470	43.303	घोषित	पत्र क्रमांक 2216 दिनांक 06.12.2019
10	अटरिया		1, 52	4.49	घोषित	पत्र क्रमांक 138 दिनांक 30.01.2020
11	सेमरपाखा		223/559	6	घोषित	पत्र क्रमांक 2243 दिनांक 09.12.2019
12	बरकछ		266/1	10	घोषित	पत्र क्रमांक 31 दिनांक 10.01.2020
13	संनौसी		1453	1.457	घोषित	पत्र क्रमांक 137 दिनांक 30.01.2020
14	गंधिया		689	7.355	घोषित	पत्र क्रमांक 142 दिनांक 30.01.2020
15	दादर		567, 568	5	घोषित	पत्र क्रमांक तुन्ति । mक्रमांक Level Environment । mक्रमांक Sessment Authority, M.P.

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						30.01.2020
16	भांगजीर		22, 178	3.484	घोषित	पत्र क्रमांक 135 दिनांक 30.01.2020
17	दरैन		515/1, 315	2.661	घोषित	पत्र क्रमांक 141 दिनांक 30.01.2020
18	बराछ		2524	4.734	घोषित	पत्र क्रमांक 2218 दिनांक 06.12.2019
19	बराछ		2126/1, 2490, 2491	8	घोषित	पत्र क्रमांक 132 दिनांक 30.01.2020
20	बराछ		2526, 2573, 2575/1, 626/1, 616	8	घोषित	पत्र क्रमांक 130 दिनांक 30.01.2020
21	सौंता		380	2.63	घोषित	पत्र क्रमांक 191 दिनांक 04.02.2020
22	पतेराटोला	-	139/202	4.5	घोषित	पत्र क्रमांक 162 दिनांक 01.02.2020
23	तगावर	जयसिंह नगर	113	1.404	घोषित	पत्र क्रमांक 139 दिनांक 30.01.2020
24	नवागाँव		1, 2,3	4.973	घोषित	पत्र क्रमांक 133 दिनांक 30.01.2020
25	भुरसी	गोहपारू	15	4	घोषित	पत्र क्रमांक 126 दिनांक14.01.2019
26	लोढ़ी		64	3.173	घोषित	पत्र क्रमांक 301 दिनांक 23.01.2019
27	रसपुर		433	4	घोषित	पत्र क्रमांक 2156 दिनांक 03.10.2018
28	बोडिडहा	ब्यौहारी	233	4.5	घोषित	पत्र क्रमांक 100 दिनांक14.01.2019
29	बोडिडहा		165	2.314	घोषित ऽ।व	पत्र क्रमांक 2215 दिनांक 06.12.2019 Level Environment Impact sessment Authority, M.P.

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30	ब्यौहारी		197, 203, 187, 771 (180 का अंशभाग (12.177	घोषित	पूर्व से घोषित।
31	जैतपुर		576	2.023	घोषित	पत्र क्रमांक 133 दिनांक 30.01.2020
32	कमता	जैतपुर	685	4	घोषित	पत्र क्रमांक 1741 दिनांक17.06.2020
33	कोल्हुवा	9(13)	1	4.046	घोषित	पत्र क्रमांक 1748 दिनांक17.06.2020
34	लुकामपुर		1, 158, 159	3.641	घोषित	पत्र क्रमांक 1749 दिनांक 17.06.2020
35	लालपुर	सोहागपु	2084	5	घोषित	पूर्व से घोषित।
36	रोहनिया	र	167	5	घोषित	पूर्व से घोषित।
37	पटासी	-	28	5	घोषित	पूर्व से घोषित।
38	पैरीबहरा		718, 559, 572	10.076	अघोषित	वनमण्डलाधिकारी दक्षिण शहडोल से पत्र क्रमांक 1823दिनांक 27.06.2020से पुन : जानकारी मंगाई गई है।
39	पड़रिया	जैतपुर	994	4.666	अघोषित	वन सीमा से 250 मीटर की परिधि में आने के कारण आयुक्त शहडोल को पत्र क्रमांक 238 दिनांक 18.02.2020से प्रस्ताव भेजा गया है।
40	पोड़ीकला	जयसिंह नगर	1801/2062, 2055/2063, 1857/2064	75.523	अघोषित	10 किलोमीटर की परिधि में नेशनल पार्क है। वनमण्डलाधिकारी उत्तर शहहोन् priremmentump

