

**DISTRICT SURVEY REPORT DISTRICT DEWAS MADHYA PRADESH
FOR MINOR MINERALS OTHER THAN SAND MINING OR RIVER
BED MINING**



In pursuance to the Gazette Notification, Ministry of Environment, Forest and Climate Change (MoEF& CC), the Government of India Notification No S.O. 141 (E) Appendix- X, Dated 15.01.2016 & S.O. 3611 (E) New Delhi, 25th July 2018 laid procedure for preparation of District Survey Report of sand mining or river bed mining keeping in mind the "Sustainable Sand Management Guidelines 2016" which focuses on the Management of Sand Mining in the Country and "Enforcement & Monitoring Guidelines for Sand Mining-2020" which focus on prevention of illegal mining in the country.

**SUBMITTED BY
DISTRICT COLLECTOR OFFICE (KHANIJ) DISTRICT DEWAS MADHYA
PRADESH**

SSO (S&A)

2022

[Signature]
State Level Environment Impact
Assessment Authority, M.P.

(E-5)
Bhopal
Bhopal (M.P.)

Final

कार्यालय कलेक्टर (खनिज) जिला देवास (म.प्र.)

क्रमांक 2352/खनिज/2022-23

देवास, दिनांक 02/09/2022

प्रति,

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर ई-5 अरेरा कॉलोनी
भोपाल (म.प्र.)


विषय: जिला देवास की नवीन एवं संशोधित District survey Report Other than sand प्रस्तुत करने बाबत।

सन्दर्भ:

1. इस कार्यालय का पत्र क्रमांक 2168/2022-23 देवास दिनांक 01/08/2022
2. SEAC में आयोजित बैठक दिनांक 08/08/2022।

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उपरोक्त संदर्भित विषयांतर्गत लेख है कि जिला देवास कि District survey Report Other than sand Mineral संशोधित एवं अद्यतन की जाकर अनुमोदन हेतु मूलतः संलग्न प्रेषित है।


प्रभारी अधिकारी
(खनिज)

वास्ते कलेक्टर, जिला देवास (म.प्र.)
देवास, दिनांक 02/09/2022

पु. क्रमांक 2353/खनिज/2022-23
प्रतिलिपि:

1. सदस्य सचिव, राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) भोपाल की ओर सूचनार्थ।
2. संचालक, प्रशासन एवं खनिकर्म, मध्यप्रदेश भोपाल की ओर सूचनार्थ।


प्रभारी अधिकारी
(खनिज)

वास्ते कलेक्टर, जिला देवास (म.प्र.)

कार्यालय कलेक्टर (खनिज) जिला देवास (म.प्र.)

क्र. 2168/ खनिज / 2022-23
प्रति,


देवास दिनांक 01/08/2022

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर ई-5 अरेरा कॉलोनी
भोपाल (म.प्र.)

विषय: जिला देवास की नवीन सर्वेक्षण रिपोर्ट बाबत।

संदर्भ: (1) इस कार्यालय का पत्र क्रमांक 1865 दिनांक 16/06/2022
(2) राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) का पत्र क्रमांक 990 / SEIAA / 2022 Date 08/07/2022

उपरोक्त संदर्भित विषयान्तर्गत लेख है कि राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 581 वी बैठक दिनांक 24/06/2022 को आयोजित की गयी थी। जिसमें उल्लेखित बिन्दुओं एवं जानकारियों को सम्मिलित एवं संशोधन कर फोर्मेट में पृथक-पृथक रेत तथा अन्य गौण खनिजों की संशोधित जिला सर्वेक्षण रिपोर्ट (DSR) तैयार कर अनुमोदन हेतु पुनः आपकी ओर प्रेषित है।



कलेक्टर,

जिला देवास (म.प्र.)

देवास दिनांक 01/08/2022

पृ.क्र. 2169 खनिज / 2022-23
प्रतिलिपि,

1. सदस्य सचिव, राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) भोपाल की ओर सूचनार्थ।
2. प्रमुख सचिव, मध्यप्रदेश शासन खनिज साधन विभाग भोपाल की ओर सूचनार्थ प्रेषित।
3. प्रमुख सचिव, मध्यप्रदेश शासन, जल संसाधन, वन विभाग, पर्यावरण विभाग भोपाल की ओर सूचनार्थ।
4. संचालक प्रशासन एवं खनिकर्म मध्यप्रदेश भोपाल की ओर सूचनार्थ।
5. सदस्य सचिव, मध्यप्रदेश प्रदूषण नियंत्रण बोर्ड, ई-5 पर्यावरण परिसर, अरेरा कॉलोनी भोपाल की ओर सूचनार्थ।
6. प्रभारी अधिकारी, भौमिकी शाखा, संचालनालय भौमिकी तथा खनिकर्म मध्यप्रदेश भोपाल की ओर सूचनार्थ।
7. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय इंदौर की ओर सूचनार्थ।


कलेक्टर,

जिला देवास (म.प्र.)

कार्यालय कलेक्टर (खनिज) जिला देवास (म.प्र.)

क्रमांक 1865 / खनिज / 2022-23
प्रति,



देवास, दिनांक 16/06/2022

सदस्य सचिव,
राज्य स्तरीय पर्यावरण समाघात
निर्धारण प्राधिकरण (सिया) पर्यावरण
परिसर ई-5 अरेरा कॉलोनी भोपाल


विषय: सस्टेनेबल सेंड माइनिंग गाईडलाईन 2016 एवं इन्फोर्समेंट मॉनिटरिंग फॉर सेंड माइनिंग 2020 के अंतर्गत रेत खनिज हेतु जिला सर्वेक्षण रिपोर्ट तैयार किये जाने के संबंध में।

सन्दर्भ: संचालक प्रशासन एवं खनिकर्म मध्यप्रदेश भोपाल पत्र क्र - 2981 भोपाल दिनांक 03/03/2022

उपरोक्त संदर्भित विषयांतर्गत लेख है कि संचालक, प्रशासन एवं खनिकर्म मध्यप्रदेश भोपाल के पत्र क्र- 2981 भोपाल दिनांक 03/03/2022 के परिपालन में सस्टेनेबल सेंड माइनिंग मेनजमेंट गाडलाईन 2016 एवं इन्फोर्समेंट मॉनिटरिंग फॉर सेंड माइनिंग 2020 गाडलाईन के तहत जिला सर्वेक्षण रिपोर्ट (डी.एस.आर) गठित समिति के द्वारा तैयार कर प्रस्तुत की है।

अतः समिति द्वारा प्रस्तुत जिला सर्वेक्षण रिपोर्ट (डी.एस.आर) संलग्न कर अग्रिम कार्यवाही हेतु आपकी और प्रेषित है।

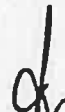
संलग्न: उपरोक्तानुसार


कलेक्टर,

जिला-देवास(म.प्र.)
देवास, दिनांक 16 /06/2022


पृ. क्रमांक 1866 / खनिज / 2022-23
प्रतिलिपि:

1. प्रमुख सचिव, मध्यप्रदेश शासन खनिज साधन विभाग भोपाल की ओर सूचनार्थ प्रेषित।
2. प्रमुख सचिव, मध्यप्रदेश शासन, जल संसाधन, वन विभाग, पर्यावरण विभाग भोपाल की ओर सूचनार्थ।
3. संचालक, प्रशासन एवं खनिकर्म मध्यप्रदेश भोपाल की ओर सूचनार्थ।
4. अध्यक्ष (SEAC), पर्यावरण परिसर ई-5 अरेरा कॉलोनी भोपाल की ओर सूचनार्थ।
5. सदस्य सचिव, मध्यप्रदेश प्रदुषण नियंत्रण बोर्ड, ई-5 पर्यावरण परिसर, अरेरा कॉलोनी भोपाल की ओर सूचनार्थ।
6. प्रभारी अधिकारी, भौमिकी शाखा, संचालनालय भौमिकी तथा खनिकर्म मध्यप्रदेश भोपाल की ओर सूचनार्थ।



कलेक्टर,
जिला-देवास(म.प्र.)

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

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 State Level Environmental Impact
 Assessment Agency (SEIAA)
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 State Capital, Bangalore 560075

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State Level Environment Impact
Assessment Authority, M.P.
(E.P. 1)
Director, Environment
E-5, Arera Colony, Bhopal (M.P.)


**DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING**

1. INTRODUCTION

The present District Survey report is updated in the light of notification no. S.O. 141(E) New Delhi, the 15th January, 2016 of MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE. The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects. The Report shall be updated once every five years. The earlier DSR was prepared in the year 2017 and as per above notification, earlier DSR is being updated in the year 2022. This will be a model and guiding document, which is compendium of available mineral resources, geographical set up, environmental and ecological set up of the district and replenishment of minerals. River channels and their floodplains are important sources of construction grade aggregate materials like sand and gravel. The durability of river-borne coarser clastics (e.g. sand and gravel) and their sorting by fluvial action make them best suitable raw materials / ingredients for building constructions. Most of the rivers in the world are overexploited for living and non-living resources and today the challenge posed to the society is to restore its natural ecology. As transportation and construction infrastructure expanded since the mid-twentieth century, the demand for construction grade mineral also increased exponentially. The market demand of construction material is high throughout the world and Madhya Pradesh is not an exception.

Dewas District in Ujjain Revenue Division, it situated on the Malwa plateau in the West-central part of Madhya Pradesh and lies between the latitude 22° 17' 27" N and 23° 19' 20" N and longitude 75° 53' 30" E and 77° 7' 30" E and occupying an area of around 7020 sq. Kms. The district extends for about 106 km. from north to south and about 102 km. from east to west. It falling in Survey of India topo sheet Nos 46M, 46N, 55A, 55B & 55F. The district is bounded by Ujjain district in the north, Indore district in the west, Khargone district in the south-west, Khandwa district in the south, Hoshangabad district in the South East, Sehore district in the east and Shajapur district in the North-East.

The district is now divided in to 9 tehsils viz. Sonkatch, Dewas, Bagli, Kannod, Tonk-Khurd, Khategaon, Satwas, Hatpipliya and Udainagar. Dewas tehsil is situated on the north-


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

Daryavaran Patilkar

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

**DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING**

western part of the district, Sonkatch on the north-eastern part, Bagli on the south, Kannod on the south-central part and Khategaon on the South-east.

All weather road connects all the tehsil headquarters. The Head-quarters of Dewas tehsil, which is also the district headquarters, is situated on The Bombay-Agra National Highway No.3 and is also connected by broad-gauge railway line of western Railway. Dewas is about 152 kilometers from Bhopal and 40 kilometers from Indore by road.

The Vindhychal range traverses almost across the central part of the district. North of it is the vast Malwa plateau. The southern part of the district lies in the Narmada valley. Thus there are three distinct physiographic divisions in the district, viz. The Malwa plateau, The Vindhychal range, and The Narmada valley. The Malwa plateau extends in the north from the foothills of the Vindhychal range, and covers the northern part of Bagli tahsil and all the northern tahsils.

The surface of the Malwa plateau is generally undulating in the river valley but is marked by knolls and offshoots of the Vindhychal along the water divides. The Plateau is drained by Kali sindh, Chhoti Kali Sindh and Kshipra rivers. The Narmada valley extends from east to west and occupies the southern part of the district.


Location and District Administrative Map is enclosed as Plate No-1&2.


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

**DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING**

2. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

Land and water are the basic aspects of development of any economy. Economic development is the output of development of these natural resources in a sustainable manner. District is well endowed with fabulous amount of building material like sand, Stone (Gitti), Lime kankar, Marble and Murum. In all a sum total of 162 quarry leases including 28 sand quarries, have been sanctioned in the Dewas district of M.P. having a sum total of 422hectare area, which is 0.06%of the area of the district, and fetches 100 crores of revenue during 2019-20 to 2021-22.


State Level Environment Impact
Assessment Authority, M.P.
(ERCO)
Parvati Park Parisar
E-5, Anara Colony, Bhopal (M.P.)

DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING

3. GENERAL PROFILE OF THE DISTRICT

S. No	ITEM	STATISTICS	
1	GENERAL INFORMATION		
	i) Geographical area (sq. km)	7020.84	
	ii) Administrative Divisions (As on 2011)		
	Number of Tehsil	6	
	Number of Blocks	6	
	Number of Panchayats	497	
	Number of Villages	1127	
	iii) Population (Census 2011)	289438	
	iv) Normal Rainfall (mm)	1083	
2	GEOMORPHOLOGY		
	i) Major Physiographic Units	1. Dewas Plateau	
		2. Kali Sindh Basin	
		3. Vindhyan Range	
		4. Middle Narmada Valley	
	ii) Major Drainage	Kshipra sub-basin	
		Kali Sindh sub-basin	
		Chotti Kali Sindh sub-basin	
		Kanhar sub-basin	
		Khari sub-basin	
		Datuni sub-basin	
		Jamner sub-basin	
		Narmada direct catchment	
3.	LAND USE (ha.)		
	i) Forest area:	206600	
	ii) Net area sown:	388400	
	iii) Cultivable area:	624500	
4.	MAJOR SOIL TYPES	Black cotton, Sandy loam, Clayey loam, Murram	
5.	AREA UNDER PRINCIPAL CROPS	Wheat, Soyabean, Groundnut, Cotton, etc	
6.	IRRIGATION BY DIFFERENT SOURCES	No of Structures	Area (ha)
	Dug wells	36531	65900
	Tube wells/Bore wells	23119	93100
	Tanks/Ponds	169	4760
	Canals	15	6760
	Other Sources		11044
	Net Irrigated Area		193640
7.	NUMBER OF GROUND WATER MONITORING WELLS OF CGWB (As on 31.3.2013)		
	No. of Dug Wells	16	

DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING

	No. of Piezometers	11
8.	PREDOMINANT GEOLOGICAL FORMATIONS	Deccan trap lava flows
9.	HYDROGEOLOGY	
	Major Water Bearing Formation (Pre-monsoon depth to water level during 2012)	Weathered/Fractured Basalt 2.90 - 24.47 mbgl
	(Post-monsoon depth to water level during 2012)	0.06 - 15.19 mbgl
	Long Term water level trend in 10 years (2003- 2012) in m/yr	0.007 to 2.74 m (Rise) 0.109 to 0.27 m (Fall)
10.	GROUND WATER EXPLORATION BY CGWB (As on 31.3.2012)	
	No of wells drilled (EW,OW,PZ,SH, Total)	EW-32, PZ-12, Total -44
	Depth Range (m)	150m - 200m
	Discharge (litres per second)	1 - 5.28lps
	Storativity (S)	-
	Transmissivity (m ² /day)	5-40 m ² / day
11.	GROUND WATER QUALITY	
	Presence of Chemical constituents more than permissible limit (eg EC, F, As,Fe)	Fluoride
	Type of Water	Alkaline earth- bicarbonate
12.	DYNAMIC GROUND WATER RESOURCES	
	Net annual Ground Water availability	79141
	Gross Annual Ground Water Draft for all uses	63383
	Projected Demand for Domestic and Industrial Uses upto 2033	3449
	Stage of Ground Water Development	80 %
13.	EFFORTS OF ARTIFICIAL RECHARGE & RAINWATER HARVESTING	
	Projects completed by CGWB (No.)	4
	Projects under technical guidance of CGWB (Numbers)	5
14.	Ground Water Control and Regulation	
	Number of OE Blocks	02 (Dewas & Sonkutch)
	Number of Semi-Critical Blocks	01 (Khategaon)
	Number of Notified Blocks	Nil


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

DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING

4. GEOLOGY OF THE DISTRICT

4.1 Regional Geology

The oldest rocks of the district are basement granite, granitic gneisses etc. Exposed mainly in the eastern part of the district. The porphyritic granite has been found in an area near village Rajor and Chandwana Quartzite occurs as thin bands in granitic gneisses especially near village Bandariya, Narayanpura. Dolerite as an intrusive rock is widely exposed at many places, well developed columnar joints are developed near village Pipri in the proximity of Narmada River.

The Bijawars which are exposed mostly in the southern part of the district are represented by Dolomite, cherty breccia and Quartzite.

The Bijawars are overlain by the rocks of Vindhyan Supergroup comprising Sandstone, Shale, Quartzite and Conglomerate. The Vindhyan are exposed mostly in the southern and south-western part of the district. The Vindhyan near the village Potla is intruded by a big basic dyke. In this dyke columnar joints are very well developed. In Potla, Hexagonal, Pentagonal columns occur horizontally and are disposed in such a beautiful manner, that they have become a spectacular sight and are unique in nature.

Lameta beds comprised of calcareous sandstone and siliceous limestone and exposed near villages Ambara, Ratway, Udainagar, Mirzapur etc. Silica sand is presently exploited from this bed.

The major part of the district covered by Deccan trap basalt. In the district trap covers the northern part, which includes Dewas, Bagali and Sonkatch tehsils.


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

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STRATIGRAPHY

Age	Formation	Rocks
Recent and Pleistocene		Older and Later Alluvium
Upper Cretaceous to Eocene	Deccan Trap	Different lava flows
Cretaceous	Lametas	Buff to yellow colored sandstone
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^	^^^^^^Unconformity^^^^^^	^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
Late Pre-Cambrian	Vindhyaans	Kanar Sandstone, Quartzite's, Shale, Siltstone and Dykes Dolomite, Chert and Quartzite
	Bijawars	
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^	^^^^^^Unconformity^^^^^^	^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
Archeans	Basic Gneissic Complex	Granite, Granitic gneisses, Schists, Phyllite, Basic/ Acid Intrusive

Source :GSI


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4.1.1 ARCHEANS:

The Archean rocks are the oldest formation, which are forming the basement of the area. They occur as inliers under exposed beneath the sedimentary rocks of Bijawar group, Vindhyan group and also the flows of Deccan Trap. The archeans generally are represented by metamorphic ledge rocks now occur as xenoliths within younger granitoids. The metamorphosed sedimentary rocks are represented by Calc-Chlorite-Phyllite, Quartzite etc. The Phyllites are rich in quartz and have generally well developed foliation. Quartzite occurs as discontinuous bands within phyllite with gradational contact. This rock is dirty white in color and medium to fine grained, large patches of pyroxene, hornblendite which are older than granite as present in the beds of Kanar river in Semlikala village. Unfoliated and massive granitoids is exposed over a large area around Khategaon, in Satwas reserve forest and also as smaller patches in SE of Kannod reserve forest, NE of Kantafor and near Udainagar and Kishangarh. The granite is medium to coarse grained generally with little ferro-magnesium minerals. They are pink grey and occasionally intense structural disturbance. The rocks are folded with high dip and are affected by different phases of tectonism.

4.1.2 BIJAWARS

Bijawar group of rocks occur unconformably over the Archeans. They are represented by dolomite, quartzite and cherty breccia. The main rock type of the group is dolomite which covers extensive area east of Kanar river and south of Udainagar. Further east the dolomites are exposed overlying chert breccia. Dolomites are pink to grey in color and are fine grained. The rocks weather peculiarly and have rough pointed and hardly cut up surface giving the appearance of an elephant skin. Dolomite has been traversed by lenses and ribbons of quartz, which are hard, compact and ferruginous. Chert breccia is most extensive horizon between the Kanar and Khari river. This is also extensively exposed in the area south of Undel and Nimanpur. These rocks are composed of angular pieces of chert, quartz and some times quartzite within silicified cherty matrix. The Bijawar sedimentary rocks generally trend NE to SW and ENE to WSW with dip varying between 350 to 550.


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4.1.3 VINDHYANS:

The Kanar sandstone formation which forms part of Vindhyan super group and is similar in character to sandstone of Rewa group lie unconformable on the Archeans and Bijawar rocks. The Kanar sandstone formation was laid down on uneven post-Bijawar surface as a result of which the Bijawar rocks sometimes protrude through rocks of Kanar sandstone formation. In the district this sandstone covers a large part of the Narmada valley in the areas covered by Nimanpur reserved forest, Kaneri forest and part of Satwas forest.