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						1824दिनांक 27.06.2020 से पुन :जानकारी मंगाई गई है।
41	सेमरपाखा	जयसिंह नगर	296/552	4	अघोषित	खसरे में राजस्व वन अंकित होने के कारण तहसीलदार जयसिंहनगर से पत्र क्रमांक 167 दिनांक 03 02.2020.से जानकारी मंगाई है।
42	सोनटोला (हर्रहा टोला)	गोहपारू	899/982	4.8	घोषित	वन सीमा से मीटर की 250 परिधि में आने के कारण आयुक्त महोदय शहडोल को पत्र क्रमांक दिनांक 238 व भेजा से प्रस्ता 18.02.2020 गया है।
43	अमझोर		470, 243, 820, 843	5.26	अघोषित	वन सीमा से मीटर की 220 परिधि में आने के कारण महोदय शहडोल को आयुक्त दिनांक 238 पत्र क्रमांक 18.02.2020से प्रस्ताव भेजा गया है।
44	विशनपुरवा		363	3	अघोषित	वन सीमा से की मीटर 150 परिधि में आने के कारण महोदय शहडोल को आयुक्त दिनांक 238 पत्र क्रमांक व भेजा से प्रस्ता 18.02.2020 गया है।
45	अंकुरी		617	4	अघोषित	वन सीमा से बफर जोन से लगे होने के कारण आयुक्त महोदय शहडोल को पत्र e Level Environment Impact कर्मी के Author दिला कि P. 238

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						व भेजा से प्रस्ता 18.02.2020 है। गया
46	सेमरा		412, 497	4.047	अघोषित	वन सीमा से मीटर की 200 परिधि में आने के कारण महोदय शहड़ोल को आयुक्त दिनांक 238 पत्र क्रमांक व भेजा से प्रस्ता 18.02.2020 गया है।
47	रसपुर		1364, 433, 1316	23	अघोषित	10 किलो मीटर की परिधि में नेशनल पार्क है ।
48	उक्सा	ब्यौहारी	497	5	अघोषित	वनमण्डलाधिकारी उत्तर
49	झरौसी 1		598	6.163	अघोषित	शहडोल से पत्र क्रमांक 1824 दिनांक 27.06.2020 से पुन :
50	झरौसी 2		1492	9.203	अघोषित	

Annexure-I

Description of Main River & their drainage system

S.N	Name of River	Drainage area (in KM)	% of drainage area in district
1	Son river	18500	75
2	Mudna	126	70
3	Sarfa	405	100
4	Kunuk	880	97
5	Chundi	550	92
6	Odari	464	82
7	Banas	360	36
8	Jhapar	295	100
9	Samdhin	310	100

State Level Environment Impact
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(EPCO)

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

Main characteristics of Main River or stream

S.N	Name of river or stream	Total length in district (in km)	Place of origin	Height at place of origin (in mt.)
1	Son river	210	Sonmuda amarkantak	1,048
2	Mudna	42	kelmaniya	571
3	Sarfa	39	Samatpur	607
4	Kunuk	69	Kunuk Chhattisgarh	635
5	Chundi	52	Bhumka Chhattisgarh	509
6	Odari	44	Kavarpur Chhattisgarh	540
7	Banas	102	Chhattisgarh	-
8	Jhapar	25	Bijha	414
9	Samdhin	-	-	-

Annexure -III

Main characteristicas of important river or stream

Recommended area/part of river or stream for mineral saving.	Length of area for mineral savings (in mt)	width of area for mineral savings (in mt)	Recommended area for mineral saving (in sq. km)	Mineable mineral capacity (in Mt.) 60 % of total mineral capacity.
Nil	Nil	Nil	Nil	Nil

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E-5, Arera Colony, Bhop Annexure -IV

Mineral Capacity

Boulder	Sand	Bajari	Total mineable mineral
(in Mt.)	(in Mt.)	(in Mt.)	capacity (in Mt.)
-	3448276	-	5803190

Annexure -V

Annual Deposition

Boulder	Sand	Bajari	Total mineable mineral capacity (in Mt.)
(in Mt.)	(in Mt.)	(in Mt.)	
-	3448276		5803190

Annexure -VI

Annual Deposition

S	Rive	Recommende	length of	Width of	Recommen	Mineable	Latitude
	r or	d part of river	Recomme	Recomme	ded area	Quantity	&
N	Stre	or stream for	nded area	nded area	for	of total	Longitud
	am	mineral saving	for	for	mineral	mineral	e of
			mineral	mineral	saving (in	capacity	propodes
			saving	saving	sq. km)	(in Mt.)	area &
			(in mt.)	(in mt.)			height to
							sea level
1	NIL	NIL	NIL	NIL	NIL	NIL	NIL

Annexure -VII

Details of Sand/M-Sand Sources

a) River:

(3)

River Name/M-Sand	Total Stretch of River	Type of River (Perennial or
Plant	(in KM.)	Non-Perennial)
Son	210	Perennial
Murna	42	Non-Perennial
Sarfa	39	Non-Perennial
Kunook	69	And Devel Env Prometh 125.

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

Chundi	52	Non-Perennial
Odri	44	Perennial
Banass	102	Perennial
Jhapar	25	Non-Perennial
Samdhin		Non-Perennial

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

Name of	Maintain/Controlled	Location	District	Tahsil	Village	Size
reservoir/	by state Govt/PSU					(HA)
Dams	etc.					
Nil	Nil	Nil	Nil	Nil	Nil	Nil

C) Patta Land/Khatedari Land:

Owner	Sy.	Area	District	Tahsil	Village	Agricultural
	No.	(Ha)				Land (Yes/No)
Nil	Nil	Nil	Nil	Nil	Nil	Nil

d) M-Sand Plants:

Plant Name	Owner	District	Tahsil	Village	Geo Location	Quantity Tones/
						Annum
Nil	Nil	Nil	Nil	Nil	Nil	Nil

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

List of potential Sand Mining Area (Existing & Proposed) Rivers

River	Lease	Area	Distan	Distan	Minin	Total	Mineral	Existin
Details	Detai ls	(in Ha)	ce (In	ce From	g Lease	excavatio n in	to be mined	g/ Propos
	13	114)	K.M.)	Forest	within	tones /	(Sand/Ba	ed
			From PA/BR	Area (in	500 mtr.	Annum consideri	jri/ RBM etc.)	
			/WC	K.M.)	(If yes cluster area)	ng digging depth	·	
					,	max. as 3 mtr.		

Patta Lands/Khatedari Land: (Existing & Proposed)

Owner	Sy. No.	Area	District	Tahsil			Total Mineral to be mined (MT)	Existing/ Proposed
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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

Name of reservoir / Dams	Maintain/Controlled by state Govt/PSU etc.	Locatio n	Distr ict	Tahs il	Villa ge		Quanti ty MT /Year	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

M-Sand Plants: (Existing & Proposed)

Plant	Owner	District	Tahsil	Village	Geo	Quantity	Existing/
Name					Locati	Tones/	Proposed
					on	Annum	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Assessment Authority, M.P.

Paryavaran Parisar

Paryavaran Bhopal (M.P.)

Annexure -IX

Cluster & Contiguous Cluster details Cluster

River	Cluster	Lease	Location	Village	Area	Total	Total
Name	No.	No.	(Riverbed/		(in	Excavati	Mineral
			Patta		HA)	on(Ton)	Excavation
			Land)				(Ton)
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Contiguous Cluster

River	Contigu	Cluster	Number	Location	Villag	Area	Total
Name	ous	No.	of leases	(Riverbed	e	of	Mineral
	Cluster		in the	/		cluster	Excavati
	No.		cluster	Patta		(HA)	on (Ton)
				Land			
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Annexure -X