They fall in Kantaphor, Punjapura and Udainagar forest ranges. The sandstone, which forms the major part of this formation, is fine to medium grained, light brown, pink and purple colored. Streaks of gritty sandstone and conglomerate are also present. This sandstone forms the upper part of the flat-topped hills and ridges while pink and brownish, but also greenish to purplish shale and siltstone occupy the lower grounds. The sandstone is generally well bedded. The Kanar sandstone formation does not show any intense structural disturbance but show open warping resulting in broad elongated flat domes and basins with comparatively steeper sides, where the dip varies from 90 to 120. The comparatively smaller domes and basins appear to form part of a larger region of domes and basins. A number of basaltic dykes occur in E-W direction through the Vindhyans. Small patches of lava flow are also seen e.g. near Potla village and they form a chain of hillocks resulting from the intrusions. These are hexagonal or polygonal, dark steel grey and sound like metal on hammering.

4.1.4 CRETACEOUS

The younger sedimentaries represented in a small area by Katkut sandstone formation are considered to be of Intra-trappean cretaceous age. The major exposure of Katkut sandstone formation covers a flat area of 60 km² around Katkut village. This formation occurs unconformably over the Bijawar group of sedimentaries and the Kanar sandstone formation. These formations consist of gritty sandstone, streaks of conglomerate between the sandstone and the trap. The sandstone is medium to coarse grained, white to pink in color with red streaks and mottling. At places they are calcareous and ferruginous and contain pieces of cherty material or gritty limestone. Sometimes they are very friable. Bedding is not clear in

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Katkut sandstone and joints are generally absent. These sedimentary bed rocks are generally almost horizontal with local dips up to 60. The upper surface is frequently quartzitic due to its contact with overlying trap rocks.


4.1.5 DECCAN TRAP

The district comprises of basaltic lava flows in three fourth of its area in the north and forming the part of Malwa plateau. The basalts also occupy some area in the Narmada valley in the south. The different trappean flows are well distinguished at many places by presence of Inter-trappean horizons and red colored shale bands known as red boles between the flows. Inter trappean beds consisting of impure siliceous limestone, chert and sometime clays. The detached and scattered patches of lava flows overlies the pre-existing rocks are also present, in the south of Udainagar area. Near Potla village, the huge pieces or blocks of basalt bounded wholly by joints and have a rhomboidal shape like a beam or rods have developed due to effect of columnar joints.

4.1.6 RECENTS

Deep alluvium deposits are found along the Narmada River. The lower strata consist of older Alluvium or the buried alluvium. The alluvium also occurs along the tributary streams and foot of the Vindhyan scarps below the boulder beds. The basaltic areas are mostly covered with black cotton soil whereas the reddish, brownish colored ferruginous soil is present at some places in Narmada valley.

Geological Map is enclosed as Plate No-3


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5. DRAINAGE OF IRRIGATION PATTERN

The District lies in the drainage systems of the Narmada and the Ganga. Vindhyan hills above the scarp form the water divide line between the two drainage systems. The Narmada itself flows along the greater part of the southern boundary of the District, and receives the Kanar, the Khari, the Datuni, the Bagli and the Jamner. The north flowing rivers, namely, the Kali Sindh, the Chhoti Kali Sindh and the Shipra, join the Ganga through the Chambal. The tributary streams of the Narmada do not maintain their flow beyond the month of November but have several perennial pools along their beds. The north flowing streams of the Malwa flow for a few months more. The floods are sudden and violent in all the streams. The general drainage pattern of the area is of dendritic type.

1.4.1 The Narmada

The Narmada rises from the western flank of the Amarkantak plateau on the Maikala range. The source is marked by a sacred tank, at 22° 40' N and 81° 46' E in Anuppur district. The stream falls at Kapildhara and meanders through the hills of Mandla and Jabalpur districts. It has a picturesque gorge cut through the magnesian rocks, called Marble Rocks, near Jabalpur. The cliff of the Marble rocks was measured 40.5 m. (133 ft.) from the water level on the 16th December, 1965'. Visitors find pleasure in boating in moon lit nights. The river forms the boundaries of Narsimhapur, Hoshangabad, East-Nimar and West-Nimar on the left and Raisen, Sehore, Dewas, Dhar and Jhabua districts of Madhya Pradesh on the right bank.

The important tributaries of the Narmada are the Banjar, the Sher, the Shakkar, the Dudhi, the Ganjal, the Tawa, the Chhota Tawa, and the Kaveri on the left bank in Madhya Pradesh. The right bank tributaries are the Hiran, the Barna, the Jamner, the Datuni, the Khari, the Kanar, and the Choral. The left bank tributaries have wider catchment areas and are more important. The Karanjan, the Orsang, the Amravati and the Bhukhi are the tributaries in the lover plain, Shukla Tirth is an important pilgrim centre at the confluence of the Kaveri. The course of the Narmada is about 1290 km. of which about 70 km. marches along the Dewas District boundaries.


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1.4.2 The Kali Sindh

It rises from the Vindhya range (723 metres) at 22° 35' N. 76° 20' E. and flows to the north. It traverses the northern part of Bagli tahsil, and Sonkatch tahsil. Further it flows in Shajapur District and receives the Lakhandar on the left bank. The Kali Sindh is one of the principal tributaries of the Chambal, its course in this District is about 70 km. It is a typical river of the Malwa Plateau with long narrow valley parallel to many others on the trap bed. The channel is deep and the flow seasonal. Sundersi, Kall Sindh and Jhalawar are located on its banks. The Chhoti Kall Sindh The Chhoti Kali Sindh rises from the vicinity of Dewas, a few kilometres to the north-east. It flows to the north-west in the districts of Dewas, Ujjain and Jhalawar (Rajasthan State) before it joins the Chambal.

1.4.3 The Shipra

The river is variously spelt as the Sipra, Shipra, Kshipra or Avantinadi. The sacred village Shipra is situated on it. The river is said to have sprang from the blood of Vishnu. It rises from Kakri Bardi hill (747.06 m.), about 11 km. south-east of Indore.

It flows to the north-east in that district for 21 km. but turns to the north-west after reaching the western boundary of Dewas. Here its course is about 56 km. on the Trap. Later it receives the Khan, and then joins the Chambal. Ujjain is located on the right bank of the Shipra. Its waters flow into the Ganga.

Ground water is the main source of irrigation and accounts for 82% of the irrigation. Other sources and ponds contribute a small amount -18%. Only 50% of the net sown area is irrigated. Thus 50% sown area is rainfed.

Drainage Map is enclosed as Plate No-4


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**6. LAND UTILIZATION PATTERN IN THE DISTRICT: FOREST,
AGRICULTURE, HORTICULTURE, MINING ETC**

L1	L2	Area in Sq Km	Area Percentage
Agriculture	Crop land	4472.42	63.71 %
	Crop land Current Shifting cultivation		
	Fallow	38.28	0.55 %
	Plantation	0.11	0.002 %
Barren/unculturable/ Wastelands	Barren Rocky	1.83	0.03 %
	Gullied / Ravinous Land	4.78	0.07 %
	Rann		
	Salt Affected Land		
	Sandy Area		
	Scrub Land	218.24	3.11 %
Builtup	Mining	7.42	0.11 %
	Rural	91.86	1.31 %
	Urban	44.12	0.63 %
Forest	Deciduous	1580.79	22.52 %
	Evergreen/Semi evergreen		
	Forest Plantation		
	Scrub Forest	459.46	6.55 %
	Swamp / Mangroves		
Grass / Grazing	Grass / Grazing		
Snow and Glacier	Snow and Glacier		
Wet lands / Water bodies	Inland Wetland		
	Coastal Wetland		
	River/Stream/Canals	34.37	0.49 %
	Water bodies	66.33	0.94 %

Source: NRSC

Land use Land Cover Map is enclosed as Plate No-5


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7. SURFACE WATER AND GROUND WATER SCENARIO OF THE DISTRICT


The district falls under two major drainage basins - the Ganga in the north and the Narmada in the south. The rivers are rivers of antiquity. They have broad, flat, shallow valleys with low imperceptible gradients, because their channels have reached the base level of erosion. Vertical erosion has ceased and lateral erosion is taking place.

Hydrogeology - Aquifer System and Aquifer Parameters

Archaean: These rocks are basically hard and compact with no primary porosity. Ground water occurs in these in the secondary porosity created by weathering, jointing and fracturing. The intensity and depth of weathering and the frequency of joints and fractures control the ground water potential. These formations form poor to moderate aquifers. The depth of weathered mantle varies from a thin film to about 15m in topographic lows. The joints and fractures close down below 25 to 30 m. Ground water occur under water table conditions. These rocks mostly support dug wells with a few tube wells at some places. The tube wells yield 1-2 lps for considerable draw downs. The dug wells range in depths between 5 - 15 m and 2- 8 m in diameter. Open wells yield about 8 lps on an average for about 2 - 3 hours of pumping.

Bijawar: These rocks are impervious and devoid of joints and fractures. The weathering in these rocks is limited to the upper surface only between 10 to 25 m. Ground water occurs in the weathered portions under water table conditions with limited potential. Dug wells are generally constructed with depths between 8 - 16 m and diameters of the order of 3 - 8 m. The open wells yield about 1 lps or less.

Vindhyan: The Vindhyan sandstones have primary porosity, but this depends on the degree of compaction. It could vary from impervious to as high as 30%. Hence again ground water availability is controlled by secondary porosity generated by weathering, jointing and fracturing. Lineaments and their intersections are holders of ground water, which occurs under water table conditions. The open wells may yield about 1 lps or less.


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Bagh Beds: These form unconfined aquifers when the sandstone and conglomerate are rendered permeable due to secondary porosity. But as these formations occupy a very small area in the district they are not significant.

Deccan Trap: These form the most important aquifers due to the large aerial extent in the district. The district is covered by a large number of basaltic lava flows. The weathered, jointed, fractured or vesicular unit of each flow forms moderately potential aquifers. The zeolitic basalt when weathered also forms potential aquifers. The Red Bole is unproductive but forms a confining layer and also indicates the presence of a productive horizon below. Dug wells in this formation range in depth from 4 - 22 m having diameters between 2 - 11m. Ground water occurs mainly under water table conditions. The discharges vary from 13 - 29 m³ /hr for small draw down, less than 1.7m. The specific capacity ranges from 26 - 170 lpm/m of draw down. It is high in highly weathered basalt, widely variable in weathered basalt and low in jointed massive basalt. The yields are mostly upto 5 lps, being higher, 10 - 12 lps in some cases; the yields are higher in Khategaon block. In multiple flow areas ground water is also found under semi confined to confined conditions sustaining tube wells.

Alluvium: The alluvium forms good aquifers wherever sufficiently thick. But the occurrence of alluvium in the district is limited and thickness is only between 10 - 25 m. Ground water occurs under water table conditions.

Hydrogeological Map is enclosed as Plate No-6

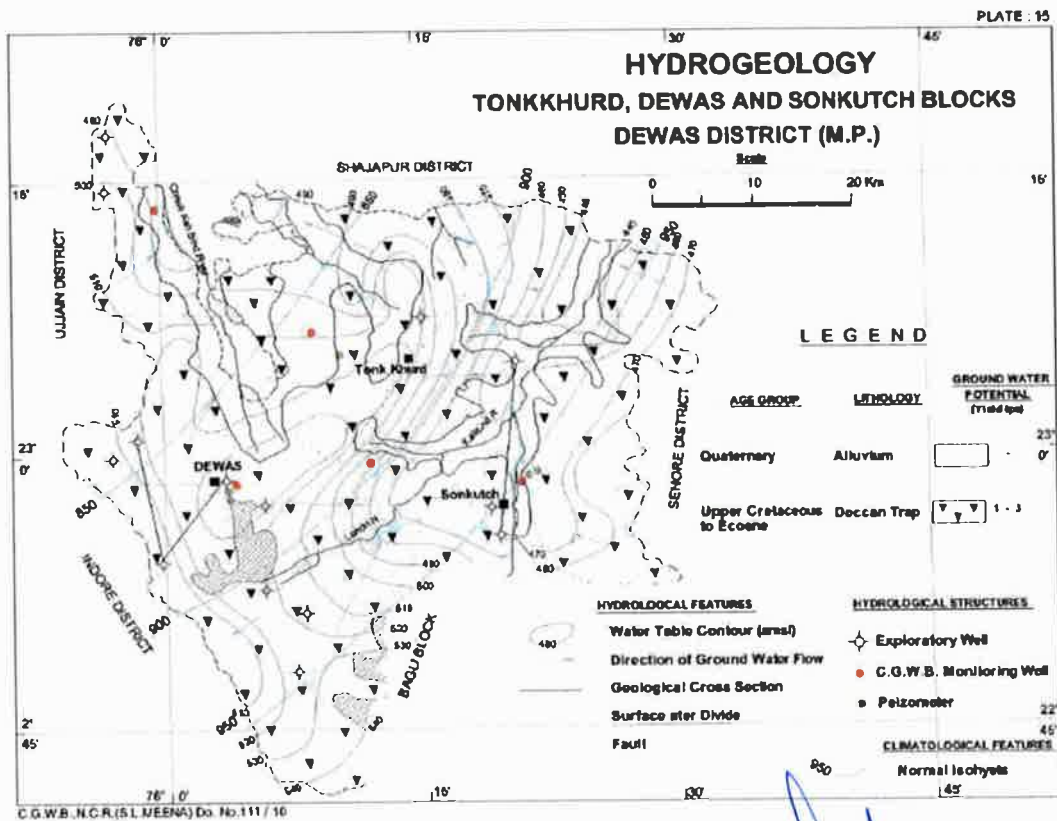
WATER LEVELS: Ground water levels form a very important parameter of the ground water system, as these are its physical reflection. The groundwater balance expresses itself in the change in water levels; hence a continuous record is important and useful. CGWB has 16 National Hydrograph Stations (NHS) and 11 Peizometers in Dewas district. Due to large-scale ground water development the dug wells are drying up.

Pre-monsoon (May 2012) Depth to water level during pre-monsoon, 2012 ranged between 2.90m bgl at Pipri and 24.47m bgl at Bhaurasa. Water levels, in general fall between 5 - 20 m bgl. Shallow water levels of less than 5 m bgl occur in a patch in the south-western part of the district falling in Bagli and Kannod blocks. Deeper water levels, more than 20 m occur in

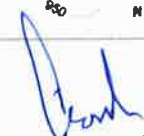
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Sonkach, Tonk Khurd and Dewas blocks. In Dewas, Sonkach and Tonk khurd blocks wells are fast drying up perhaps due to higher ground water development.

Post-monsoon (November 2012) During post-monsoon period of the same year, November 2012, the water levels varied from 0.06m bgl at Dhayali to 15.19m bgl at Bhonrasa. The water level, in general lies between 2 to 10 m bgl during this period. Shallow water levels, less than 5 m bgl occur in a large central part of the district covering parts of Bagli, Kannod & Khategaon blocks. Deep water levels above 10 m bgl occur in the northern part in Dewas, Sonkach, eastern part of Khategaon and northern part of Tonk khurd blocks.



Source: CGWB


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8. RAINFALL OF THE DISTRICT AND CLIMATIC CONDITION

The average annual rainfall of Dewas district is 1083 mm, based on average of 3 stations. Rainfall increases from west to east and is lowest in the southwestern portion. About 90 % of the rainfall takes place from June to September, only 5 - 8% takes place in the winter months and only about 2% in summer. It is only during the monsoon that surplus water for deep percolation is available in the district. The normal rainfall follows a normal distribution during the year. The climate of Dewas district is semi-tropical, characterised by hot summer and well distributed rainfall during the south west monsoon season. January is the coldest month with the temperature falling as low as 2° - 3°C. The period from March to first week of June is the summer season. May is the hottest month when the temperature may go upto 45°C.

Monthly rainfall (in mm) trends for Dewas from 01-Jan-2017 to 31-Dec-2021

Month	Rainfall (mm)		Rainfall (mm)		Rainfall (mm)		Rainfall (mm)		Rainfall (mm)	
	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month
Jan-17	Jan-18	Jan-19	Jan-20	Jan-21	Jan-21	Jan-21	Jan-21	Jan-21	Jan-21	Jan-21
Feb-17	Feb-18	Feb-19	Feb-20	Feb-21	Feb-21	Feb-21	Feb-21	Feb-21	Feb-21	Feb-21
Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-21	Mar-21	Mar-21	Mar-21	Mar-21	Mar-21
Apr-17	Apr-18	Apr-19	Apr-20	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21	Apr-21
May-17	May-18	May-19	May-20	May-21	May-21	May-21	May-21	May-21	May-21	May-21
Jun-17	Jun-18	Jun-19	Jun-20	Jun-21	Jun-21	Jun-21	Jun-21	Jun-21	Jun-21	Jun-21
Jul-17	Jul-18	Jul-19	Jul-20	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21	Jul-21
Aug-17	Aug-18	Aug-19	Aug-20	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21
Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	Sep-21	Sep-21	Sep-21	Sep-21	Sep-21	Sep-21
Oct-17	Oct-18	Oct-19	Oct-20	Oct-21	Oct-21	Oct-21	Oct-21	Oct-21	Oct-21	Oct-21
Nov-17	Nov-18	Nov-19	Nov-20	Nov-21	Nov-21	Nov-21	Nov-21	Nov-21	Nov-21	Nov-21
Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Dec-21	Dec-21	Dec-21	Dec-21	Dec-21	Dec-21
Total	847.81	762	1586.99	1361.81	1361.81	1361.81	1361.81	1361.81	1361.81	938.25

Source: IMD Grid

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9. DETAILS OF THE MINING LEASES IN THE DISTRICT

S.NO.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining Lease Grant Order No. & Date	Area of Mining Lease (ha)	Period of Mining lease (Initial)		Date of commencement of Mining Operation	Status (Working / Non-Working / Terms, Working for dispatch)	Captive / Non-Captive	Obtained Environmental Clearance (Yes/No) If Yes Letter No with date of grant of EC	Location of the Mining Lease (Latitude & Longitude)		Method of Mining (Opencast / Underground)
						From-To	From-To					15	16	
1	Stone	Shri Babu Lal s/o Ambaram Parwala	91 Sukh nivas indore	903 - Date 29/06/2009	3.74	13/07/2019 to 12/07/2029	13/07/2019 to 12/07/2029	30-10-10	Working	Non-Captive	(Yes) 45 / 08-06-2016	22° 43' 29.97" N 76° 07' 17.48" E	Opencast	
2	Stone	Smt. Asha W/O Shri Sunil Parwala,	91 Sukh nivas indore	964 - Date 03/07/2009	4	15/07/2019 to 14/07/2029	15/07/2019 to 14/07/2029	30-10-10	Working	Non-Captive	(Yes) 44 / 08-06-2016	22° 43' 29.97" N 76° 07' 17.48" E	Opencast	
3	Stone	Shri Jitendra Singh Panhar	Gram - Bajeppur	497 - Date 21/03/2016	1	24/03/2016 to 23/03/2026	-	02-02-17	Working	Non-Captive	(Yes) 23 / 18-05-2016	22° 57' 29.14" N 76° 11' 04.29" E	Opencast	
4	Stone	M/s Maa Lakshmi StoneCrusher Proprietor Shri Manish Thakur	Gram - Panda Tah - Indore Dist - Indore	863 - Date 17/05/2016	2.77	19/05/2016 to 18/05/2026	-	01-02-17	Working	Non-Captive	(Yes) 01 / 17-05-2016	22° 57' 29.14" N 76° 11' 04.29" E	Opencast	
5	Stone	Shri Sanjay Singh S/o Suraj Singh Coud	Radha Ganj Dewas	961, Date 02/06/2016	2.7	13/06/2016 to 12/06/2026	-	23-12-17	Working	Non-Captive	(Yes) 39 / 01-06-2016	22° 54' 35.63" N 76° 10' 34.10" E	Opencast	
6	Stone	M/s Trading Company Shri Indrajeev Singh Bais	Sonbatch	625, Date 11/04/2017	4	13/04/2017 to 12/04/2027	-	23-07-19	Non-Working	Non-Captive	(Yes) 130 / 01-04-2017	22° 53' 29.97" N 76° 07' 17.48" E	Opencast	
7	Stone	M/s K.N Developers & Builders PVT LTD	Vijay Nagar Indore	113 - Date 22/06/2017	4.9	16/06/2017 to 25/06/2027	-	11-12-17	Working	Non-Captive	(Yes) 137 / 16-06-2017	22° 50' 6.54" N 76° 7' 54.30" E	Opencast	
8	Stone	Parmendra singh S/o Gajraj Singh	Gram Shankargadh Tah Dewas Dist - Dewas	1726, Date 04/09/2017	4	22/09/2017 to 21/09/2027	-	27-08-20	Working	Non-Captive	(Yes) 138 / 17-06-2017	22° 54' 35.63" N 76° 09' 58.03" E	Opencast	