Transportation Routes for individual Sand Quarry and Sand Quarry in Cluster

For Leases:	Transportatio	Number	Number	Length	Type of	Recomm	The road	Route
Lease No.	n Route No.	of	of	of	road	endation	will be	Мар
		tippers/da	tippers/da	Routs	(Black	for road	Contructe	&
		y of lease	y of all the	in K.M.	Topped	(Black	d by	Locati
			lease on		/	Topped/	Govt./	on
			routs		unpave	unpaved)	Lease	
					d)		Owner	
D 2	SH- 09,	0	0	135,85,	Black	Black	Contructe	F#3
Raspur 2	10,43	0	0	3	Topped	Topped	Lease Owner Contructe d by Govt Contructe	
V	CH	10	10		CC	CC Road	Contructe	
Kamta	SH-	10	10		Road	CC Road	d by Govt	
Bhatigawa	CII	0	0		Black	Black	Contructe	-
n Khurd	SH-		U		Topped	Topped	d by Govt	
D 111 1 2	SH- 09,	1.5	1.5	135,85,	CC	CC Road	Contructe	
Podikala 3	10,43	15	15	3	Road		d by Govt	
Chaka	NH - 43,78	15	15	15	CC	CC Road	Contructen	eal Impac ity, M.P.

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

					Road		d by Govt	
Batura	NH - 43,78	0	0	12	CC	CC Road	Contructe	-
Datura	1411 - 43,76	U	O O	12	Road	CC Road	d by Govt	
Rohaniya	SH- 09A,NH	20	20		Black	Black	Contructe	: - ;
Ronaniya	45	20	20		Topped	Topped	d by Govt	
Boddiha 1	SH- 09,	30	30	135,	Black	Black	Contructe	
Doddina 1	10,43	30	30	85, 3	Topped	Topped	d by Govt	
Lalpur	NH - 43,78	0	0	32	CC	CC Road	Contructe	-
Laipui	1411 - 43,70	O	0	32	Road	CC Road	d by Govt	
Bhursi	SH-	0	0		Black	Black	Contructe	-
Bildisi	OII.	0			Topped	Topped	d by Govt	
Patasi	SH-	10	10		Black	Black	Contructe	-
1 atasi	OII.	10	10		Topped	Topped	d by Govt	

For Cluster:

Cluster No.	Transportatio	Number of	Number	Length of	Type of	Recommend	The road will	Route	
Cluster 140.	n Route No.	tippers/day	of tippers/	Routs in	road	ation for	be Contructed	Map &	
		of Cluster	day of all	K.M.	(Black	road (Black	by Govt./	Location	
			the		Topped/	Topped/unp	Lease Owner		
			Cluster on		unpaved)	aved)			
			routs						
Beohari	SII 00 10			44.40	Black	Black	Contructed		
Deonari	SH- 09,10	45	45	Topped	Topped	by Govt			
Jaisinghnag	SH- 03]	43	43	44.5	Black	Black	Contructed		
ar ar	08] 09,10			44,5	Topped	Topped	by Govt	-	
0.1	SH- 09,55	20	20	4.1	Black	Black	Contructed		
Sohagpur	45	30	30	44,	Topped	Topped	by Govt	*	
Dankan	SH-	1.5	1.6		CC	CC Pand	Contructed		
Burhar	09,78,43	15	15		Road	CC Road	by Govt	-	
Yalanın	011 00 10	10	10		CC	CO D - 1	Contructed		
Jaitpur	SH- 09,10 10		10		Road	CC Road	by Govt	-	

Assessment Authority, M.P.

Assessment Authority, M.P.

(EPCO)

Paryavaran Parisar

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

Annexure -XI

Final List of potential Sand Mining Area (Existing & Proposed) Rivers

River Details	Lease Details	Area (in Ha)	Distanc e (in K.M.) From PA/BR/ WC	Distanc e From Forest Area (in K.M.)	Mining Lease within 500 mtr. (If yes cluster area)	Total excavation in (MT/Yr)(Min e depth max. as 3 mtr.)	Mineral to be mined (Sand/Bajr i/ RBM etc.)	Existing/ Propose
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Patta Lands/Khatedari Land: (Existing & Proposed)

Owner	Sy. No.	Area	District	Tahsil	Village	Total Reserve (MT)	Total Mineral to be mined (MT)	Existing/ Proposed
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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

Name of reservoir/ Dams	Maintain/Co ntrolled by state Govt/PSU etc.	Locatio n	District	Tahsil	Village	Size (HA)	Quantit y MT /Year	Existing/ Proposed
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

M-Sand Plants: (Existing & Proposed)

Plant Name	Owner	District	Tahsil	Village	Geo Location	Quantity MT/ Annum	Existing/ Proposed
Nil	Nil	Nil	Nil	Nil	Nil	Nil Soviron	ment implici
			L			Tale Level Environ	ority, M.P.

As Alada PCO)

Paryavaran Parisar

Paryavaran Phopal (M.P.)

Annexure -XII

Cluster & Contiguous Cluster details Cluster:

River Name	Cluster No.	Lease No.	Location (Riverbed/ Patta Land)	Village	Area (in HA)	Total Excavatio n (Ton)	Total Mineral Excavatio n (Ton)
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Contiguous Cluster:

River Name	Contiguou s Cluster No.	Cluster No.	Number of leases in the cluster	Location (Riverbed /Patta Land	Distanc e between clusters	Village	Area of cluster (HA)	Total Mineral Excavation (Ton)
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Annexure -XIII

Final Transportation rout for individual Sand Quarry & sand quarry Cluster:

For Leases

Lease	Transportatio	No. of	No. of	Lengt	Type of	Recomme	The road	Route
No.	n rout No.	tippers	tippers	h of	Road	ndation	will be	map &
		/day of	/day of	rout in	(Black	for road	constructed	Location
		lease	all the	KM	topped/	(Black	by	
			lease on		unpaved)	topped/un	govt./lease	
			rout			paved)	owner	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

For Cluster

Cluster	Transporta	No. of	No. of	Length	Туре	Recomm	The road	Route map &
No.	tion rout	tippers	tippers	of rout	of	endation	will be	Location
	No.	/day of	/day of	in KM	Road	for road	constructed	
		Cluster	all the	ľ	(Black	(Black	by	
			Cluster		topped/	topped/un	govt./lease	
			on rout		unpave	paved)	owner	
					d)			
Nil	Nil	Nil	Nil	Nil	Nil	Nil	and Niledion	ment lappe.
							Austriant Autho	itty, M.P.

Arera Colony, Bhopal (M.P.)

जिले में स्थित रेत खदानों मे रेत पुनर्भरण की जानकारी

जिले मे	जिले मे	नदी	खदान का	रेत	रेत	रेत	मानसून	मानसून	प्रतिवर्ष	विगत
मानसून	मानसून	का	नाम	खदान	खदान	खदा	के पूर्व	के	अनुमानि	03 वर्षो
प्रारम्भ	अवसान	नाम	****	की	की	न की	उपलब्ध	पश्चात	ਰ	मे
की	की			लंबाई	चौड़ाई	गहरा	खनिज	उपलब्ध	उत्पादन	उत्पादित
तिथि/मा	तिथि/			(मी.	(मी. मे)	ई	रेत की	खनिज	की मात्रा	खनिज
ह	माह			मे)		(मी.	मात्रा	रेत की	(घन मी	रेत मात्रा
•						मे)	(घन मी	मात्रा	मे)	(प्रतिवर्ष
							मे)	(घन मी		घन मी.
								मे)		मे)
30.6.20	30.9.2									
वर्षा	0									
प्रारम्भ										
		कुनुक	जैतपुर	2000	10	2.53	50575	50575	50575	
		कुनुक	कमता	2000	20	2.5	100000	100000	100000	##X
		कुनुक	पैरीबहरा	5000	20	2.51	251900	251900	251900	
		3 3				9				
		कुनुक	कोल्हुवा	2000	20	2.52	101150	101150	101150	
						8				
		कुनुक	लुकामपुर	3000	15	2.02	91025	91025	91025	
				5000	10	2	61500	61500	61500	184500
		सोन	लालपुर	5000	10	1.23				
		सोन	रोहनिया	5000	12	2.36	142000	142000	142000	309000
		सोन	पटासी	5000	12	1.28	95000	95000	95000	
		सोन	बट्रा	5000	15	1.9	142500	142500	142500	
		सोन	चाका	2000	30	1	60000	60000	60000	1
		सोन	हरहाटोला	4000	20	1.25	100125	100125	100125	*:*
		सोन	विशनपुरवा	3000	15	2	90000	90000	90000	
		सोन	अंकुरी	4000	10	3	120000	120000	120000	
	1	_					101175	101175	101175	
		सोन	सेमरा	4000		1.26				
		सोन	पौंडीकला	9440	80	3	226569	226569	226569	
			-	4000	10	3	120000	120000	120000	
		सोन	सेमरपाखा							
		सोन	सेमरपाखा	6000	15	2	180000	evel Enviro	180000 thority, M.P.	cl