Sl. No.	Material	Contractor Name	Gram - Gujrat Bapchaya Tah Devas Dist - Devas	2163.Date 28/09/2017	1.99	21/11/2017 to 20/11/2027	13-01-19	Working	Non-Captive	(Yes) 110 / 11-01-2017	Opencast
9	Stone	Smt. Idu Khan W/o Munir Khan	Gram Rajoda Tah Devas Dist - Devas	26.Date 05/01/2018	5.53	10/11/2018 to 09/01/2028	13-02-19	Working	Non-Captive	(Yes) 198 / 26-12-2017	Opencast
10	Stone	Vishyret singh S o Tanwar Singh Choubhan	Gram Rajoda Tah Devas Dist - Devas	492.Date 03/04/2018	3	04/04/2018 to 03/04/2028	22-01-19	Non-Working	Non-Captive	(Yes) 211 / 28-03-2018	Opencast
11	Stone	Shri Pappu Chandra S o Prathvi Chandra Goud	Gram Shantkargadi Tah Devas Dist - Devas	517.Date 06/04/2018	3	06/04/2018 to 05/04/2028	30-12-19	Non-Working	Non-Captive	(Yes) 214 / 03-04-2018	Opencast
12	Stone	Praveen S o Niranjan Shrivastava	6 Forest Colony Devas	518.Date 06/04/2018	2	06/04/2018 to 05/04/2028	16-07-19	Working	Non-Captive	(Yes) 215 / 03-04-2018	Opencast
13	Stone	Smt. Avamitba S o Lavman Girwal	1/2 Civil Line Devas	1147.Date 02/07/2018	2	07/07/2018 to 06/07/2028	27-10-18	Working	Non-Captive	(Yes) 230 / 26-06-2018	Opencast
14	Stone	M/S. S. D. Infr. Partner Shubham Shukla S o Avadh Narayan Shukla	Indore	1451.Date 16/08/2018	4.25	21/08/2018 to 20/08/2028	02-11-20	Working	Non-Captive	(Yes) 244 / 14-08-2018	Opencast
15	Stone	Shri Mahendra S o Valjibhai Patel	Gurmat	1449.Date 14/08/2018	2	23/08/2018 to 22/08/2028	20-12-16	Working	Non-Captive	(Yes) 230 - 14-08-2017	Opencast
16	Stone	Shri Shalendra Singh S o Shivraj Singh Goud	Shupra	1453.Date 16/08/2018	1.06	01/09/2018 to 31/08/2028	25-11-18	Working	Non-Captive	(Yes) 246 / 14-08-2018	Opencast
17	Stone	M/s. Tulsi Stone Crusher	Gurmat								

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18	Stone	M/s S B A Stone Pvt Ltd Partner Shri Bane singh S/o Keshar Singh	Gram - Panda Tah - Indore Dist - Indore	930, Date 17/11/2020	2.5	05/12/2020 to 04/12/2030	09-07-21	Working	Non-Captive	(Yes) 3460 / 22-11- 2020	22°52'29.43"N 76°11'59.60"E 22°52'29.60"N 76°11'58.61"E 22°54'01.02"N 76°07'49.89"E 22°54'05.16"N 76°07'49.80"E 22°54'08.14"N 76°07'49.74"E 22°54'07.70"N 76°07'50.82"E 22°54'07.81"N 76°07'51.00"E 22°54'06.56"N 76°07'54.08"E 22°54'09.81"N 76°07'51.60"E 22°54'09.30"E 22°54'09.27"E 22°54'09.63"E 22°54'09.19"N 22°54'09.49"E 22°56'05.30"N 76°07'49.84"E 22°56'07.73"N 76°07'41.34"E 22°56'07.51"N 76°07'42.10"E 22°56'12.36"N 76°07'43.84"E 22°56'12.42"N 76°07'43.09"E 22°56'14.04"N 76°07'46.82"E 22°56'12.69"N 76°07'44.53"E 22°56'08.53"N 22°06'49.34"N 74°59'24.61"E 22°06'49.26"N 74°59'29.40"E 22°06'53.04"E 74°59'30.51"E 22°06'49.314"N 74°59'30.464"E 22°06'49.913"N 74°59'32.210"E 22°06'45.844"N 74°59'31.986"E 22°06'41.311"N 74°59'29.145"E 22°06'46.242"N 74°59'29.127"E 22°06'46.100"N 74°59'24.715"E 22°06'12.11"N 76°10'58.67"E 22°06'12.27"N 76°11'00.27"E 22°06'13.87"N 76°11'02.77"E 22°06'13.77"N 76°11'02.87"E 22°06'09.11"N 76°11'03.67"E 22°06'08.57"N 76°11'03.37"E 22°06'07.47"N 76°10'58.77"E 22°06'08.57"N 76°10'59.40"E 22°06'14.62"N 76°11'03.18"E 22°07'29.11"N 76°11'01.28"E 22°07'11.26"N 76°10'56.02"E 22°06'15.52"N 76°10'58.01"E 22°06'16.39"N 76°10'40.92"E 22°06'14.61"N 76°10'42.80"E 22°06'13.61"N 76°10'44.38"E 22°06'13.60"N 76°10'46.12"E 22°06'11.17"N 76°10'43.72"E 22°06'10.74"N 76°10'44.42"E 22°54'53.96"N 76°25'53.67"E 22°54'53.57"N 76°25'54.56"E 22°54'51.22"N 76°25'51.08"E 22°54'50.17"N 76°25'53.24"E 22°54'52.64"N 76°25'54.39"E	Opencast
19	Stone	Shri Jitendra Singh Panhar	Gram - Kavdi Tahsil Dist - Deवास	862, Date 07/11/2020	1.91	28/11/2020 to 27/11/2030	04-09-21	Working	Non-Captive	(Yes) 2279 / 16-11- 2021	Opencast	
20	Stone	T N C Enterprises Parmer - Jitendra Singh Chouhan	Gram - Piyadambar Tah - Indore Dist - Indore	929, Date 17/11/2020	4.69	02/12/2020 to 01/12/2030	21-06-21	Working	Non-Captive	(Yes) 4311 / 27-10- 2020	Opencast	
21	STONE	Gawar Construction Ltd. Adhikrit Hasinkshari Shri Praveen Rawal	Hisar (Haryana)	2005, Date 27/09/2021	3.13	08/11/2021 to 07/11/2031	18-11-21	Working	Non-Captive	(Yes) 2131 / 01-10- 2021	Opencast	
22	Stone	Shri Guler, S/o Luvankat Qureshi Add 9 Tilak Nagar Dewas	9 Tilak Nagar Dewas	889, Date 25/05/2016	2.832	17/06/2016 to 16/06/2026	15-07-21	Working	Non-Captive	(Yes) 1913 / 17-09- 2021	Opencast	
23	Stone	Shri Hemendra S/o Dhansingh Thakur	Gram - Bhourasa Tah Sonkatch	1144, Date 20/06/2016	2.832	29/06/2016 to 28/06/2026	03-04-17	Non-Working	Non-Captive	(Yes) 03 / 18-05- 2016	Opencast	
24	Stone	Shri Sarfraz S/o Mornuddin	Islampur Dewas	573, Date 31/03/2017	2.5	21/04/2017 to 20/04/2027	07-10-20	Working	Non-Captive	(Yes) 117 / 23-03- 2017	Opencast	
25	Stone	Shri Jitendra Singh S/o Bhagvat Singh	Gram - Choubaradhira Tah - Sonkatch	550, Date 28/03/2017	2.74	04/04/2017 to 03/04/2027	25-08-18	Non-Working	Non-Captive	(Yes) 111 / 11-01- 2017	Opencast	

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26	Stone	Shri Mahipal Singh Baghel	M G Road Sonkatch	1180, Date 19/06/2017	1	30/06/2017 to 29/06/2027		27-02-18	Working	Non-Captive	(Yes) 10627 / 10-12-2018	76.1656.97E 76.1656.67E 76.1655.67E 76.1653.27E 76.1653.97E 76.1653.97E 76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
27	Stone	Shri Vipin S/o Ramesh Chandra Sharma	47, Mon Bangla Devas	1333, Date 18/07/2017	3	31/08/2017 to 30/08/2027		04/11/19	Working	Non-Captive	(Yes) 112 / 11-01-2017	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
28	Stone	Shri Pamendra S/o Garraj Singh	Gram - Shankargadh Tah-Devas Dist - Devas	2162, Date 28/09/2017	2	31/10/2017 to 30/10/2027		28-02-20	Working	Non-Captive	(Yes) 120 23-03-2017	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
29	Stone	M/s Bhumi Mines Proprietor Jeevan Yadav	Gram - Shankargadh Tah-Devas Dist - Devas	2150, Date 28/09/2017	4	29/11/2017 to 28/11/2027		05-10-19	Working	Non-Captive	(Yes) 141 17-06-2017	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
30	Stone	Shri Krupal Singh S/o Harmath Singh	Gram - Agra Tah - Sonkatch	740, Date 10/06/2019	1	29/01/2020 to 28/01/2030		25-12-21	Working	Non-Captive	(Yes) 597 / 15-05-2019	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
31	Stone	M/s Bahju Developers Sumit Mittal	7 A B J Vihar Indore	573, Date 13/04/2015	3 31	06/05/2015 to 05/05/2025		06-06-15	Working	Non-Captive	(Yes) 3065 / 14-01-2015	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
32	Stone	Shri Manish S/o Shri Mahendra Pandar	Gram - Limboda	1451, Date 16/08/2018	1	23/08/2016 to 22/08/2026		02-04-17	Working	Non-Captive	(Yes) 244 / 14-08-2018	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
33	Stone	Shri Manoj S/o Mehanlal Prajapati	Gram - Nevan	672, Date 20/04/2017	1	23/05/2017 to 22/05/2027		01-08-19	Non-Working	Non-Captive	(Yes) 132 / 01-04-2017	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
34	Stone	Shri Praveen S/o Yogendra Singh Patel	Gram Mehwada, Tahsil - Jawar Dist - Shihor	491, Date 03/04/2018	1 7	07/04/2018 to 06/04/2028		12-10-18	Working	Non-Captive	(Yes) 212 / 28-03-2018	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast
35	Stone	Shri Jaydeep S/o Shambhusingh Udayat	51, Bijasan Road Indore	2877, Date 30/12/2017	3	10/04/2018 to 09/04/2028		07-03-20	Working	Non-Captive	(Yes) 186 / 26-12-2017	76.1038.97E 76.1044.00E 76.1041.67E 76.1038.68E 76.1053.81E 76.1192.58E 76.1102.79E 76.1104.37E 76.1104.42E 76.1059.71E 76.1059.56E 76.1057.40E 76.1658.32E 76.171.37E 76.175.55E 76.171.87E 76.173.47E 76.173.96E 76.172.93E 76.1659.10E 76.2336.63E 76.2340.98E 76.2339.63E 76.2336.47E	Opencast

36	Stone	Shri Jaydeep S/o Shmhhunish Udat	51, Bijasen Road Indore	2876, Date 30/12/2017	3	10/04/2018 to 09/04/2028	06-11-20	Working	Non-Captive	(Yes) 1564 09-08-2021	22° 44' 29" N, 76° 16' 32" E 22° 44' 23" N, 76° 16' 30" E 22° 44' 21" N, 76° 16' 28" E 22° 44' 20" N, 76° 16' 26" E 22° 44' 18" N, 76° 16' 24" E	Opencast
37	Stone	Dharmendra S/o Babulal Sondhav	Gram - Guradiya Tah - Hapliya Dist - Devas	489, Date 03/04/2018	1	12/04/2018 to 11/04/2028	02-04-19	Working	Non-Captive	(Yes) 213 / 28-03-2018	22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E	Opencast
38	Stone	Shri Sunil S/o Ghanshyam Patidar	Gram - Guradiyaka Tah - Hapliya Dist - Devas	439, Date 15/06/2020	1	24/01/2020 to 23/01/2030	07-10-20	Working	Non-Captive	(Yes) 481 / 02-06-2020	22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E 22° 42' 16" N, 76° 15' 21" E	Opencast
39	Stone	Shri Sunil S/o Rameshchandra Patidar	Gram - Shivpur Mundla Tah - Hapliya Dist - Devas	711, Date 27/05/2019	2	22/06/2020 to 21/06/2030	31-07-21	Working	Non-Captive	(Yes) 2864 / 30-03-2019	22° 43' 51" N, 76° 15' 17" E 22° 43' 51" N, 76° 15' 17" E 22° 43' 51" N, 76° 15' 17" E 22° 43' 51" N, 76° 15' 17" E 22° 43' 51" N, 76° 15' 17" E	Opencast
40	Stone	M/s Balaaji Developers Sumit Mittal	7 A B J Vihar Indore	626, Date 27/08/2020	4	31/08/2020 to 30/08/2030	19-01-21	Working	Non-Captive	(Yes) 623 / 06-06-2020	22° 44' 06" N, 76° 16' 22" E 22° 44' 07" N, 76° 16' 22" E 22° 44' 07" N, 76° 16' 22" E 22° 44' 07" N, 76° 16' 22" E 22° 44' 07" N, 76° 16' 22" E	Opencast
41	Stone	Smt Monika W/o Vipin Sharma	Moti Bangla Devas	319, Date 03/04/2012	2	16/05/2012 to 15/05/2022	17-05-13	Non-Working	Non-Captive	(Yes) 2681 / 29-06-2015	23° 13' 11" N, 76° 19' 54" E 23° 13' 11" N, 76° 19' 54" E 23° 13' 11" N, 76° 19' 54" E 23° 13' 11" N, 76° 19' 54" E 23° 13' 11" N, 76° 19' 54" E	Opencast
42	Stone	Shri Babu Lal s/o Ambaram patwala	91 Sukh nivas indore	1092, Date 27/06/2015	4	03/07/2015 to 02/07/2025	07-10-17	Working	Non-Captive	(Yes) 228 / 13-04-2015	23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E	Opencast
43	Stone	Shri Ashish S/o Babu Lal Patwala	91 Sukh nivas indore	1091, Date 27/06/2015	4	03/07/2015 to 02/07/2025	07-10-17	Working	Non-Captive	(Yes) 44 08-06-2016	23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E 23° 13' 26" N, 76° 19' 54" E	Opencast
44	Stone	Shri Vijaygum S/o Prakash Gum Goswami	Devas	12199-200, Date 28/06/2014	2	14/08/2015 to 13/08/2025	24-09-15	Working	Non-Captive	(Yes) 2181 22-10-2021	23° 12' 15" N, 76° 16' 47" E 23° 12' 15" N, 76° 16' 47" E 23° 12' 15" N, 76° 16' 47" E 23° 12' 15" N, 76° 16' 47" E 23° 12' 15" N, 76° 16' 47" E	Opencast
45	Stone	Shri Firoz S/o Akbar Patel	13, Devas Road tonkhurd	1166, Date 04/07/2015	4	24/08/2015 to 23/08/2025	04-02-17	Working	Non-Captive	(Yes) 3058 / 13-03-2015	23° 11' 50" N, 76° 16' 47" E 23° 11' 50" N, 76° 16' 47" E 23° 11' 50" N, 76° 16' 47" E 23° 11' 50" N, 76° 16' 47" E 23° 11' 50" N, 76° 16' 47" E	Opencast

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46	Stone	Shri Popsingh S/o Ramsingh Sendhav	Gram Jirway: Tah. Dist - Tonkhhurd	1167, Date 04/07/2015	3	76	09/09/2015 to 08/09/2025	25-01-17	Working	Non-Captive	(Yes) 3056 / 13-03-2015	23°04'7.84"N	76°14'41.21"E	Opencast
47	Stone	Shri Himmat Singh S/o Anar Singh	Radha Ganj Dewas	1238, Date 16/09/2010	2		19/10/2015 to 18/10/2025	05-03-16	Working	Non-Captive	(Yes) 13490 / 02-12-2021			Opencast
48	Stone	Shri Rahis S/o Ibrahim Ali	17 Moti Bagla Dewas	25, Date 02/01/2016	3		05/01/2016 to 04/01/2026	14-03-17	Working	Non-Captive	(Yes) 6333 / 15-10-2015			Opencast
49	Stone	Shri Koshraj Singh S/o Arjun Singh	Mulsheri Nagar Dewas	1145, Date 20/06/2016	4		29/06/2016 to 28/06/2026	06-10-19	Working	Non-Captive	(Yes) 39 / 13-01-2016			Opencast
50	Stone	Shri Ramsingh S/o Modhsingh	Gram - Kandi: Tah. Dewas	1123, Date 15/06/2016	4		20/06/2016 to 19/06/2026	19-08-17	Non-Working	Non-Captive	(Yes) 09 / 18-05-2016			Opencast
51	Stone	M/s Uday Mines	ED Skim No. 94 Barfani Dharm Chouraha Indore	1792, Date 06/10/2016	4		27/10/2016 to 26/10/2026	31-08-17	Working	Non-Captive	(Yes) 4441 / 17-10-2017			Opencast
52	Stone	Shri Rajkumar S/o Shri Kailash Joshi	87/2 Moti Bangla Dewas	1786, Date 05/10/2016	1	5	16/11/2016 to 15/11/2026	03-04-18	Non-Working	Non-Captive	(Yes) 85 / 05-08/2016			Opencast
53	Stone	Shri Ashok Singh S/o Bhagvan Singh Goud	Radha Ganj Dewas	1790, Date 06/10/2016	4		07/12/2016 to 06/12/2026	29-09-18	Working	Non-Captive	(Yes) 87 / 05-08-2016			Opencast
54	Stone	Shri Surendra Singh S/o Soubhag Singh Goud	Radha Ganj Dewas	1791, Date 06/10/2016	4		07/12/2016 to 06/12/2026	30-09-18	Working	Non-Captive	(Yes) 72 / 25-07-2016			Opencast
55	Stone	Shri Himmat Singh S/o Anar Singh	Radha Ganj Dewas	670, Date 20/04/2017	2		23/05/2017 to 22/05/2027	30-12-20	Working	Non-Captive	(Yes) 129 / 01-04-2017			Opencast
	Stone	Shri Himmat Singh S/o Anar Singh	Radha Ganj Dewas	671, Date 20/04/2017	4		27/05/2017 to 26/05/2027	22-12-19	Working	Non-Captive	(Yes) 128 01-04-2017			Opencast