Paryavaran Parisal
(E-5, Arera Culony, Bhopal (M.P.)

सोन	पौंडीकला	4000	20	1.8	144000	144000	144000	Ħ.ē
सोन	पौंडीकला	3000	20	1.95	117000	117000	117000	22
सोन	चरकवाह	4000	15	2	120000	120000	120000	### (
झापर	बराछ	4000	12	2.95	142020	142020	142020	ar.
झापर	बराछ	8000	12	2.5	240000	240000	240000	22
झापर	बराछ	8000	12	2.5	240000	240000	240000	**
झापर	बरकछ	1000	12	2.5	300000	300000	300000	
बलौड़	सनौसी	1000	8	2.42	36425	36425	36425	
झापर	रसपुर	2300	12	2.5	69000	69000	69000	
झापर	रसपुर	4000	12	1.41	68040	68040	68040	
बनास	बौद्दिहा	4000	10	1.78	71280	71280	71280	24年
बनास	बौद्दिहा	2000	10	1	20000	20000	20000	·==
झापर	उक्सा	5000	10	3	150000	150000	150000	
समधि	खामडांड	1000	5	1	50000	50000	50000	24
झापर	झरौसी1	6000	12	2.67	184890	184890	184890	==
झापर	झरौसी 2	9000	10	3	276090	276090	276090	
चूंदी	गंधिया	7000	10	2.62	183875	183875	183875	++.
चूंदी	भटिगवा <u>ख</u> दं	4000	10	1.85	72270	72270	72270	₹*)
चूंदी	दादर	5000	12	2.08	125000	125000	125000	
लेडार	भांगजीर	3000	14	2.07	87100	87100	87100	
जग भुल्ला	दर्रन	2600	12	2.13	66525	66525	66525	(***)
मौस मी मी	सौंता	2600	10	2.55	39450	39450	39450	••
मौस मी नाला	पतेराटोला	1400	12	1.25	21060	21060	21060	
मौस मी नाला	तगावर	4500	12	1.25	67500	67500	67500	
चूंदी	नवागाँव	4900	13	1.95	124325	124325	124325	**
अखडा	भुरसी	4000	12	1.21	58410	58410	58410	

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Assessment Authority, M.P.
[EPCD]

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[EP arat 2 day, Balopai (M.P.)

र								
चूंदी	लौड़ी	3100	12	2.55	95190	95190	95190	

Momen

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

CHAPTER - 20

RISK ASSESSMENT & DISASTER MANAGEMENT PLAN:

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

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

General Responsibilities during an Emergency

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

Co-ordination with Local Authorities

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

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598वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 07 अक्टूबर 2022

SEAC meeting dated 07/10/22

जिले की जिला सर्वेक्षण रिपोर्ट में तालिका कृ0. निरंक Annexure-III पेज न0. 60 से 64 में माइनेबल मिनरल पोटेंशियल (घनमीटर में) 60% टोटल मिनरल पोटेंशियल, लीजवार, लंबाई, चौड़ाई एंव गहराई के साथ दर्शाया है एवं विगत 03 वर्षों के उत्खनित रेत की मात्रा का लीजवार पोटेंशियल दिया गया है। जिससे ज्ञात हो सके कि उस स्थल पर खदान का मिनरल पोटेंशियल विगत 03 वर्षों में कितना रहा।

आज दिनांक 07 / 10 / 22 को जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एंव खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्री श्री प्रमोद शर्मा, खनिज अधिकारी, के साथ उपस्थित रहे ।