57	Stone	M/s. Uday mines	ED Skim No. 04 Barfani Dharm Chouraha Indore	2189, Date 24/11/2017	2	22/12/2017 to 21/12/2027	29-08-18	Non-Working	Non-Captive	(Yes) 179 / 17-10-2017	23°00'32.17"N 76°10'09.84"E 23°00'35.66"N 76°10'10.11"E 23°00'39.05"N 76°10'08.98"E 76°09'31.63"E 76°09'43.76"E 23°04'39.32"N 76°09'43.05"E 23°04'38.30"N 76°09'51.27"E 23°04'36.99"N 76°12'54.87"E 23°03'31.46"N 76°12'57.81"E 23°03'27.15"N 76°12'58.22"E 23°03'27.31"N 76°12'55.32"E 22°38'28.84"N 76°43'58.18"E 22°38'28.49"N 76°44'1.39"E 22°38'35.08"N 76°44'1.85"E 22°38'35.28"N 76°43'57.85"E 22°38'37.65"N 76°48'41.78"E 22°38'16.78"N 76°48'48.57"E 22°38'13.14"N 76°48'46.99"E 22°38'14.19"N 76°48'41.57"E 22°38'14.85"N 76°48'41.76"E 22°38'11.94"N 76°52'55.57"E 22°43'12.65"N 76°52'53.38"E 22°43'10.71"N 76°52'53.27"E 22°43'10.30"N 76°52'52.71"E 22°38'46.17"N 76°49'20.64"E 22°38'46.73"N 76°49'20.64"E 22°38'45.94"N 76°49'20.74"E 22°38'41.42"N 76°49'20.74"E 22°38'39.48"N 76°49'20.74"E 22°38'36.40"N 76°49'26.92"E 22°38'36.56"N 76°49'28.63"E 22°38'47.03"N 76°49'30.57"E 22°38'44.94"N 76°49'25.60"E 22°38'46.33"N 76°49'25.34"E 22°38'47.15"N 76°49'26.54"E 22°38'48.24"N 76°49'26.48"E 22°38'49.08"N 76°49'28.24"E 22°38'49.38"N 77°00'01.46"E 22°38'49.19"N 77°00'01.05"E 22°38'44.68"N 77°00'04.93"E 22°38'45.17"N 77°00'50.26"E 22°38'48.31"N 77°00'59.61"E 22°38'48.35"N 77°00'01.28"E 22°38'45.64"N 76°49'23.26"E 22°38'47.67"N 76°49'23.30"E 22°38'46.01"N 76°49'23.43"E 22°38'49.28"N 76°49'18.67"E 22°38'59.21"N 76°49'19.93"E 22°38'58.58"N 76°49'19.82"E 22°38'58.45"N 76°49'21.51"E 22°38'55.28"N 76°49'20.80"E 22°38'55.31"N 76°49'17.33"E 22°38'50.86"N 76°48'37.00"E 22°38'57.45"N 76°48'43.33"E 22°38'57.80"N 76°48'45.16"E 22°38'54.37"N 76°48'41.77"E 22°38'54.62"N 76°48'39.87"E 22°38'57.80"N 76°48'40.12"E	Opencast
58	Stone	Shri Mukti S/o Abdul Qureshi	7 Tiak Nagar Dewas	309, Date 23/02/2018	1	22/06/2018 to 21/06/2028	30-12-19	Working	Non-Captive	(Yes)	Opencast	
59	Stone	Shri Javed Kamaluddin Qureshi	2 Bhagti singh Marg Kanmoud	70, Date 11/01/2010	1	05/02/2010 to 04/02/2030	21-07-10	Non-Working	Non-Captive	(Yes) 32 / 27-05-2016	Opencast	
60	Stone	Shri Narsingh S/o Jagdish Bindal	MM.G Road Kannod	778, Date 08/05/2015	2	19/05/2015 to 18/05/2025	14-01-20	Working	Non-Captive	(Yes) 65 / 06-04-2015	Opencast	
61	Stone	Shri Gopal Agarwal	Gram - Pangoan Tah - Kannod Dist - Dewas	2880, Date 30/12/2017	1	22/01/2018 to 21/01/2028	30-12-20	Working	Non-Captive	(Yes) 195 / 26-12-2017	Opencast	
62	Stone	M/s Mha Narmada StoneCrusher Partner - Rajesh Sirohi	V V Grn Ward Harda	1139, Date 02/07/2018	3	05/07/2018 to 04/07/2028	11-10-18	Working	Non-Captive	(Yes) 224 / 29-06-2018	Opencast	
63	Stone	M/s Jyoti Construction Proprietor - Deepak Agarwal	Chandak Chouraha Harda	116, Date 23/01/2017	1	27/02/2017 to 26/02/2027	25-02-19	Non-Working	Non-Captive	(Yes) 109 / 05-08-2016	Opencast	
64	Stone	M/s Kalish Krashana StoneCrusher proprietor - Deepak Saran	Gram - Anarna Tah Handwa Dist - Harda	2707, Date 12/12/2017	1	18/12/2017 to 17/12/2027	02-05-19	Non-Working	Non-Captive	(Yes) 189 / 17-10-2017	Opencast	
65	Stone	Shri Aman S/o Mahesh Patel	Sihor	538, Date 15/07/2020	3	21/08/2020 to 20/08/2030	02-02-21	Working	Non-Captive	(Yes) 379 / 30-05-2020	Opencast	
66	Stone	Shri Jayram S/o Ramnivas Jai	Dhahad Mohalla Jiyagan Khatagan	1306, Date 27/07/2015	1	24/08/2015 to 23/08/2025	26-08-17	Non-Working	Non-Captive	(Yes) 1746 / 08-06-2015	Opencast	
67	Stone	Smt. Seema W/o Shaikh	58 Ram Nagar Dewas	1149, Date 02/07/2018	3	24/02/2019 to 23/02/2029	04-12-09	Non-Working	Non-Captive	(Yes) 225 / 26-06-2018	Opencast	

68	Stone	Shri Kann S/o Suresh Bhatiya	I Navlakha A B Road Indore	1116, Date 07/06/2021	2.25	20/09/2018 to 19/09/2028	31-12-21	Working	Non-Captive	(Yes) 6292 / 12-02-2021	76°08'35.90"E 76°08'16.55"E 76°09'27.76"E 76°09'31.17"E 76°09'46.05"E 76°09'51.37"E 76°09'58.19"E 76°10'03.92"E 76°10'08.87"E 76°10'14.07"E	Opencast
69	Stone	Shri Manish S/o Anekhlal Pandar	Gram - Nevn	2587, Date 24/11/2017	1	18/12/2017 to 17/12/2027	02-04-17		Non-Captive	(Yes) 156 / 16-10-2017	76°14'49.07"E 76°14'49.20"E 76°14'49.14"E 76°14'44.20"E	Opencast
70	Stone	Shri Nitin S/o Doulat Tanwar	Hatpiplya	855 - 57, Date 17/01/2018	1.442	04/05/2018 to 03/05/2028	12-10-18	Working	Non-Captive	(Yes) 2840 / 17-12-2017	76°15'47.11"E 76°15'50.51"E 76°15'47.01"E 76°13'22.90"E	Opencast
71	Stone	Shri Ajay S/o Shri Jagdish Fulleriya	Gram - Bhervakhedi Tah- Tonkhhurd Dist - Dewas	483, Date 19/06/2020	1	24/09/2020 to 23/09/2030	26-12-21	Working	Non-Captive	(Yes) 483 - 02-06-2020	76°13'22.99"E 76°13'26.69"E 76°13'26.34"E 76°13'24.50"E	Opencast
72	STONE	Shri Prem Singh S/o Samandar Singh Thakur	Pitavali	1437, Date 20/07/2021	1	04/08/2021 to 03/08/2031		Non Working	Non-Captive	(Yes) 586 / 18-05-2021	76°07'54.83"E 76°07'56.71"E 76°07'54.81"E 76°11'18.568"E	Opencast
73	Stone	M/s Maa Lakshmi StoneCrusher Partner Shri Mahesh Thakur	Sikkhedi	1744, Date 18/08/2021	2	09/09/2021 to 08/09/2031	13-01-22	Non Working	Non-Captive	(Yes) 640 / 18-05-2021	76°11'21.458"E 76°11'24.21"E 76°11'23.85"E 76°11'21.169"E 76°11'19.714"E 76°11'19.303"E 76°11'18.901"E 76°11'16.687"E 76°11'14.336"E 76°11'14.336"E 76°11'14.098"E 76°11'14.217"E 76°11'16.446"E 76°11'18.636"E 76°11'19.010"E 76°11'18.164"E 76°08'43.76"E	Opencast
74	Stone	M/s Ivoti Construction Company Part Deepak S/o Gounstankar Agnawal	Charnak, Chouk Dist Harda	374, Date 22/02/2010	4	01/04/2020 to 31/04/2030	26-04-10	Non Working	Non-Captive	(Yes) 11232 / 11-02-2016	76°48'51.61"E 76°48'55.17"E 76°48'56.59"E 76°48'56.23"E 76°48'53.22"E 76°48'51.24"E 76°48'47.36"E 76°48'48.837"E	Opencast
75	Stone	M/s Maa Reva StoneCrusher Shri Prem Narayan S/o Rdheshyam Jurt	Nimasa Dist Sarwas	340, Date 11/02/2021	1.4	08/11/2021 to 07/11/2031		Non Working	Non-Captive	(Yes) 3856 / 19-10-2020	76°48'51.424"E 76°48'51.402"E 76°48'49.154"E 76°48'50.701"E 76°48'37.24"E	Opencast
		Shri. Jagan S/o. Dr. Anand K. Arora	Ivaram Bajar Timarni Dist	1116, Date 07/06/2021	7	03/09/2021 to	06.06.22	Working	Non-Captive	(Yes) 6292 / 12-02-2021	76°48'37.24"E	Opencast

Sl. No.	Category	Applicant Name	Harda	Eligibility Criteria	Area	02/09/2031	Start Date	End Date	Working	Captive	2021	Coordinates
77	STONE	Smt. Jit W/o Prayank Joshi	Vikrampur Dist. Khategaon	914, Date 16/01/2019	1.05	17/03/2021 to 16/03/2031			Non Working	Non-Captive	(Yes) 3626 / 23-12-2019	76.4837 22°E 76.4830 30°E 76.4554 40°E 76.4556 11°E 76.461 29°E
78	Stone, M-SAND	M/s Vaant Infra Pvt Ltd Director Shri Lakshy S/o Mukesh Patidar	Bhamori	2312, Date 22/11/2021	3.92	02/12/2021 to 01/12/2031		28-03-22	Working	Non-Captive	(Yes) 228428 / 19-12-2021	76.1723 08°E 76.1720 70°E 76.1712 96°E 76.1135 23°E 76.1136 294°E
79	STONE	Shri Harsh Vijaywargi	52 Bhand Singh Marg Dist Dewas	1820, Date 03/09/2021	1.9	11/01/2022 to 10/01/2031		05-05-22	Working	Non-Captive	(Yes) 1584 / 12-05-2022	76.1134 69°E 76.1135 73°E 76.1135 394°E 76.1131 694°E 76.1131 795°E
80	STONE	Shri Ramsingh Saran S/o Jitaram Saran	Ramnagar Tahsil Jumi Dist. Jodhpur (Rajasthan)	52, Date 12/01/2022	2.9	13/01/2022 to 12/01/2031		19-05-22	Working	Non-Captive	(Yes) 217941 / 16-12-2021	76.4858 00°E 76.4858 76°E 76.480 02°E 76.4859 89°E 76.482 71°E 76.485 39°E 76.4810 27°E 76.4810 33°E 76.487 15°E 76.484 55°E 76.4857 96°E
81	Stone	Shri Sher Khan S/o Mammu Khan	Pipalda Tahsil Satwas	611, Date 10/04/2017	2	20/04/2017 to 19/04/2027		09-10-17	Non Working	Non-Captive	(Yes) 118 / 23-03-2017	76.4354 48°E 76.5498 92°E 76.5458 24°E 76.5456 13°E 76.5456 04°E 76.5453 96°E
82	Stone	M/s V D Contra	Indore	672, Date 10/07/2019	2	01/07/2019 to 30/06/2029			Non Working	Non-Captive		76.0431 55°E 76.0433 67°E 76.0435 65°E 76.0431 65°E 76.0421 78°E
83	Stone	M/s V D Contra	Indore	640, Date 01/07/2019	3	01/07/2019 to 30/06/2029			Non Working	Non-Captive		76.0431 42°E 76.0431 62°E 76.0422 34°E 76.1830 84°E
84	Stone	M/S Vinet S/o Anan Gupta	Sonkachh	1151, Date 02/07/2018	1	03/10/2017 to 02/10/2027	1 st 03-10-2017 TO 02-10-2027	14-11-13	Non Working	Non-Captive	(Yes) 223 / 29-06-2018	76.1834 08°E 76.1835 46°E 76.1831 86°E 76.1602 27°E 76.1610 51°E 76.1610 44°E 76.1609 53°E 76.1608 50°E 76.1609 66°E 76.1605 58°E 76.1605 64°E 76.1603 22°E 76.2120 56°E 76.2120 29°E
85	Stone	M/s K G Gupta Pro. Krishna Copal Gupta	Radhakrishna Apartment, Bima Nagar, Indore	1840, Date 21/10/2016	4.47	20/04/2017 to 19/04/2027			Non Working	Non-Captive	(Yes) 78 / 05-08-2016	76.1609 70°E 76.1605 58°E 76.1605 64°E 76.1603 22°E 76.2120 56°E 76.2120 29°E
86	Stone	Shri Jogendra Singh S/o Gauri Singh	Pitawah	1152, Date 21/06/2018	1	21/01/2019 to 20/01/2029			Non Working	Non-Captive	(Yes) 236 / 29-06-2018	76.2120 56°E 76.2120 29°E 76.2116 77°E

07	STONE	Shri. Narayan S/o Punamchand	Vikas Nagar Dewas	16037, Date 25/11/2021	4	03/07/2019 to 10/02/2020	10-01- 2019 TO 02- 07-2020	24-12-10	Non Working	Non-Captive	(Yes) 15 / 18-05-16	23°32'37"N 23°36'49"N 23°36'03"N 23°36'74"N 23°36'77"N 23°10'41.38"N 23°10'41.20"N 23°10'34.66"N 23°10'34.92"N	76°13'30"E 76°13'11.69"E 76°13'11.14"E 76°13'8.65"E 76°12'58.68"E 76°30'43.02"E 76°30'46.55"E 76°30'46.42"E 76°30'43.09"E
08	STONE	Shri V. Jendra S/o Ramheshchandra	Polavkala Dist. Shajapur	1556, Date 05/08/2021	4	30/03/2022 to 29/03/2032			Non Working	Non-Captive	(Yes) 8990 / 20-03- 2022		Opencast



State Level Environment Impact
Assessment Authority, M.P.
(EIAO)
Faryavangan Parisar
E-5, Aaree Colony, Bhopal (M.P.)

Details of the Mining Leases of Murrum in the District as per the following Format														
S.NO.	Name of the Mineral	Name of the lessee	Address & Contact No. of Lessee	Mining Lease Grant Order No. & Date	Area of Mining Lease (ha)	Period of Mining lease (Initial)		Date of commencement of Mining Operation	Status (Working / Non-Working / Temp. Working for dispatch)	Captive / Non-Captive	Obtained Environmental Clearance (Yes/No), if Yes Letter No with date of grant of EC	Location of the Mining Lease (Latitude & Longitude)		Method of Mining (Opencast / Underground)
						From-To	From-To					15	16	
1	Murrum	Shri Sandesh Goyal	15 Agrasen Nagar Dewas	1708, Date 01/09/2017	1	14/08/2017 to 13/08/2027	9-10	22-02-20	Non-Working	Non-Captive	(Yes) 142 / 17-06-2017	22°58'54.12"N 76°09'06.17"E 22°58'32.31"N 76°09'07.03"E 22°58'32.36"N 76°09'11.32"E 22°58'20.99"N 76°09'09.64"E 22°58'52.98"N 76°09'03.12"E 22°58'36.24"N 76°09'01.80"E 22°58'38.08"N 76°09'03.83"E 22°58'34.19"N 76°09'06.03"E 22°58'33.20"N 76°09'03.58"E 22°58'39.22"N 76°08'59.37"E 22°58'41.25"N 76°09'01.89"E 22°58'38.08"N 76°09'03.83"E 22°58'36.24"N 76°09'01.80"E 22°58'42.12"N 76°09'20.15"E 22°58'41.94"N 76°09'23.72"E 22°58'36.62"N 76°09'21.08"E 22°58'36.79"N 76°09'20.17"E 22°58'37.93"N 76°08'48.31"E 22°58'39.34"N 76°08'51.81"E 22°58'36.68"N 76°08'55.92"E 22°58'33.05"N 76°08'55.74"E 22°58'33.70"N 76°08'48.89"E 22°59'04.17"N 76°08'31.56"E 22°59'02.13"N 76°08'34.27"E 22°58'57.30"N 76°08'28.99"E 22°58'57.43"N 76°08'28.03"E 22°58'04.99"N 76°08'28.20"E 22°58'59.54"N 76°08'25.62"E 22°59'02.13"N 76°08'24.53"E 22°59'04.84"N 76°08'23.86"E 22°59'03.20"N 76°08'23.38"E 22°59'02.73"N 76°08'29.81"E 22°59'02.61"N 76°08'30.50"E 22°59'03.05"N 76°08'31.21"E	Opencast	
2	Murrum	Shri Subhash Dabhi	Gram - Barfa Jagir Tahsil - Sawer Dist Indore	2710, Date 12/12/2017	1	08/11/2017 to 07/11/2027	-	02-02-18	Working	Non-Captive	(Yes) 154 / 16-10-2017		Opencast	
3	Murrum	Shri Anil S/o Anup Singh Sikarwar	16/7 Radha Ganj Dewas	2709, Date 12/12/2017	1	28/12/2017 to 27/12/2027	-	12-06-18	Working	Non-Captive	(Yes) 155 - 16-10-2017		Opencast	
4	Murrum	Shri Kamlesh S/o Kedar Choudhri	45/7 Raj Bhawan Dewas	2874, Date 30/12/2017	1	12/01/2018 to 11/01/2028	-	18-03-18	Non-Working	Non-Captive	(Yes) 199 - 26-12-2017		Opencast	
5	Murrum	M/s Uday mines	ED Skim No 04 Barfani Dham Chouraha Indore	507, Date 04/04/2018	3	06/04/2018 to 05/04/2028	-	20-01-21	Working	Non-Captive	(Yes) 4397 27-10-2020		Opencast	
	Murrum	T R. STONE CRUSING COMPANY PROPRIETOR - DIMPY AGARWAL.	Gram - Shankargadh Tah- Dewas Dist - Dewas	1127, Date 02/07/2018	3	15/07/2018 to 14/07/2028	-	22-10-18	Non-Working	Non-Captive	(Yes) 232 - 29-06-2018		Opencast	

7	Murram	Shri Pappu Chand S/o Prathvi Singh Goud	Gram - Shankargadh Tah-Devas Dist - Devas	1137, Date 02/07/2018	2	14/07/2018 to 13/07/2028		14-03-19	Working	Non-Captive	(Yes) 231 / 29-06-2018	22°58'42.51"N 22°58'43.05"N 22°58'42.43"N 22°58'40.56"N 22°58'35.41"N 22°58'33.06"N 22°58'39.55"N 22°59'04.18"N 22°59'11.57"N 22°59'08.58"N 22°59'01.67"N 22°59'08.26"N 22°59'08.06"N 22°59'02.20"N 22°59'01.91"N	76°08'52.14"E 76°08'57.13"E 76°08'57.17"E 76°08'54.78"E 76°08'59.30"E 76°08'58.80"E 76°08'51.90"E 76°08'52.10"E 76°08'38.84"E 76°08'40.80"E 76°08'35.24"E 76°08'28.11"E 76°15'44.87"E 76°15'47.53"E 76°15'50.44"E 76°15'47.65"E 76°01'29.80"E 76°01'28.69"E 76°01'30.51"E 76°01'31.64"E 76°01'34.54"E 76°01'35.61"E 76°01'41.18"E	Opencast
8	Murram	Shri Prem Singh S/o Bihani Lal Chouhan	Gram - Shankargadh Tah-Devas Dist - Devas	1448, Date 24/08/2018	3	24/08/2018 to 23/08/2028		03-10-19	Working	Non-Captive	(Yes) 241 / 14-08-2018	76°08'38.84"E 76°08'40.80"E 76°08'35.24"E	Opencast	
9	Murram	Shri Dharmendra S/o Makhan Patel	131 Bhagysri Colony Indore	1499, Date 24/08/2018	3	22/08/2018 to 21/08/2028		02-04-19	Working	Non-Captive	(Yes) 240 / 14-08-2018	76°08'35.79"E 76°08'28.94"E 76°08'28.11"E	Opencast	
10	Murram	Shri Doulat Singh Tanwar	Newri Dist Bagli	2035, Date 06/12/2016	1	14/09/2017 to 13/09/2027		04-11-17	Working	Non-Captive	(Yes) 79 / 05-08-2016	76°15'44.87"E 76°15'47.53"E 76°15'50.44"E 76°15'47.65"E	Opencast	
11	Murram	M/s Datt Krupa Traders Pro. Fatehsingh Vishvasrao	Nagda	1206, Date 21/06/2021	19	02/07/2021 to 01/07/2031		30-06-22	Working	Non-Captive	(Yes) 6314 / 01-2021	22°54'29.27"N 22°54'30.16"N 22°54'31.36"N 22°54'32.24"N 22°54'33.08"N 22°54'32.15"N	76°01'29.80"E 76°01'28.69"E 76°01'30.51"E 76°01'31.64"E 76°01'34.54"E 76°01'35.61"E	Opencast
12	Murram	Smt Monika Sharma W/o Vipin Sharma	Amarpura Devas	1799, Date 07/10/2016	1	27/10/2016 to 26/10/2026		18-11-16	Non Working	Non-Captive	(Yes) 73 / 05-08-2016	22°59'20.58"N 22°59'30.32"N 22°59'25.29"N 22°59'25.80"N	76°08'14.84"E 76°08'17.20"E 76°08'16.90"E 76°08'14.49"E	Opencast



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

Details of the Mining Leases of Quartzite in the District as per the Following Formate

S.NO.	Name of the Mineral	Name of the lessee	Address & Contact No. of Lessee	Mining Lease Grant Order No. & Date	Area of Mining Lease (ha)	Period of Mining lease		Date of commencement of Mining Operation	Status (Working / Non-Working / Temp. Working for dispatch)	Captive / Non-Captive	Obtained Environmental Clearance (Yes / No) If Yes Letter No with date of grant of EC	Location of the Mining Lease (Latitude & Longitude)		Method of Mining (Opencast / Underground)
						From-To	From-To					15	16	
1	Quartzite	M/s Indore Pvt Ltd Director Tajendrapal singh	Sukras	2599, Date 24/11/2017	4.99	16/02/18 to 15/02/28	7-8	9-10	11-	12	13	14	15	16
													22°39'40.91"N 76°49'46.44"E	
													22°39'35.44"N 76°49'55.69"E	
													22°39'33.13"N 76°49'54.44"E	Opencast
													22°39'34.27"N 76°49'49.43"E	
													22°39'36.03"N 76°49'40.33"E	
													22°39'37.06"N 76°49'46.10"E	
													22°39'32.02"N 76°50'12.59"E	
													22°39'30.15"N 76°50'20.96"E	Opencast
													22°39'26.74"N 76°50'19.26"E	
													22°39'27.95"N 76°50'11.92"E	
													22°39'35.63"N 76°50'01.28"E	
													22°39'32.11"N 76°50'12.52"E	Opencast
													22°39'27.93"N 76°50'11.71"E	
													22°39'32.72"N 76°50'00.33"E	
													22°39'17.04"N 76°49'25.49"E	
													22°39'14.82"N 76°49'33.30"E	
													22°39'09.86"N 76°49'32.05"E	Opencast
													22°39'08.93"N 76°49'25.05"E	
													22°39'09.91"N 76°49'23.47"E	
													22°39'37.47"N 76°49'29.14"E	
													22°39'36.47"N 76°49'36.73"E	
													22°39'35.97"N 76°49'36.78"E	
													22°39'36.40"N 76°49'32.47"E	Opencast
													22°39'34.63"N 76°49'32.09"E	
													22°39'34.42"N 76°49'31.11"E	
													22°39'42.61"N 76°49'26.57"E	
													22°39'41.46"N 76°49'28.44"E	
													22°39'36.01"N 76°49'27.91"E	
													22°39'35.84"N 76°49'29.01"E	

State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Baryavarani Parisar
5, Atria Colony, Bhopal (M.P.)

6	Quartzite	M/s Digiana Industries Pvt Ltd Director Tjendrapal Singh	Sukras	2600. Date 24/11/2017	2.34	16/02/18 to 15/02/28	-	-	Non Working	Non-Captive	(Yes) 184 / 17-10- 2017	22°39'35.28"N 76°49'28.97"E 22°39'35.10"N 76°49'29.28"E 22°39'34.82"N 76°49'29.32"E 22°39'35.08"N 76°49'24.04"E 22°39'35.67"N 76°49'26.56"E 22°39'38.67"N 76°49'27.50"E 22°39'40.22"N 76°49'24.89"E 22°39'34.18"N 76°49'49.44"E 22°39'28.90"N 76°49'01.81"E 22°39'27.13"N 76°49'01.10"E 22°39'30.95"N 76°49'49.36"E 22°39'19.05"N 76°49'15.69"E 22°39'16.98"N 76°49'24.52"E 22°39'10.31"N 76°49'22.12"E 22°39'14.19"N 76°49'13.32"E 22°39'21.90"N 76°49'04.03"E 22°39'19.05"N 76°49'15.69"E 22°39'14.19"N 76°49'13.32"E 22°39'20.54"N 76°49'03.40"E 22°39'27.19"N 76°49'05.09"E 22°39'27.73"N 76°49'11.15"E 22°39'26.52"N 76°49'17.54"E 22°39'22.54"N 76°49'16.55"E 22°39'24.65"N 76°49'05.93"E 22°39'20.73"N 76°49'47.27"E 22°39'22.17"N 76°49'48.12"E 22°39'21.92"N 76°49'55.09"E 22°39'22.28"N 76°49'56.19"E 22°39'22.74"N 76°49'56.40"E 22°39'23.37"N 76°50'04.30"E 22°39'22.47"N 76°50'05.94"E 22°39'18.90"N 76°50'05.95"E 22°39'16.78"N 76°50'01.68"E 22°39'15.90"N 76°50'01.30"E 22°39'16.33"N 76°49'47.84"E 22°39'26.42"N 76°49'17.77"E 22°39'23.17"N 76°49'28.84"E	Opencast
7	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal Singh	Sukras	2596. Date 24/11/2017	2.21	16/02/18 to 15/02/28	-	-	Non Working	Non-Captive	((Yes) 183 / 17-10- 2017	Opencast	
8	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal Singh	Sukras	2592. Date 24/11/2017	4.87	16/02/18 to 15/02/28	-	-	Non Working	Non-Captive	(Yes) 158 / 16-10- 2017	Opencast	
9	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal Singh	Sukras	2593. Date 24/11/2017	4.87	16/02/18 to 15/02/28	-	-	Non Working	Non-Captive	(Yes) 159 / 16-10- 2017	Opencast	
10	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal Singh	Sukras	761. Date 23/04/2018	4	04/08/18 to 03/08/28	-	-	Non Working	Non-Captive	-	Opencast	
11	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal Singh	Sukras	766. Date 23/04/2018	9.99	04/08/18 to 03/08/28	-	-	Non Working	Non-Captive	-	Opencast	
		M/s Digiana Industries Pvt Ltd Director	Sukras	761. Date		04/08/18 to 03/08/28			Non	Non-Captive			


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Sr	Mineral	Name of Applicant	Sumed	764, Date	9.85	04/08/18 to 03/08/28	Working	Non-Captive	Open Cast
13	Quartzite	Tajendrapal Singh M/s Digiana Mines and Minerals Pvt Ltd Director Tajendrapal singh	Sukras	764, Date 23/04/2018	9.85	04/08/18 to 03/08/28	Non Working	Non-Captive	Open Cast
14	Quartzite	M/s Digiana Infra Pvt Ltd Director Tajendrapal singh	Sukras	759, Date 23/04/2018	3.7	04/08/18 to 03/08/28	Non Working	Non-Captive	Open Cast
15	Quartzite	M/s Digiana Industries Pvt Ltd Director Tajendrapal Singh	Nanasa	760, Date 27/04/2018	4	04/08/18 to 03/08/28	Non Working	Non-Captive	Open Cast
16	Quartzite	M/s Digiana Industries Pvt Ltd Director Tajendrapal Singh	Nanasa	765, Date 23/04/2018	5.85	04/08/18 to 03/08/28	Non Working	Non-Captive	Open Cast
		M/s Digiana Corporation Pvt Ltd Director	Nanasa	762, Date		04/08/18 to 03/08/28	Non	Non-Captive	Open Cast

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Sl. No.	Quartzite	NAME OF THE OFFICIALS	NAME	DATE	NO. OF SAMPLES	DATE OF REPORT	STATUS	COORDINATES	OPENCAST
		Tajendrapal Singh		23/04/2017			Working	22°39'15.48"N 76°48'55.50"E 22°39'22.77"N 76°48'48.85"E 22°39'23.04"N 76°48'47.27"E 22°39'16.12"N 76°50'01.50"E 22°39'16.91"N 76°50'02.09"E 22°39'18.84"N 76°50'06.14"E 22°39'21.82"N 76°50'06.23"E 22°39'21.61"N 76°50'09.35"E 22°39'22.59"N 76°50'09.49"E	
18	Quartzite	M/s Digiana Industries Pvt Ltd Director Tajendrapal Singh	Sukras	763. Date 23/04/2018	8	04/08/18 to 03/08/28	Non Working	22°39'22.57"N 76°50'10.46"E 22°39'18.86"N 76°50'13.76"E 22°39'14.60"N 76°50'24.16"E 22°39'13.70"N 76°50'24.03"E 22°39'13.37"N 76°50'22.27"E 22°39'13.68"N 76°50'14.96"E 22°39'14.87"N 76°50'11.54"E	Opencast

(Signature)

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Details of the Mining Leases of Limestone and Marble in the District as per the Following Format														
S.No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining Lease Grant Order No. & Date	Area of Mining Lease (ha)	Period of Mining lease (Initial)		Period of Mining Lease (1st / 2nd ... renewal)	Date of commencement of Mining Operation	Status (Working / Non-Working / Temp. Working for dispatch)	Captive / Non-Captive	Obtained Environmental Clearance (Yr/No). If Yes Letter No with date of grant of EC	Location of the Mining Lease (Latitude & Longitude)	Method of Mining (Open cast / Underground)
						From-To	From-To							
1	2	3	4	5	6	7-9	9-10	11	12	13	14	15	16	
1	LIMESTONE CHUNA KANKAR	M/s Tinpath Minerals Partner Hariprasad Upadhyay	Polakhal	868, Date 18/05/2016	5	02/06/2016 to 01/06/2026	-	29-08-19	Non Working	Non-Captive	(Yes) 02 / 17-05-2016	22°28'12.15"N 76°16'18.70"E 22°28'11.47"N 76°16'27.51"E 22°28'10.07"N 76°16'27.50"E 22°28'09.77"N 76°16'31.16"E 22°28'05.54"N 76°16'40.79"E 22°28'05.56"N 76°16'26.81"E 22°28'07.70"N 76°16'18.76"E	Open cast	
2	MARBLE	M/s Sweet labb Mines Pro Nitin Dubey	Pandu Talab	1032, Date 05/06/2017	3.41	02/01/2018 to 01/01/2048	-	19/06/2019	Non Working	Non-Captive	(Yes) 930 / 30-05-2019	22°28'55.33"N 76°16'46.81"E 22°28'56.67"N 76°16'49.59"E 22°28'54.74"N 76°16'44.10"E	Open cast	
3	MARBLE	M/s Sweet labb Mines Pro Nitin Dubey	Pandu Talab	1042, Date 08/06/2017	2	02/01/2018 to 01/01/2048	-	14-03-19	Non Working	Non-Captive	(Yes) 176 / 17-10-2017	22°28'53.73"N 76°17'10.17"E 22°28'52.60"N 76°17'10.84"E 22°28'51.11"N 76°17'19.77"E	Open cast	
4	MARBLE	M/s Natural Mining and Minerals Partner Adil Khan	Sohalyapura	1034, Date 27/09/2019	2.5	26-07-2021 to 25/07/2051	-	08-02-22	Working	Non-Captive	(Yes) 5162 / 12-03-2020	22°40'25.86"N 76°10'31.11"E 22°40'24.88"N 76°10'34.89"E 22°40'20.01"N 76°10'35.62"E 22°40'19.85"N 76°10'41.77"E 22°40'17.06"N 76°10'42.11"E 22°40'17.26"N 76°10'46.21"E 22°40'19.95"N 76°10'31.79"E 22°40'24.74"N 76°10'33.37"E	Open cast	
5	MARBLE	M/s Natural Mining and Minerals Partner Adil Khan	Bisali	1006, Date 27/09/2019	2.9	26-07-2021 to 25/07/2051	-	-	Non Working	Non-Captive	-	22°40'24.88"N 76°10'34.89"E 22°40'20.01"N 76°10'35.62"E 22°40'19.85"N 76°10'41.77"E 22°40'17.06"N 76°10'42.11"E 22°40'17.26"N 76°10'46.21"E 22°40'19.95"N 76°10'31.79"E	Open cast	
6	MARBLE	M/s Arman and Arham Partner Sun Rishpal Singh Bhatiya	Bisali	1035, Date 27/09/2019	2	17-06-2021 to 16/06/2051	-	-	Non Working	Non-Captive	-	22°40'24.88"N 76°10'34.89"E 22°40'20.01"N 76°10'35.62"E 22°40'19.85"N 76°10'41.77"E 22°40'24.51"N 76°10'40.84"E 22°40'24.12"N 76°10'35.49"E	Open cast	

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10. DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS

YEAR	REVENUE FROM GITTI (in Crore)	REVENUE FROM MURRUM (in Crore)	REVENUE FROM MARBLE (in Crore)	REVENUE LIME KANKAR (in Crore)	TOTAL REVENUE
2019-20	6.4965401	0.7845013	0.1233141	0.0231694	7.4275249
2020-21	6.6122070	0.6251182	-	-	7.2373252
2021-22	7.5650466	0.8984840	0.1484565	-	8.6119871
Total	20.6737937	2.3081035	0.2717706	0.0231694	23.2768372

11. DETAILS OF PRODUCTION OF MINOR MINERAL IN LAST THREE YEARS

MINERAL	YEAR WISE PRODUCTION IN M ³			Total
	2019-20	2020-21	2021-22	
GITTI	6496654	551017	630420	7678091
MURUM	156900	125023	179696	461619
LIME KANKAR	2497	-	-	2497
MARBLE	1002	466	1000	2,468

12. MINERAL MAP OF THE DISTRICT

Mineral Map is enclosed as Plate No-7


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13. LIST OF LETTER OF INTENT (LOI) HOLDERS IN THE DISTRICT ALONG WITH ITS VALIDITY AS PER THE FOLLOWING FORMAT

Sl. NO.	Name of the Mineral	Name of the Lessee	Address & Contact No. Of Letter of Intent Holder	Letter of Intent Grant Order NO. & date	Area of Mining lease to be allotted	Validity of LOI	Use (Captive/Non-Captive)	Location of the Mining lease (Latitude & Longitude)
1	2	3	4	5	6	7	8	9
1	Muram	Mr. Mohanlal S/o Deva ji Chouhan	Diggiraja Nagar Dewas	1137/21.04.2022	2.00	10 Year	Non-Captive	22°59'16.006"N 76°8'35.499"E 22°59'16.005"N 76°8'38.750"E 22°59'15.411"N 76°8'41.940"E 22°59'8.832"N 76°8'36.345"E 22°56'16.883"N 76°7'50.645"E 22°56'20.007"N 76°7'51.481"E 22°56'19.491"N 76°7'54.644"E 22°56'21.778"N 76°7'54.941"E 22°56'21.623"N 76°7'58.922"E
2	Gitti and M-Send	M/S V.K. Inter prisis part- Mr. Govind	Palada, musakhedi Indore	2406/29.11.2021	4.00	10 Year	Non-Captive	22°56'18.399"N 76°7'58.242"E 22°56'15.175"N 76°7'57.563"E 22°56'15.306"N 76°7'56.715"E 22°56'12.283"N 76°7'55.784"E 22°56'12.232"N 76°7'55.560"E 22°56'12.822"N 76°7'52.715"E 22°56'16.066"N 76°7'53.541"E
3	Muram			1313/13.05.2022	2.40	10 Year	Non-Captive	23°0'42.511"N 76°9'2.782"E

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		M/S Badshah udhough, pro- Ayazuddin sheikh	Shivaji Nagar malhar kothi Dewas					23°0'41.877"N	76°9'7.392"E
								23°0'38.989"N	76°9'7.089"E
								23°0'38.938"N	76°9'6.191"E
								23°0'37.192"N	76°9'5.791"E
								23°0'37.175"N	76°9'4.661"E
								23°0'35.263"N	76°9'4.070"E
								23°0'35.439"N	76°9'1.591"E
								23°0'38.975"N	76°9'2.187"E
								23°0'24.837"N	76°8'40.735"E
4	Muram	M/S Badshah udhough, pro- Ayazuddin sheikh	Shivaji Nagar malhar kothi Dewas	1611/13.05.2022	2.50	10 Year	Non-Captive	23°0'24.325"N	76°8'45.510"E
5	Gitti and M-Send	M/s Lucky Mining Part- Ritesh rathor	60, railway station Dewas	1652/19.05/2022	1.38	10 Year	Non-Captive	23°0'18.525"N	76°8'44.250"E
6	Gitti	Smt.Anupriya W/o Vijay Buchani	11, golden city Bhopal	402/17.02/2022	3.00	10 Year	Non-Captive	23°0'19.042"N	76°8'39.612"E
7	Gitti	Smt.Pratiksha W/o Ajit kumar Mishra	Hoshangabad road chinar Fortune City Bhopal	400/17.02.2022	3.00	10 Year	Non-Captive		
8	Gitti	Mr. Umesh S/o Ramesh Tiwari	Vrajivihar Near vaisali Nagar Indore	404/17.02.2022	3.00	10 Year	Non-Captive	23°3'44.464"N	76°13'31.867"E
								23°3'44.541"N	76°13'36.066"E
								23°3'41.624"N	76°13'36.277"E
								23°3'41.133"N	76°13'35.027"E
								23°3'38.798"N	76°13'36.269"E
								23°3'36.169"N	76°13'31.563"E

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9	Gitti	Mr. Pravin Shrivastav	6, Moti Bangla Dewas	1729/26.05.2022	2.00	10 Year	Non-Captive	23°3'41.125"N	76°13'30.559"E
10	Gitti and M-Send	M/s Alliance Associates	Gorraiya, Kotar, Satana	1216/22.06.2021	3.15	10 Year	Non-Captive		
11	Gitti and M-Send	M/s Balaji Minse part-Arvind Raghuvanshi	165, C, Tulsi Nagar Indore	895/21.03/2022	3.612	10 Year	Non-Captive		
12	Gitti	Mr. Vishvjit singh Baghel	M.G.road Sonkacch Dewas	1165/11.06.2021	4.00	10 Year	Non-Captive		

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

Parvati Prasad Parisar
E-5, Arda Colony, Bhopal (M.P.)

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14. TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT

The District is poor in economic minerals. Except dolomite, they occur in very small quantity and of poor grade. Basalt, Murram, Marble, Dolomite, Quartzite are the only minerals found in the district of economic importance. About 70 % of the district is covered by Deccan trap basalt & its weathering product Murum and have huge resources. Quartzite and chert breccia found over a small area about 3%. Except dolomite all other litho- units found in the district can be used as building material. About 10 to 15 % of the district is covered by quaternary sediments or alluvium and due to its high fertility are under cultivation.

Manganese: Small isolated and segregated lenticular bodies of manganese ore are found in the chert breccia of Bijawar Group and also in the top beds of dolomites near the confluence of the Kanar and the Lohar rivers, upstream of Ratagarh village, near village kand, and near Polakhal along the Ghorapachhar river. The manganese ore occurs in very small quality and is of low grade. Though in the past some small quantities of ore was excavated, the deposits are not of any economic significance.

Iron Ore: Scattered small bodies of haematite iron ore are present in chert breccia with calcareous and ferruginous matrix. They are found around Tarania, Ratagarh, Mehdikhera, Badel, etc. The small size of the ore body as well as its low grade render them uneconomic for working on any appreciable scale. Heaps of slags have also been noticed at places in the vicinity of ferrugeneous sandstone of Vindhyan formations.

Dolomites: Though the dolomites at places are of good grade, difficult communication makes their working uneconomical except for lime burning.