चर्चा उपरांत समिति ने पाया कि खनि. अधिकारी,कार्यालय कलेक्टर,(खनिज शाखा) जिला— शहडोल के पत्र क0 848, दिनांक 04/10/22 के माध्यम से मिनरल पोटेंशियल की गणना में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है मिनरल पोटेंशियल की गणना दर्शाने वाली टेबल में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है।

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

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

2. अन्य गौण खनिज – रेत को छोड़कर, जिला शहड़ोल

कार्यालय कलेक्टर के पत्र क0. 19 दिनांक 07/10/2022 के माध्यम से जिला सर्वेक्षण रिपोर्ट— शहड़ोल (अन्य गौण खनिज) की जिला सर्वेक्षण रिपोर्ट उप समिती का अनुमोदन एंव जिला पोर्टल पर रखने के उपरांत प्रस्तुत की गई है।

598वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 07 अक्टूबर 2022

Mineral	Other than Sand
Earlier DSR Discussed	SEAC 592 th Meeting dated 06.09.22
Approved /or recommend for Updation (if Updation then elaborate issues) Deliberation in the SEAC 591 th Meeting dated 27.0822	सर्राय मूल्यांकन समिति की 591 वीं बैठक दिनांक 27/08/22 आज दिनांक 06/9/22 को जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एंव खनिकर्म, विभाग भोपाल से श्री पी.पी. राय एवं श्री प्रमोद शर्मा, खनिज अधिकारी के साथ उपस्थित रहे । जिले की संशोधित शहडोल जिला सर्वेक्षण रिपोर्ट (गौण खनिज) मे पाया गया कि:— 1. पेज 12 टेबल न0.निरंक की तालिका में 16 बिन्दुओं की जानकारी नहीं दी गयी है। जिससे लीज के अक्षांश —देशांश की जानकारी भी नहीं है। 2. लीजवार हरित क्षेत्र विकास की जानकारी भी नहीं दी गयी है। 3. जिले में उपलब्ध कुल खनिज भण्डार की जानकारी देवें। 4. जिले में उपलब्ध कुल खनिज की क्वालिटी /ग्रेड की जानकारी देवें। 5. पिछले 03 वर्षों के दौरान मांग और पूर्ति की जानकारी देवें। 6. जिले में पारिस्थितिकी, संवेदनशील क्षेत्र (ESZ) यदि कोई हो तो जानकारी देवें। चर्चा उपरांत समिति की यह अनुशंसा है कि शहडोल की जिलासर्वेक्षण रिपोर्ट को समिति की सुझाई गयी उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं
	जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 के अनुसार पुनः प्रस्तुत की जावे तत्संबंध में उपस्थित खनिज अधिकारी को भी उपरोक्त संदर्भ में समझाईश दी गयी।
Revised DSR received from District Collectorate (Mining)	Vide District Collectorate (Mining) Office, Shahdol, No. 19 dated 07.10.2022
Hard Copy Soft Copy or both	Hard copy
SEAC meeting dated 07/10/22	 जिले की जिला सर्वेक्षण रिपोर्ट के टेबिल कमांक-9 (पेज क0. निरंक) में खदान की जानकारी निर्धारित प्रपत्र मे दे दी गई है। जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या एंव प्रजातियों की जानकारी जिला सर्वेक्षण रिपोर्ट टेबिल क्रमांक-9 (पेज क0.निरंक) मे दे दी गई है।

आज दिनांक 07 / 10 / 22 को जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एंव खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्री प्रमोद शर्मा, खनिज अधिकारी के साथ उपस्थित रहे।

समिति ने पाया कि खनि. अधिकारी,कार्यालय कलेक्टर,(खनिज शाखा) जिला— शहडोल के पत्र कृ0 19 दिनांक 07 / 10 / 22 के माध्यम खदान की जानकारी निर्धारित प्रपत्र में दे दी गई है तथा लीज

598वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 07 अक्टूबर 2022

धारकों द्वारा किये गये वृक्षारोपण की जानकारी, पौधों की संख्या एंव प्रजाति भी प्रस्तुत कर दी गई है। अतः समिति शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