Copper: Ancient workings of copper have been noted near Tamakhan on the bank of the river Narmada about 30 km. West of Nemawar. The occurrence, however, does not appear to be of major significance.

Galena: Very Small specks of galena are seen in quartz near Bagda east of Dudwas

Barytes: Quartz veins comprising barytes have been noted east of Giri on Khategaon Kantaphor road.

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Building Material: Huge quantity of building material is available in the district. The massive granites could be utilized for building material and road metal. The basalts could largely be used as a road metal and as a construction material.

Sand: Major river of the district having good sand deposit. In the district quarrying of sand is being done from River Narmada and Kali Sindh. It is a fine quality white-grey sand used in concrete and masonry work. It can also be used for plastering, brick-works, RCC etc. This sand has a better grain shape with a smooth texture and demands less moisture since water is already trapped within its particles.


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15. QUALITY /GRADE OF MINERAL AVAILABLE IN THE DISTRICT

The dolomite is the only mineral, which can be used in various industries. A sum total of million tonnes of BF grade dolomite were estimated. It can be used in various industries like Ferro - Manganese, Glass, Fertilizer Industry, Lime, Refractory, Fertilizer/Extender and Cutting polishing Industry.

The sub-committee on Refractory Raw Materials appointed by the DGTD in their report has suggested the following specifications of dolomite for it's use as refractory material.

Grade	Constituents				Physical Characteristics
	MgO	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	
Grade -I (For use in the LD converters)	21% (min)	1%(max)	1%(max)	0.5%	The material should be compact, homogeneous, fine grained and nondepreciating on calcinations
Grade -II (For felting purpose)	20%(min)	2.5(max)	1%(max)	1%(max)	

According to the report mentioned above, the consumer steel plants have by large agreed to the limitation specified by the sub-committee. TISCO, however, wanted much more stringencies in the level of acid insoluble. According to TISCO, the acid insoluble for Grade - I dolomite should not to exceed 1.25 %, instead of 2.5 % as stipulated by the sub-committee. Dolomite used for felting purposes by SALY sometimes contain up to 5 % acid insoluble. Use of dolomite containing higher insoluble than those specified above results in lower life of the refractory bricks.

The type of dolomite use in blast furnace, sinter, and pellet plants is to same quality but it is of inferior grade as compare to that used in steel melting shop. The BIS stipulates to that dolomite for use in BF/SP should contain MgO 18% (min), CaO 28% (min) and acid insoluble 8% (max), where as steel plant in practice, consumed dolomite with MgO 18.00% to 19.5%, CaO 29% to 30% and acid insoluble 6 to 10%. The steel melting shop requires

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superior quality dolomite for fluxing purposes. The total insoluble should be below 4%. The silica contained should be as low possible but in no case above 2.5%. the steel plants however use dolomite with acid insoluble up to 6% and the case of TISCO it is as high as 8.7%.

Ferro - Manganese: The specifications of dolomite for use in Ferro-manganese are more or less similar to SMS grade dolomite. Physically dolomite should be hard and fine grained because crystalline dolomite gives fritting affects in the furnace Ferro alloys industry actually consumes dolomite with MgO 19 to 20%, CaO 28 to 30%, SiO₂ 2 to 5% and R₂O₃ 2 to 2.5%.

Glass: High-grade dolomite with as low content as possible is required by the glass industry. Glass grade dolomite is typified by its purity and consistency. The MgO and CaO content should not vary by more than 0.5%. The chief undesirable impurities are iron followed by chromite, manganese, vanadium and lead, all of which color glass or they may cause defects in the glass. For certain commercial colors glass. The Fe₂O₃ content up to 0.25% is permissible, but for colorless glass, Fe₂O₃ content of 0.04% (max.) is sometimes specification.

The BIS (IS: 997-1973) has prescribed specifications for limestone and dolomite for glass for glass industry as given below:

S.No.	Characteristics	Requirement on dry basis in %
1	Silica (as SiO ₂)	2.5% (max.)
2	Total Iron (as Fe ₂ O ₃)	
	a. Calcite or marble	0.05(max.)
	b. Limestone	0.10(max.)
	c. Dolomite limestone & dolomite	0.15(max.)
3	Lime (as CaO)	53.00 (min.)
4	Total lime and magnesia (as CaO & MgO)	54.50 (min.)

In case of dolomite limestone or dolomite, requirement of lime and CaO may be fixed by mutual agreement between purchaser and the suppliers. When the material is supplied in powder form, the grains size distribution of the materials shall be between the following limits:

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- a. Materials ruff contained on 2.00 mm IS sieve-nil.
- b. Materials passing 125 microns IS sieve-25% by mass, max.

Fertilizer Industry:

Dolomite for use in fertilizer industry must have $\text{CaCO}_3 + \text{MgCO}_3$ 90 % (min.) and SiO_2 5% max. Inferior grade dolomite limestone of 15-20% MgO can be used as soil conditioner. Ground dolomite, 50% of which must be 100BS mesh size be considered suitable as a soil conditioner if it is applied at the rate of 2-3 ton per acre.

The BIS (IS:5407-part2-1985) has prescribed the specifications of limestone and dolomite to be used as soil amendments. According to this specification, 90% by mass of the materials should pass through 2m (10 mesh) sieve and 50% by mass of materials to pass through 250 micron (60 mesh) sieve. The neutralizing value (express as CaCO_3) percent by mass shall not be less than 70%. The total lime and magnesia (as $\text{CaO} + \text{MgO}$) shall not be less than 50% by mass and the materials shall not contain more than 5% moisture by mass.

Lime : The dolomite for the manufacture of lime should contain CaCO_3 53-75%, MgCO_3 28-48% and other constituent should be less than 3%.

Fertilizer/Extender:

For this purpose, dolomite must be very pure and in particular be free from coloring impurities such as oxides of iron, chromium, Manganese, etc.

The following and use grades for the purpose of classification of reserves are prevalent.

Refractory:

L.D. grade:	
MgO	21% (min.)
SiO ₂	1% (max.)
Al ₂ O ₃	1% (max.)
Fe ₂ O ₃	1% (max.)
SMS & Physical :	Fine grained & nom decapitating on calcinations.

The other minerals like basalt, quartzite are useful as building material are being used for the same.

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16. USE OF MINERAL

a) **Asbestos:** Asbestos was nicknamed "the magic mineral" because its unique chemical composition and physical properties made it suitable for use in thousands of products from floor tiles to road signs, from sewage pipes to insulating mattresses. Historical records show that asbestos has been used by man for over 4,000 years; in this century it has been used in over 3,000 products including cement building materials, pipework lagging, insulating mattresses and rope, fire resistant insulation boards, sprayed fire-proofing products, floor tiles and coverings, water and sewage pipes, gas masks, friction materials for vehicle brakes and clutches, lifts and machinery etc.

b) **Agate:** Agate refers to a rock that consists primarily of cryptocrystalline silica which is primarily chalcedony. Its main characteristic is the fineness of grain and variety of colour. Major industrial uses of agates involve exploiting its hardness, ability to retain a surface finish of the high polish. Furthermore, other uses include tough resistance to chemical attack. The traditional usage of agates has been in making knife-edge bearings for laboratory balances and precision accurate pendulum. Individuals sometimes use agates to make mortars and pestles to crush and mix chemicals. Another important usage of agates is for leather burnishing tools. Agates are useful for various types of decorative displays. Moreover, many experts use them for cabochons, beads, carvings and Intarsia art also.

c) **Baryte:** The barium sulfate barite takes its name from the Greek word barys, which means "heavy" a reference to its high specific gravity. It has also been called heavy spar. Barite crystals are sometimes tinged yellow, blue, or brown. The use of barite is progressively gaining importance in many industrial sectors. Barites offer several benefits such as strong inertia, moderate rigidity, good stability, high specific gravity, and acid & alkali proof. The barite is broadly used in applications including middle & high-grade paint, paper-making, pharmaceutical, rubber, cosmetics, and plastics. Barite is the most common mineral composed of barium and sulfate, which usually occurs naturally in sedimentary rocks, hydrothermal ore veins, as well as in marine deposits. Owing to the versatile properties of this mineral, it is widely utilized for a range of industrial, automobile, and medical sector. Barite is also used as a weighting agent in the gas & oil industry. This mineral is used in

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medical applications for x-rays and gamma rays, in oil drilling operations for cooling the bits, and also manufacturing of paints.

d) Clay: Clay minerals are the function minerals of the earths close to floor environments. They shape in soils and sediments, and through diagenetic and hydrothermal alteration of rocks. Water is essential for clay mineral formation and most clay minerals are defined as hydrous alumino silicates. Clay minerals likely are the most utilized minerals ... not just as the soils that grow plants for foods and garment, but a great range of applications, including oil absorbants, iron casting, animal feeds, pottery, china, pharmaceuticals, drilling fluids, waste water treatment, food preparation, paint etc. . It is also used in floor and wall tile as an absorbent, in sanitation, mud drilling, foundry sand bonding, in iron pelletizing, brick, light weight aggregate and cement. Bentonite is used for drilling mud, pet waste absorbent, iron ore pelletizing and foundry sand bond. Kaolin is used for paper coating and filling, refractory products, fiberglass, paint, rubber and catalyst manufacture. Common clay is used in brick, light aggregate and cement.

e) Copper: Native copper is an element and a mineral. It is found in the oxidized zones of copper deposits; in hydrothermal veins; in the cavities of basalt that have been in contact with hydrothermal solutions; and as pore fillings and replacements in conglomerates that have been in contact with hydrothermal solutions. It is rarely found in large quantities, thus it is seldom the primary target of a mining operation. Most copper produced is extracted from sulfide deposits. It's used in building construction; electric and electronic products (cables and wires, switches, plumbing, heating); transportation equipment; roofing; chemical and pharmaceutical machinery; and alloys (brass, bronze and beryllium alloyed with copper are particularly vibration resistant); alloy castings; electroplated protective coatings; and undercoats for nickel, chromium, zinc, etc. More recently, copper is being used in medical equipment due to its anti-microbial properties.

f) Building stone: The stones that are used for the construction of buildings, walls, or any structure are known as building stones. Stones are used as an aggregate in construction, as a decorating material to decorate buildings (like marble, and slate), and for many more purposes. Slate, marble, limestones, etc are generally used as building stones. Some common

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uses of building stones. Construction of residential and public buildings, walls, columns, dams, abutments, and bridges, For architectural and ornamental requirements on the structure, road construction and railways, medicines in Ayurveda, manufacturing of metals like iron, stone arts, making statues, etc.

g) Iron ore : Earth's most important iron ore deposits are found in sedimentary rocks. They formed from chemical reactions that combined iron and oxygen in marine and fresh waters. The two most important minerals in these deposits are iron oxides: hematite (Fe_2O_3) and magnetite (Fe_3O_4). These iron ores have been mined to produce almost every iron and steel object that we use today - from paper clips to automobiles to the steel beams in skyscrapers. Some common uses of iron ore are it is used to manufacture steels of various types. It's used in powdered iron, metallurgy products, magnets, high-frequency cores, auto parts, catalysts. Radioactive iron (iron 59) is used in medicine and in biochemical and metallurgical research. Iron blue is used in paints, printing inks, plastics, cosmetics and paper dyeing. Black iron oxide is used as pigment, polishing compounds, metallurgy, medicine and magnetic inks.

h) Manganese: Manganese is a silver metallic element with an atomic number of 25 and a chemical symbol of Mn. It is not found as an element in nature. It occurs in many minerals such as manganite, sugilite, purpurite, rhodonite, rhodochrosite, and pyrolusite. Ore is essential to iron and steel production. It's also used in the making of manganese ferroalloys, Construction, machinery and transportation, Manganese is used also as an alloy with metals such as aluminum and copper. Important nonmetallurgical uses include battery cathodes, soft ferrites used in electronics, micronutrients in fertilizers, micronutrients in animal feed, water treatment chemicals, colorant for automobile undercoating, bricks, frits, glass, textiles, and tiles. The product "manganese violet" is used for the coloration of plastics, powder coatings, artist glazes, and cosmetics.

i) Ochre: Ochre is one of a variety of forms of iron oxide which are described as earthbased pigments. These pigments, used by ancient and modern artists, are made of iron oxyhydroxide, which is to say they are natural minerals and compounds composed of varying proportions of iron (Fe_3 or Fe_2), oxygen (O) and hydrogen (H). Prehistoric and Historic Uses Natural iron-rich oxides provided red-yellow-brown paints and dyes for a

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wide range of prehistoric uses, including but in no way limited to rock art paintings, pottery, wall paintings and cave art, and human tattoos. Ochre is the earliest known pigment used by humans to paint our world--perhaps as long ago as 300,000 years. Other documented or implied uses are as medicines, as a preservative agent for animal hide preparation, and as a loading agent for adhesives (called mastics).

j) **Zeolite:** Zeolites are microporous, aluminosilicate minerals commonly used as commercial adsorbents and catalysts. They are tetrahedral, three dimensional, crystalline minerals of aluminosilicate earth metals and belong to the acidic catalysts. The cage-like structure of zeolites makes them useful in all sorts of ways. One of the biggest everyday uses for zeolites is in water softeners and water filters. Zeolites are also used in animal feed, cat litter, cement, aquaculture (fish hatcheries for removing ammonia from the water), water softener and purification, catalysts, odor control and for removing radioactive ions from nuclear plant effluent. About 80% of Zeolite used as Animal feed, Pet Litter, Water purification, Odor control. Other uses are Fungicide or pesticide carrier, Oil absorbent / Desiccant, Catalyst, Horticulture, Aquaculture (keeps water clean in the presence of overpopulation).


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17. DEMAND AND SUPPLY OF THE MINERAL IN THE LAST THREE YEARS

Whole of the district is occupied by basalt and its weathering products soil Muram. Other mineral include Lime Kankar and Marble. Thus mineral potentials for road metal and other building material are immense. Bajri & black sand is associated with river sand. It is derived from the weathering and erosion of basalt.

DEMAND & SUPPLY OF MINERALS IN LAST THREE YEARS

Minerals Name	Year wise Supply according to Demand			Remark
	2019-20	2020-21	2021-22	
Minor Mineral				
Stone/Gitti	612233 m ³	535265 m ³	624257 m ³	Minor mineral such as stone /Gitti, Murram, Lime Kankar and Marble are supply basis of demand on the marke
Murram	214871 m ³	133435 m ³	519606 m ³	
Lime Kankar	2000 m ³	-	-	
Marble	1200 m ³	-	1266 m ³	

18. MINING LEASES MARKED ON THE MAP OF THE DISTRICT

Mining Lease of Mineral such as Stone (Gitti), Murram, Quartzite, Lime kankar and Marble, Marked on the Map of the District are enclosed as Plate No-8, 9, 10, 11 respectively. Location of above Quarry Lease area in Digital format (Google Earth .Kml format) in DVD are also provided.


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19. DETAILS OF THE AREA OF WHERE THERE IS A CLUSTER OF MINING LEASES VIZ. NUMBER OF MINING LEASES, LOCATION (LATITUDE AND LONGITUDE)

Cluster	S.NO.	Name of the Mineral	Name of the lessee	Address & Contact No. of Lessee	Area of Mining Lease (ha)	Period of Mining lease	Location of the Mining Lease (Latitude & Longitude)
1	1	Stone	M/s. Uday Mines	ED Skim No. 94 Barfani Dham Chouraha Indore	4	27/10/2016 to 26/10/2026	23°04'50.68"N 76°09'31.66"E
	2	Stone	Shri Ashok Singh S/o Bhagvan Singh Goud	Radha Ganj Dews	4	07/12/2016 to 06/12/2026	23°04'52.06"N 76°09'19.28"E
	3	Stone	Shri Surendra Singh S/o Soubhag singh goud	Radha Ganj Dews	4	07/12/2016 to 06/12/2026	23°04'48.76"N 76°09'25.55"E
2	4	Stone	M/s. Uday mines	ED Skim No. 94 Barfani Dham Chouraha Indore	2	22/12/2017 to 21/12/2027	23°04'48.48"N 76°09'31.63"E
	5	Stone	Shri Babu lal s/o Ambaram patwala	91 Sukh nivas indore	4	03/07/2015 to 02/07/2025	23°3'31.996"N 76°13'17.489"E
	6	Stone	Shri Ashish S/o Babu lal Patwala	91 Sukh nivas indore	4	03/07/2015 to 02/07/2025	23°3'31.996"N 76°13'17.489"E
	7	Stone	Shri Firoz S/o Akbar Patel	13, Dewas Road tonkhurd	4	24/08/2015 to 23/08/2025	23°03'37.2"N 76°13'28.2"E
	8	Stone	Shri Mukit S/o Abdul Qureshi	7 Tilak Nagar Dewas	1	22/06/2018 to 21/06/2028	23°03'30.46"N 76°12'54.89"E
	9	Stone	Shri Narayan S/o Punamchand	Vikas Nagar Dewas	4	03/07/2019 to 10/02/2029	23°3'31.25"N 76°12'58.47"E


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10	Stone	Shri Pappu Chandra S/o Prathvi Chandra Goud	Gram Shankargadh Tah. Dewas Dist - Dewas	3	04/04/2018 to 03/04/2028	22°59'18.214"N	76°8'45.616"E
11	Stone	Praveen S/o Nirankar Shrivastva	6 Forest Colony Dewas	3	06/04/2018 to 05/04/2028	22°59'06.71"N	76°09'34.78"E
12	Stone	Smt. Avantibai S/o Laxman Girwal	1/2 Civil Line Dewas	2	06/04/2018 to 05/04/2028	22°59'09.57"N	76°09'48.36"E
13	Stone	M/S. S.D. Infra. Partner Shubham Shukla S/o Avadh Narayan Shukla	Indore	2	07/07/2018 to 06/07/2028	22°59'31.89"N	76°08'41.89"E
14	Stone	Shri Mahendra S/o Valjibhai Patel	Gujrat	4.25	21/08/2018 to 20/08/2028	22°59'28.53"N	76°08'37.58"E
15	Stone	Shri Shailendra Singh S/o Shivraj Singh Goud	Shipra	2	23/08/2018 to 22/08/2028	22°59'21.25"N	76°08'42.99"E
16	Stone	Shri Gulrez S/o Liyakat Qureshi Add. 9 Tilak Nagar Dewas	9 Tilak Nagar Dewas	2.832	17/06/2016 to 16/06/2026	23°00'12.1"N	76°10'58.6"E
17	Stone	Shri Hemendra S/o Dhansingh Thakur	Gram - Bhourasa Tah. Sonkatch	2.832	29/06/2016 to 28/06/2026	23°0'14.62"N	76°10'59.40"E
18	Stone	Shri Sarfaraz S/o Moinuddin	Islampura Dewas	2.5	21/04/2017 to 20/04/2027	23°00'15.57"N	76°10'38.93"E
19	Stone	Shri Vipin S/o Ramesh chandra Sharma	47, Moti Bangla Dewas	3	31/08/2017 to 30/08/2027	23°00'15.57"N	76°10'38.93"E
20	Stone	Shri Parmendra S/o Gajraj Singh	Gram - Shankargadh Tah- Dewas Dist - Dewas	2	31/10/2017 to 30/10/2027	23°00'24.23"N	76°10'55.81"E

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21	Stone	Smt. Monika W/o Vipin Sharma	Moti Bagla Dewas	2	16/05/2012 to 15/05/2022	23°1'11.7"N	76°09'54.8"E
22	Stone	Shri Vijaygiri S/o Prakash Giri Goswami	Dewas	2	14/08/2015 to 13/08/2025	23°1'8.13"N	76°10'03.22"E
23	Stone	Shri Himmat Singh S/o Antar singh	Radha Ganj Dews	2	19/10/2015 to 18/10/2025		
24	Stone	Shri Rahis S/o Ibrahim Ali	17 Moti Bagla Dewas	3	05/01/2016 to 04/01/2026	23°01'16.70"N	76°11'07.44"E
25	Stone	Shri Rajkamal S/o Shri Kailash Joshi	87/2 Moti Bagla Dewas	1.5	16/11/2016 to 15/11/2026	23°00'47.27"N	76°11'02.80"E
26	Stone	Shri Himmat Singh S/o Antar singh	Radha Ganj Dews	2	23/05/2017 to 22/05/2027	23°01'18.48"N	76°09'53.08"E
27	Stone	Shri Himmat Singh S/o Antar singh	Radha Ganj Dews	4	27/05/2017 to 26/05/2027	23°00'42.67"N	76°10'09.91"E
28	Stone	Smt. Seema W/o Shaikh	58 Ram Nagar Dewas	3	24/02/2019 to 23/02/2029	23°00'30.86"N	76°08'37.00"E
29	Stone	Shri Ajhar Shaikh S/o Ayyub Shaikh	58 B Ram Nagar Dewas	2.7	09/01/2017 to 08/01/2027	23°01'47.43"N	76°11'19.14"E
30	Stone	Shri Banesingh S/o Kesharsingh Thakur	Panda Tahsil Mahu Dist. Indore	2	02/01/2016 to 01/01/2026	23°00'12.23"N	76°09'32.11"E
31	Stone/ MURRAM	Shri Kirtiraj singh S/o Shri Ajaysingh Parihar	80, Radhaganj Dewas	2	29/12/2021 to 28/12/2031	22°59'34.839"N	76°8'33.944"E
32	Stone/ MURRAM	Shri Ranjeet singh S/o Kalusingh	27, Badridhan Nagar Dewas	1.94	29/12/2021 to 28/12/2031	22°59'36.153"N	76°8'29.451"E


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4	33	Stone	Shri pranav Traders Pro Kesharsingh Thakur	Panda tahsil Mahu Dist. Indore	4	29/12/2021 to 28/12/2031	23°00'29.56"N	76°10'18.09"E
	34	Stone	Vishvjeet singh S/o Tanwar Singh Chouhan	Gram Rajoda Tah. Dewas Dist - Dewas	5.53	10/11/2018 to 09/01/2028	22°56'11.19"N	76°07'50.99"E
	35	Stone	M/s. S.B.A. StonePvt. Ltd. Partner Shri Bane singh S/o Keshar Singh	Gram - Panda Tah - Indore Dist - Indore	2.5	05/12/2020 to 04/12/2030	22°56'01.02"N	76°07'48.22"E
	36	Stone	T.N.C. Enterprises Partner - Jitendra Singh Chouhan	Gram - Pigdambar Tah - Indore Dist - Indore	4.69	02/12/2020 to 01/12/2030	76°07'39.84"E	22°56'05.30"N
	37	Stone	Shri Karan S/o Suresh Bhatiya	1 Navlakha A.B. Road Indore	2.25	20/09/2018 to 19/09/2028	22°55'52.72"N	76°8'1.65"E
	38	Stone	Shri Babu lal s/o Ambaram Patwala	91 Sukh nivas indore	3.74	13/07/2019 to 12/07/2029	22°53'29.97"N	76°07'17.48"E
	39	Stone	Smt. Asha W/O Shri Sunil Patwala,	91 Sukh nivas indore	4	15/07/2019 to 14/07/2029	23°6'22.63"N	75°59'4.30"E
	40	Stone	M/s. Treding Company Shri Indrajeet Singh Bais	Sonkatch	4	13/04/2017 to 12/04/2027	22°53'29.97"N	76°07'17.48"E
	41	Stone	M/s. Balaji Devlopers Sumit Mittal	7 A B.J. Vihar Indore	3.31	06/05/2015 to 05/05/2025	22°44'0.13"N	76°16'28.73"E
	42	Stone	M/s. Balaji Devlopers Sumit Mittal	7 A B.J. Vihar Indore	4.5	31/08/2020 to 30/08/2030	22°44'07.60"N	76°16'24.70"E
6	43	Stone	M/s K.G. Gupta Pro. Krishna Gopal Gupta	Radhakrishna Appartment, Bima Nagar, Indore	4.47	20/04/2017 to 19/04/2027	22°43'52.68"N	76°16'02.27"E

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7	44	Stone	Shri Narsingh S/o Jagdish Bindal	MM.G. Road Kannod	2	19/05/2015 to 18/05/2025	22°38'17.60"N	76°48'41.78"E
	45	Stone	Shri Ramsingh Saran S/o Jsaram Saran	Ramnagar Tahsil luni Dist. Jodhpur (Rajasthan)	2.9	13/01/2022 to 12/01/2031	22°37'56.64"N	76°48'58.00"E
8	46	Stone	Shri Narsingh Bindal S/o Shri Jagdish Bindal	154, MG Road Kannod	1.99	21/08/2020 to 20/8/2030	22°38'12.35"N	76°48'44.04"E
	47	Stone	M/s Jyoti Construction Company Part. Deepak S/o Gourishankar Agrawal	Chanak Chouk Dist. Harda	4	01/04/2020 to 31/04/2030	22°37'04.87"N	76°48'47.76"E
9	48	Stone	Shri karan S/o Rajesh Agrawal	Itwara Bajar Timarni Dist Harda	2	03/09/2021 to 02/09/2031	22°37'15.07"N	76°48'30.70"E
	49	Stone	M/s. Jyoti Construction Proprieter - Deepak Agarwal	Chandak Chouraha Harda	1	27/02/2017 to 26/02/2027	22°38'56.40"N	76°59'26.92"E
10	50	Stone	Shri Aman S/o Mahesh Patel	Sihor	3.6	21/08/2020 to 20/08/2030	22°38'35.64"N	76°59'23.26"E
	51	Stone	Shri Jayram S/o Ramnivas Jat	Dhakad Mohalla Jiyagoan Khategoan	1	24/08/2015 to 23/08/2025	22°38'59.28"N	76°59'18.67"E
10	52	Stone	Shri Rohit S/o Mukesh Sisodiya	Shri Ram Mandir Road Khategoan	2	05/07/2018 to 06/07/2028	22°38'45.31"N	76°59'27.55"E
	1	Murram	T. R. STONE CRUSING COMPANY PROPRIETER - DIMPY AGARWAL	Gram - Shankargadh Tah- Dewas Dist - Dewas	3	15/07/2018 to 14/07/2028	22°59'04.17"N	76°08'31.56"E
1	Murram	Shri Prem Singh S/o Biharilal Chouhan	Gram - Shankargadh	3	24/08/2018 to 23/08/2028	22°59'04.18"N	76°08'32.19"E	

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				Tah- Dewas Dist - Dewas					
3	Murram	Shri Dharmendra S/o Makhan Patel	131 Bhagyshri Colony Indore	3	22/08/2018 to 21/08/2028	22°59'08.26"N	76°08'28.13"E		
4	Murram	Shri Sandesh Goyal	15 Agrasen Nagar Dewas	1	14/08/2017 to 13/08/2027	22°58'34.12"N	76°09'06.17"E		
5	Murram	Shri Subhash Dabi	Gram - Barlai Jagir Tahsil - Sawer Dist Indore	1	08/11/2017 to 07/11/2027	22°58'36.24"N	76°09'01.50"E		
6	Murram	Shri Anil S/o Anupsingh Sikarwar	16/7 Radha Ganj Dewas	1	28/12/2017 to 27/12/2027	22°58'39.22"N	76°08'59.37"E		
7	Murram	M/s. Uday mines	ED Skim No. 94 Barfani Dham Chouraha Indore	3	06/04/2018 to 05/04/2028	22°58'37.93"N	76°08'48.31"E		
8	Murram	Shri Pappu Chand S/o Prathvi Singh Goud	Gram - Shankargadh Tah- Dewas Dist - Dewas	2	14/07/2018 to 13/07/2028	22°58'42.51"N	76°08'52.14"E		
1	Quartzite	M/s Indore Pvt Ltd Director Tajendrapal singh	Sukras	4.99	16/02/18 to 15/02/28	22°39'40.91"N	76°49'46.44"E		
2	Quartzite	M/s Indore Pvt Ltd Director Tajendrapal singh	Sukras	3.5	16/02/18 to 15/02/28	22°39'32.02"N	76°50'12.59"E		
3	Quartzite	M/s Digiana Minerals and Mines Pvt Ltd Director Tjendrapal singh	Sukras	3	16/02/18 to 15/02/28	22°39'35.63"N	76°50'01.28"E		
4	Quartzite	M/s Digiana Mines and Minerals Pvt Ltd Director Tajendrapal singh	Sukras	4.9	16/02/18 to 15/02/28	22°39'17.04"N	76°49'25.49"E		

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5	Quartzite	M/s Digiana Mines and Minerals Pvt Ltd Director Tajendrapal singh	Sukras	3.17	16/02/18 to 15/02/28	22°39'37.47"N	76°49'29.14"E
6	Quartzite	M/s Digiana Industries Pvt Ltd Director Tajendrapal Singh	Sukras	2.34	16/02/18 to 15/02/28	22°39'42.61"N	76°49'26.57"E
7	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal singh	Sukras	2.21	16/02/18 to 15/02/28	22°39'34.18"N	76°49'49.44"E
8	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal singh	Sukras	4.87	16/02/18 to 15/02/28	22°39'19.05"N	76°49'15.69"E
9	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal singh	Sukras	4.87	16/02/18 to 15/02/28	22°39'21.90"N	76°49'04.03"E
10	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal singh	Sukras	4	04/08/18 to 03/08/28	22°39'27.19"N	76°49'05.09"E
11	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal singh	Sukras	9.99	04/08/18 to 03/08/28	22°39'20.73"N	76°49'47.27"E
12	Quartzite	M/s Digiana Industries Pvt Ltd Director Tajendrapal Singh	Sukras	4	04/08/18 to 03/08/28	22°39'26.42"N	76°49'17.77"E
13	Quartzite	M/s Digiana Mines and Minerals Pvt Ltd Director Tajendrapal singh	Sukras	9.85	04/08/18 to 03/08/28	22°39'23.11"N	76°49'28.99"E
14	Quartzite	M/s Digiana Infra Pvt Ltd Director Tjendrapal singh	Sukras	3.7	04/08/18 to 03/08/28	22°39'42.26"N	76°49'37.34"E
15	Quartzite	M/s Digiana Industries Pvt Ltd Director Tajendrapal Singh	Nanasa	4	04/08/18 to 03/08/28	22°39'21.27"N	76°48'59.59"E


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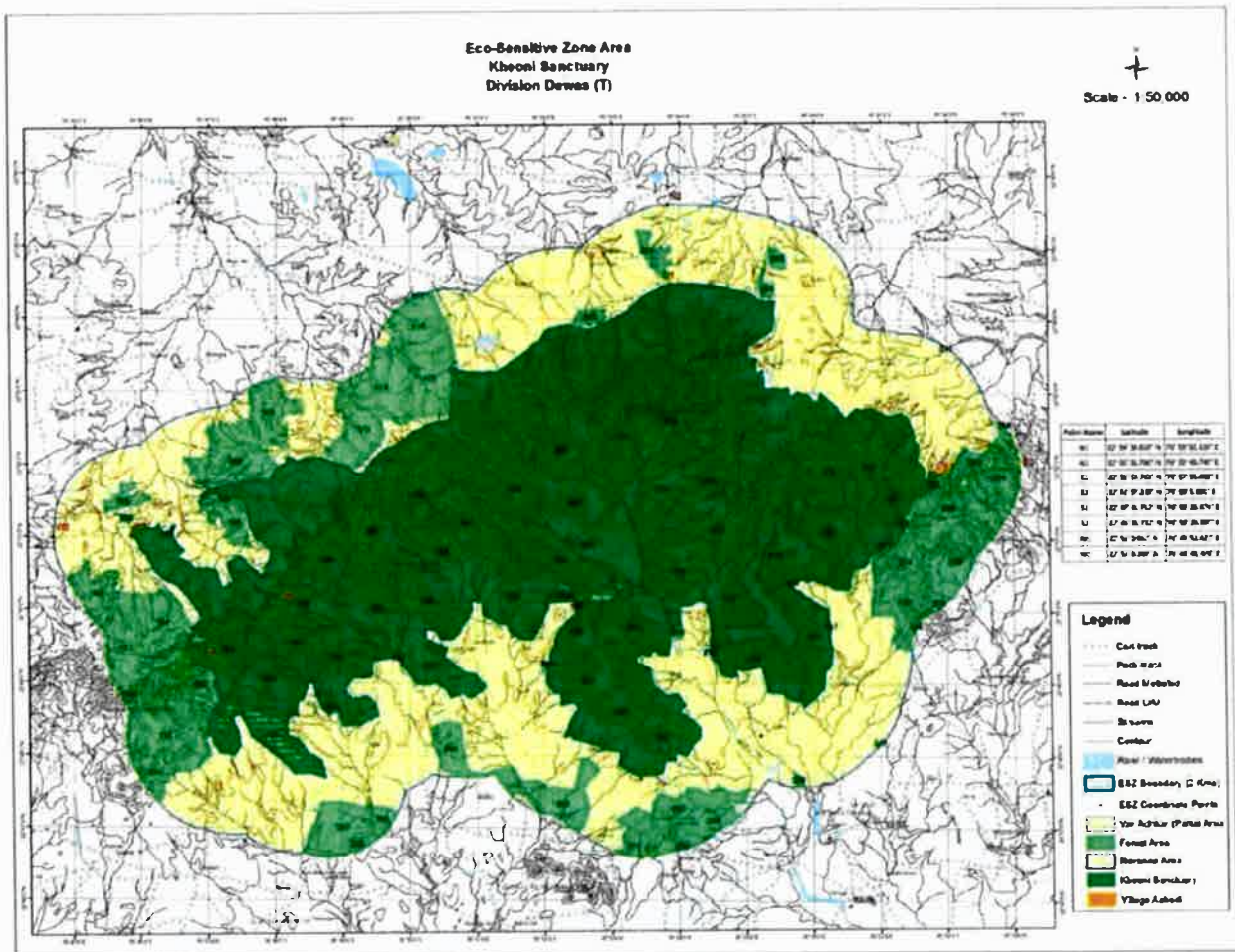
16	Quartzite	M/s Digiana Industres Pvt Ltd Director Tajendrapal Singh	Nanasa	5.85	04/08/18 to 03/08/28	22°39'18.57"N	76°49'05.70"E
17	Quartzite	M/s Digiana Corporation Pvt Ltd Director Tjendrapal singh	Nanasa	4	04/08/18 to 03/08/28	22°39'25.31"N	76°48'48.31"E
18	Quartzite	M/s Digiana Industres Pvt Ltd Director Tajendrapal Singh	Sukras	8	04/08/18 to 03/08/28	22°39'16.12"N	76°50'01.50"E


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

Kheoni is the only wildlife sanctuary of District Dewas, located in Kannod Tehsil of Dewas district and parts of Sehore district of Madhya Pradesh. Sanctuary was established in the year 1974. It is spread over an area of 134.778 square kilometres. Eco-sensitive zone is spread 2 km along the perimeter of Kheoni wildlife sanctuary and its area is 160 Square kilometre. It is bounded by Sehore forest range in North, North East boundary of Kannod forest range of district Dewas in East, North boundary of forest compartment no 184 to 222 in South and 184 to 186 forest compartment Kannond and 165 forest compartment of Asta range of District Sehore in west.



MAP OF ECO-SENSITIVE ZONE OF KHEONI WILDLIFE SANCTUARY

It is a dry deciduous forest, consisting mainly of *Tectona grandis*, *Anogeissus latifolia* and *Terminalia alata* communities and their associated flora. The aforesaid Sanctuary is rich

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in bio-diversity, 69 tree species, 23 herbs and 12 shrubs species and climbers parasites, grasses and bamboo are also found in the said Sanctuary; 24 mammals, 21 birds, 5 reptiles species have been recorded in Kheoni Wildlife Sanctuary which is inhabited by all the usual animals of the region, such as leopard (*Panthera pardus*), Wolf (*Canis lupus*), Jackal (*canis aureus*), Indian fox (*Vulpes bengalensis*), striped hyena (*Hyaena hyaena*) among carnivores and Nilgai (*Boselaphus tragocamelus*), Chinkara (*Gazella gazella bennetti*), wild pig (*Sus scrofa*), barking deer (*Muntiacus muntjac*), etc. amongst herbivores.

The Kheoni Wildlife Sanctuary is extremely rich in flora and fauna and in biodiversity, the said Sanctuary is the important part of corridor which helps in movement of wildlife from Satpura Tiger Reserve to Melghat Tiger Reserve and movement of wildlife from eastern Madhya Pradesh to western Madhya Pradesh. The aforesaid Sanctuary has southern tropical dry deciduous teak forest as per Champion and Seth Classification and the trees found in the sanctuary include *Tectona grandis*, *Pterocarpus marsupium*, *Terminalia allata*, *Anogeissus latifolia*, *Acacia catechu*, etc.

The important faunal species of the Kheoni Wildlife Sanctuary include Wolf, Indian Fox, Striped hyena, Spotted Deer, Sambar deer, Chinkara, Wild pig, Chowsingha. It is necessary to conserve and protect the area, the extent and boundaries of which are specified in paragraph 1 of this notification, around the protected area of Kheoni Wildlife Sanctuary as Eco-sensitive Zone from ecological, environmental and biodiversity point of view and to prohibit industries or class of industries and their operations and processes in the said Eco-sensitive Zone;

The best time to visit the sanctuary is from April to June. Near Kheoni Wildlife Sanctuary, there is an old temple of Lord Shiva which is also the centre of attraction of this place. People from far off places and also from Kheoni come to see the ancient shrine of Lord Shiva and also have a bath in the 'Bal-Ganga River' which flows in the forest village Kheoni.

A draft notification was published in the Gazette of India, Extraordinary, vide notification of the Government of India in the Ministry of Environment, Forest and Climate Change number S.O.3345 (E), dated the 12th October, 2017, inviting objections and suggestions from all persons likely to be affected thereby within the period of sixty days from date on which copies of the Gazette containing the said notification were made available to

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the public, copies of the Gazette containing the draft notification were made available to the public on the 16th October, 2017, no objections and suggestions were received from the persons and stakeholders in response to the draft notification.

In exercise of the powers conferred by sub-section(1) and clauses (v) and (xiv) of subsection (2) and sub-section (3) of section 3 of the Environment (Protection) Act 1986 (29 of 1986) read with sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby notifies an area to an extent up to two kilometers from the periphery of the Kheoni Wildlife Sanctuary in the State of Madhya Pradesh as the Kheoni Wildlife Sanctuary Eco-sensitive Zone. Vide Gazette Notification MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE dated 11/05/2018.

List of Village of district Dewas which falls in ecosensitive zone of Kheoni Wildlife sanctuary.


S.No.	Name of Village	District	Latitude	Longitude
1.	Bhilai	Dewas	22°48'00.11"	76°47'18.20"
2.	Kolari	Dewas	22°48'16.33"	76°48'29.75"
3.	Satal	Dewas	22°49'25.83"	76°48'33.06"
4.	Omkari	Dewas	22°48'49.56"	76°49'54.72"
5.	Kakardi	Dewas	22°48'06.58"	76°51'48.73"
6.	Nandadai	Dewas	22°50'33.40"	76°51'11.96"
7.	Utwali	Dewas	22°47'47.80"	76°51'11.80"
8.	Chikalapat	Dewas	22°48'28.27"	76°52'28.19"
9.	Sagoya	Dewas	22°46'57.37"	76°52'42.38"
10.	Kalibai	Dewas	22°47'05.68"	76°55'11.64"
11.	Richi	Dewas	22°48'30.44"	76°55'08.22"
12.	Kheoni Khurd	Dewas	22°50'05.46"	76°54'34.70"
13.	Patrani	Dewas	22°48'22.42"	76°54'57.11"
14.	Nivardi	Dewas	22°48'39.17"	76°56'10.21"
15.	Machwara	Dewas	22°50'48.72"	76°56'50.65"


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List of activities prohibited within Eco-sensitive Zone.