(ह) अन्य गौण खनिज, जिला - बैतूल

Mineral	Other than Sand
Earlier DSR Discussed	SEAC 595 th Meeting dated 22.09.22
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation (Other than Sand)
Deliberation in the SEAC 594 th	राज्य स्तरीय मूल्यांकन समिति की 595 वीं बैठक दिनांक 22/09/22
Meeting dated 22.0922	कार्यालय कलेक्टर के पत्र क्0. 1368 दिनांक 19/09/2022 के माध्यम से जिला सर्वेक्षण रिपोर्ट— बैतूल (रेत खिनज) की जिला सर्वेक्षण रिपोर्ट उप समिती का अनुमोदन एंव जिला पोर्टल पर रखने के उपरांत प्रस्तुत की गई है। जिले की बैतूल जिला सर्वेक्षण रिपोर्ट (अन्य गौण खिनज) मे पाया गया कि:-
	 प्रस्तुत संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 में जानकारी निर्धारित फार्मेट (16 बिन्दुओं वाली टेबल) के अनुसार नहीं दी गयी है (तालिका –16 पेज 30)। पिछले तीन वर्ष के दौरान उत्पादन किये गौण खनिज का ब्यौरा नहीं दिया गया है। बड़वानी जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या, प्रजातियों की जानकारी को लीज—वार जिसमें यह दर्शाया गया हो कि निर्धारित लक्ष्य के विरुद्ध कितना पौधारोपण किया गया है। इसको भी सम्मिलित करें। चर्चा उपरांत समिति की यह अनुशंसा है कि बैतूल जिले की जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज को समिति की सुझाई गयी उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 के अनुसार पुनः प्रस्तुत की जावे तत्संबंध में उपस्थित खनिज निरीक्षक को भी उपरोक्त संदर्भ में समझाईश दी गयी।
Revised DSR received from District Collectorate (Mining)	Vide District Collectorate (Mining) Office, Baitul, No. 1481 dated 07.10.2022
Hard Copy Soft Copy or both	Hard copy
SEAC meeting dated 07/10/22	जिले की जिला सर्वेक्षण रिपोर्ट के टेबिल कमांक—9 (पेज क0. 16—34) में खदान की जानकारी निर्धारित प्रपत्र मे दे दी गई है।
	 जिले में हिरत क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या एंव प्रजातियों की जानकारी जिला सर्वेक्षण रिपोर्ट टेबिल क्रमांक—26 (पेज क्0. 56—66) में दे दी गई है।

राज्य स्तरीय पर्यावरण समाघात निर्घारण प्राधिकरण म.प्र. की 753वी बैठक दिनांक 26.10.2022 का कार्यवाही विवरण

"......अतः सिमिति निवाड़ी जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 598वीं बैठक दिनांक 07/10/2022 के अनुमोदन प्रस्ताव को मान्य करते हुए निवाड़ी जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

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

7. जिला सर्वेक्षण रिपोर्ट शहडोल (रेत खनिज)

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 598वीं बैठक दिनांक 07 / 10 / 2022 में निवाड़ी जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

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

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत निर्णय लिया गया कि SEAC की 598वीं बैठक दिनांक 07/10/2022 के निर्णय से यह स्पष्ट नहीं हो रहा है कि शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) का अनुमोदन की अनुशंसा की गई है अथवा नहीं। अतः उक्त जिला सर्वेक्षण रिपोर्ट पुनः परीक्षण हेतु SEAC को अग्रेषित की जाये।

8. जिला सर्वेक्षण रिपोर्ट शहडोल (अन्य गौण खनिज - रेत को छोड़कर)

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 598वीं बैठक दिनांक 07/10/2022 में शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

"................ अतः सिमिति शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 598वीं बैठक दिनांक 07/10/2022 के अनुमोदन प्रस्ताव को मान्य करते हुए शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज – रेत को छोड़कर) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

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

> (श्रीमन् शुक्ला) सदस्य सचिव

(अनिल कुमार शर्मा)

सदस्य

(अरूण कुमार भट्ट)