S.No.	Activity	Remarks
1.	Commercial mining, stonequarrying and crushing units.	(a) All new (minor and major minerals), stone quarrying and crushing units shall be prohibited except for meeting the domestic needs of bona fide local residents including digging of earth for construction or repair of houses and for manufacture of country tiles or bricks for housing and for personal consumption; (b) The mining operations shall be carried out in accordance with the order of the Hon'ble Supreme Court dated the 04th August, 2006 in the matter of T.N. Godavarman Thirumulpad Vs. UOI in W.P. (C) No.202 of 1995 and dated 21st April, 2014 in the matter of Goa Foundation Vs. UOI in W.P. (C) No.435 of 2012.
2.	Setting of industries including new oil and gas exploration causing pollution (water, air, soil, noise, etc.)	(a) No new industries and expansion of existing polluting industries in the Eco-sensitive Zone shall be permitted. (b) Only non-polluting industries shall be permitted within Eco-sensitive Zone as per classification of industries in the guidelines issued by the Central Pollution Control Board in February 2016, unless otherwise specified in this notification.
3.	Establishment of major thermal and major hydroelectric project.	Prohibited (except as otherwise provided) as per applicable laws.
4.	Use or production or processing of any hazardous substances.	Prohibited (except as otherwise provided) as per applicable laws.
5.	Discharge of untreated effluents in natural water bodies or land area.	Prohibited (except as otherwise provided) as per applicable laws.
6.	Setting of new saw mills.	No new or expansion of existing saw mills shall be permitted within the Eco-sensitive Zone.
7.	Setting up of brick kilns.	Prohibited (except as otherwise provided) as per applicable laws.
8.	Commercial use of fire wood.	Prohibited (except as otherwise provided) as per applicable laws.
9.	Use of plastic bags.	Prohibited (except as otherwise provided) as per applicable laws.


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21. IMPACT ON THE ENVIRONMENT (AIR, WATER, NOISE, SOIL, FLORA & FAUNA, LAND USE, AGRICULTURE, FOREST ETC.) DUE TO MINING ACTIVITY

Minerals are non-renewable and limited natural resources and constitute vital raw materials in a number of basic and important industries. The extraction of minerals from nature often creates imbalances, which adversely affect the environment. The key environmental impacts of mining are on wildlife and fishery habitats, the water balance, local climates & the pattern of rainfall, sedimentation, the depletion of forests and the disruption of the ecology. Mining activities including prospecting, exploration, construction, operation, maintenance, expansion, abandonment, decommissioning and repurposing of a mine can impact social and environmental systems in a range of positive and negative, and direct and indirect ways. Mine exploration, construction, operation, and maintenance may result in land-use change, and may have associated negative impacts on environments, including deforestation, erosion, contamination and alteration of soil profiles, contamination of local streams and wetlands, and an increase in noise level, dust and emissions. Mine abandonment, decommissioning and repurposing may also result in similar significant environmental impacts, such as soil and water contamination. Beyond the mines themselves, infrastructure built to support mining activities, such as roads, ports, railway tracks, and power lines, can affect migratory routes of animals and increase habitat fragmentation..Mining can also have positive and negative impacts on humans and societies. Negative impacts include those on human health and living standards, for example. Mining is also known to affect traditional practices of Indigenous peoples living in nearby communities, and conflicts in land use are also often present, as are other social impacts including those related to public health and human well being.


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The impacts of various mining and associated activities on the environmental components are discussed briefly in the following paragraphs:

Ecological Impacts of Opencast Mining:


1. Removal of all vegetation (flora) and thereby fauna from the area required for mining and other purposes.
2. Pollution of water in the surrounding water bodies due to leaching from overburden dumps and due to the pollutants from the other activities. This affects the aquatic ecology of these water bodies.
3. Dust in atmosphere, contributed by mining and associated activities, when deposited on the leaves of the plants in the surrounding areas may retard their growth.
4. Noise and vibrations due to blasting and operation of the machines drive away the wild animals and birds from the nearby forests.
5. Water scarcity caused due to the impacts of opencast mining on water regime affects the growth of vegetation and agriculture in and around the complexes.

Ecological Impacts of mineral handling and preparation:

1. Land clearance of almost all vegetation in the area earmarked for the construction of the mineral handling and preparation units.
2. Disturbances to fauna of the nearby areas from the noise and vibrations from the mineral handling and preparation units.
3. Impacts on aquatic ecology due to discharge of effluents from the units.
4. Retardation in vegetation growth in neighboring areas due to deposition of dust on the leaves.

Ecological impacts of other activities:

1. The growth of mining complexes need land and thus affects the ecology of the land and the surrounding areas.
2. Cutting and felling of the trees to meet the timber requirement for various purposes.
3. Other impacts are similar to those of the activities mentioned above.


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Action to Minimize the Impacts:

It is evident that mining and associated activities have considerable impacts on the ecology of the mining and the surrounding areas. These impacts are evident in most of the mining complexes in the country. In order to minimize the impacts the following actions can be thought out:

1. Plan the mining layout so as to have the least requirement of the forest land and take necessary steps for reclamation of the mined out land so that the forest land taken for the mining purposes can be brought back to forest use.
2. Develop a suitable compensatory forest.
3. Cut the trees to the minimum possible extent and to preserve the flora it would be appropriate to uproot the trees and plants and then establish them at suitable locations, may be in the areas for compensatory afforestation.
4. Develop a flora bank to preserve the typical floral species of the area so that these can be replanted and developed as and when needed.
5. Surface layout of the mining complexes be designed to have the least impacts on the ecology of the area.
6. The noise and vibration producing activities in the mines and the associated activities be planned to have the minimum possible intensity and impact on the wild life in the surrounding area.


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22. REMEDIAL MEASURES TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT

The environment management plan is prepared for considering the impacts and areas of concern, this covers management of air quality, noise pollution, land use pattern, water pollution, socio-economic conditions etc.

Remedial Measures: It is noted from the above mentioned impacts of the different activities on the atmosphere that the mining and associated activities not only contribute to the ambient air pollution but also to the ambient noise situation. Atmospheric pollution due to the mining and associated activities can be minimized by planning the activities in such a manner that the generation of the pollutants is minimum possible. In addition provisions may be made for arresting the dust by making suitable green belts.

1 MANAGEMENT OF SOLID WASTE- At the end of the life of the mine the total waste should be utilized for reclamation of mined out area.

2 MANAGEMENT OF LAND: The mined out land should be reclaimed by means of back-filling and plantation. The other utilized area like dump, subgrade stacked will be reclaimed by means of plantation. The selection of plant species will be based on the local soil conditions.

3 MEASURES FOR CONTROLLING WATER POLLUTION- The cause and source of pollution of water in the area could be attributed mostly to the surface run-off during rainy season. The following measures should be taken for preventing possible water pollution..

- No overburden or loose sediments should be kept in the working benches particularly during monsoon months.
- Check dam should be provided around the overburden dump sites to arrest flow of loose sediments before discharge into the drainage system of the region.
- Peripheral drain should be proposed to arrest the inflow of run-off water to the quarry area.


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- A safety zone along both sides of the water course, if present in lease area, with dense afforestation should be proposed.
- A rain water harvesting structure should be built up in lower contour of the area, by which natural surface rain water.

4 MEASURES FOR CONTROLLING AIR POLLUTION- For the mine, the only pollution occurs from dust (SPM) during vehicular traffic, blasting, loading / unloading etc. As the particles are heavy in nature, they settle easily in the immediate vicinity. The following different control measures should be proposed. • Construction of well-compacted roads. • Regular water spraying on roads and waste dumps by tankers. • Provision of dust collectors for the drilling machines • Controlled blasting • Supply of dust masks for the drill operators • Plantation of wide leaf trees, creepers, tall grasses around quarry sites, waste dumps, roads, colony and other surrounding barren zones.

5 NOISE ABATEMENT- The following measures should be taken to analyzing the adverse impact of noise, though negligible within the project area and its surrounding region. • Proper and regular maintenance of vehicles, compressors and jack hammers. • Provision of supplying ear plugs for jackhammer drillers and compressor operators. • Provision of Green Belt (thick foliage) along the lease boundary and road.

6 SOCIO-ECONOMIC MEASURES- it is felt necessary to augment facilities in the fields of education, health and social awareness including concern for ecology. These are presented in a analyzing form in the following statement. It is necessary to create awareness among the people. The beneficial aspects of the following measures should be taken up by the mine as a periphery development of project. • Planting of trees and social forestry • Reduction in the consumption of fuel wood and encourage use of alternative fuels • Use of clean and boiled water • Reducing the consumption of alcohol • Saving from earnings • Personal hygiene • Regular health check In implementation of these measures, the mine management can contribute lot on the overall socioeconomic scenario of the region.


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23. RECLAMATION OF MINED OUT AREA (BEST PRACTICE ALREADY IMPLEMENTED IN THE DISTRICT, REQUIREMENT AS PER RULES AND REGULATION, PROPOSED RECLAMATION PLAN)

Necessity of Land Reclamation

It is necessary to reclaim the land affected by mining due to following reasons:

- To put the land into productive use like agriculture, forestry or recreational purposes.
- To check soil erosion from dump leading to destruction of watersheds and siltation of river.
- Accumulation of huge quantity of water in worked out pits may pose threat to life and property.
- To combat adverse visual impact.

Reclamation Planning Implementation: - For successful reclamation following points are to be considered

- Listing inventory of pre-mining condition.
- Monitoring flexibility of mining programme in the light of efficient land reclamation.
- Evaluation of the post mining requirements of the region and to decide on the needs and desire of the affected ground.
- To make reclamation planning suitable to technoeconomical and socio-political environment.
- To assess the physico- chemical characteristics of overburden.
- Extra cost of preservation, re-handling, spreading and leveling of subsoil and topsoil.
- Knowledge of hydrogeological/geomorphological conditions.
- Aesthetic and or historic value of land.

Restoration Strategy

Before considering the strategy for reclaiming mined out area it is important to decide in which form the reclaimed land would be made available for use either to the society or to the individual and strategy for reclamation will depend on one of the "possibilities" of land use after reclamation or combination thereof. The various "possibilities" are detailed below:

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1. Afforestation of mineral workings during and/or post mining operations is the major and most common after-use actioned through reclamation. Where specific usefulness of land could be decided, afforestation is normally planned through the site could have been considered for better possibilities of land use.

2. Agriculture : Some form of agricultural use may be possible in sites that are adjacent to farmland provided the soil and topography are favourable. With increasing knowledge and experience, however, it is becoming evident that top soil is not always essential to produce a productive soil. Agricultural and horticultural crops can be grown in a variety of materials. The range of possibilities include arable cropping, grazing in either productive low land or over upland pasture. The only constraint apart from the site is that there must be some integration into the local rural agricultural pattern. But it would be inappropriate to establish pasture in an area of arable cropping, even though the grazed pasture would recreate the soil structure more rapidly.

3. Housing and Industry : Many quarries specially of building materials which are near urban areas often lend themselves to development for residential accommodation or industrial purpose.

4. Sports and Intensive Recreation : All types of quarries either in urban or residential areas can provide extensive facilities for formal or informal recreation. Sometimes these abandoned quarries can be made for ideal recreation. But in a more formal way disused workings can provide excellent sites for sporting activities such as sports pitches, golf courses, race tracks, rifle and archery ranges and locating sailing, canoeing, swimming, angling and water skiing. Further some pits form natural amphitheatre so that pit edges can be shaped as seating areas. But quarries in rural areas have a similar potential for less intensive creation.

5. Land fill and Waste Disposal : Large quantities of waste and refuse are generated by urban and industrial centres where waste disposal assumes significant importance and poses great difficulty. The potential of worked out pits and quarries as great receptacle is of paramount help. Filled sites can be developed for other uses afterwards. However final contours after such filling should be compatible with surroundings and after - use requirements.

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6. Amenity, non-intrusive recreation and education: Most of Indian quarries are happened to be in rural area where recreation and amenity are restricted. These worked out quarries/mines can serve this purpose of sports and recreation as already have been discussed. They can be developed as parks, open water. wildness including picnicking.

7. Nature conservation and wild life refuges: Colonisation of natural and volunteer species of many direct quarries has led to the development of many attractive species • rich animal, plant and insect communities. This is usually fortutions rather than planted. Hence cost of reclamation is very little.

8. Water storage and supply: There are many quarries that contain water can provide a useful water storage facility and also facilitate ground recharge for agriculture and cultivation

These are the basic principles of rehabilitation which should always be followed.

- Prepare a rehabilitation plan prior to the commencement of mining.
- Agree on the long-term post-mining landuse objective for the area with the relevant government department, local government councils and private landowners. The land use must be compatible with the climate, soil topography of the final landform and the degree of management available after rehabilitation.
- Progressively rehabilitate the site, where possible, so that the rate of rehabilitation is similar to the rate of mining.
- Prevent the introduction of noxious weeds and pests. Minimise the area cleared for mining and associated facilities to that absolutely necessary for the safe operation of the mine.
- Reshape the land disturbed by mining so that it is stable, adequately drained and suitable for the desired long-term landuse.
- Minimise the long-term visual impacts by creating landforms which are compatible with the surrounding landscape.
- Reinstate natural drainage patterns disrupted by mining wherever possible.
- Minimise the potential for erosion by wind and water both during and following mining.

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24. RISK ASSESSMENT & DISASTER MANAGEMENT PLAN

In any mining operations, whether opencast and/or underground, work safety is taken care of by the Mines Act, the Coal Mines Regulation, 1957 and Rules framed there under. The risk to general public in the present case may arise from the following:

- i) Failure of dumps created by stones dug from incline cutting.
- ii) Flyrocks, during blasting operations, while driving inclines
- iii) Plying of trucks etc on public roads

Risk assessment is all about prevention of accidents and there is a need to be aware that there is the risk of an accident before steps can be taken to prevent it happening. It may not always be obvious that a workplace task could lead to an accident. This is why risk assessments are carried out. In risk assessment the words Hazards and Risks are often used. The Hazards and Risks are defined as below:

1. A hazard is anything that has the potential to cause harm.
2. The risk is how likely it is that a hazard will cause actual harm.

CONTROL MEASURES: -

In order to take care of hazard/disasters, the following control measures will be adopted:

A. General Measures

- All safety precautions and provisions of the Mine Act, 1955, the Coal Mines Regulation, 1957 and the Mines Rules, 1952 will be strictly followed during all mining operations;
- Entry of unauthorized persons will be prohibited;
- Fire fighting and first-aid provisions in the mines office complex and mining area;
- Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use;
- Initial training and refresher courses for all the employees working in hazardous

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premises; Under mines rules all employees of mines shall have to undergo the training at a regular interval;

- Working of mine, as per approved plans and regularly updating the mine plans;
- Cleaning of mine faces will be regularly done;
- Handling of explosives, charging and blasting will be carried out by competent persons only;11
- Provision of magazine at a safe place with fencing and necessary security arrangement;
- Regular maintenance and testing of all mining equipment as per manufacturer's guidelines;
- Suppression of dust on the haulage roads;
- Adequate safety equipment will be provided at explosive magazine;
- Increasing the awareness of safety and disaster through competitions, posters and other similar drives.

B. Activity Specific Measures:-

Blasting :- Most of the accidents from blasting occur due to the projectiles, as they may some times go even beyond the danger zone, mainly due to overcharging of the shotholes as a result of certain special features of the local ground. Vibrations also lead to displacement of adjoining areas. Dust and noise are also problems commonly encountered during blasting operations.

Measures during Drilling and Blasting

- Drilling and blasting in quarry shall be done in accordance with the provisions of Mines Act, rules and regulations;
- Adequate safety measures will be taken during blasting operations in the quarry so that men/machines are not affected;
- Ground vibration due to blasting will be controlled by following:

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1. Reducing the explosive charge per delay;
2. Reducing the spacing and burden per blast;
3. Reducing the amount of explosive charged per blast;
4. Proper controlled rock movement during blast by using suitable initiating sequence and delay.

- Shots will not be fired except during the hours of day light or until adequate provision is made for artificial lighting and the holes charged on a particular day will be fired on the same day;

- Shots, if fired after hours of daylight, should be muffled so that the flying fragments from the blasting material do not project beyond a distance of 10-m from the place of blasting;

- Adequate shelters or other protective structures will be provided to the workers at all times;

- The shot fire will give sufficient warning by effective signal over the entire area falling within a radius of 500-m;

- If a single shot exploder is used or if blasting is done with ordinary detonator, the shotfirer will not fire more than fifty shots in one shift, but if multishot exploder is used, the number can go up to eighty; and

- During the approach and progress of an electrical storm, adequate precaution will be taken.

Overburden Dumps : The overburden dumps may cause landslides. High overburden dumps created at the quarry edge may cause sliding of the overburden dump or may cause failure of the pit slope due to excessive loading, thereby causing loss of life and property.

Measures to Prevent the Danger of Overburden

- A stone wall should be built around the toe of each active dump at a distance of about 50-m from the toe;

- To prevent the failure of overburden slopes, especially during the rainy season, the following precautions will be taken;

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1. Proper terracing of the dump slopes, with a maximum bench height of 30-m; and 2. In flat areas where the dumping operations have come to an end, the overall slope angle should be flattened.

- Planting vegetation as early as possible over the overburden dump slopes;
- Provide drainage channels along the overburden dump toe for additional protection, in such a way that a distance of 15 m should be maintained left between the overburden dump and the bench; and
- If a mine is abandoned, the bench and overburden dump should be separated from each other by digging a trench of 6 to 10 m width.

Heavy Machinery: Most of the accidents during transport of dumpers, trucks, proclams and ripper dozers and other heavy vehicles are often attributable to mechanical failures and human errors.

Measures to Prevent Accidents due to Trucks and Dumpers

- All transportation within the main working area should be carried out under the direct supervision and control of the management;
- The vehicles must be maintained in good repairs and checked thoroughly at least once a week by a competent person authorized for this purpose by the management;
- Broad signs should be provided at each and every turning point specially for the guidance of the drivers at night;
- To avoid dangers while reversing the trackless vehicles, especially at the embankment and tripping points, all areas for reversing of lorries should, as far as possible, be made man free, and there should be a light and sound device to indicate reversing of trucks;
- A statutory provision of the fence, constant education, training etc. will go a long way in reducing the incidence of such accidents.

Water Logging : Water logging in the mine site can be avoided by adopting following measures:

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- Position of water body should be correctly known;
- Draining of mine water by suitable capacity pumps.

Disaster Management Plan:

Objective: 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/drills. The objective of the disaster management plan is to make use of the combined resources of the mine and the outside services to achieve the following:

1. Effect the rescue and medical treatment of casualties;
2. Safeguard other people;
3. Minimize damage to property and the environment;
4. Initially contain and ultimately bring the incident under control;
5. Identify any dead;
6. Provide for the needs of relatives;
7. Provide authoritative information to the news media;
8. Secure the safe rehabilitation of affected area;
9. Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the emergency.

In effect, it is to optimize operational efficiency to rescue rehabilitation and render medical help and to restore normalcy.


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25. DETAILS OF THE OCCUPATIONAL HEALTH ISSUES IN THE DISTRICT. (LAST FIVE-YEAR DATA OF NUMBER OF PATIENTS OF SILICOSIS & TUBERCULOSIS IS ALSO NEEDS TO BE SUBMITTED)

Silicosis is an occupational disease which profoundly affects the work productivity, economic and social well-being of workers, their families and dependents. It is a disease of the lungs. Continuous exposure to dust, silica, cement and fine glass particles inhaled while working in places such as stone or cement mines results in their build-up in the lungs. The disease is caused by exposure to silica, which is released as dust particles when engineered stone is mined or cut, drilled and polished. The patient's physical stamina dwindles over a period of time; he gets progressively weaker and eventually succumbs to death. The gravity of silicosis can be assessed from the fact that its patients have little hope of survival. They are left with no alternative other than to die a slow and painful death. The problematic areas are area of flagstone, granite and marble cutting /polishing units and mines, slate mining majorly. The Hindu Daily newspaper on Sept. 28, 2019, quoted "Miners of Ganj Basoda district in Madhya Pradesh suffering from silicosis on Friday decided to organise themselves to press for adequate compensation and appeal to the government for right treatment, instead of being treated for tuberculosis. Around 10,000 miners from 40 villages in the district have been facing the threat of the respiratory disease, said activist Pramod Pateriya in Bhopal. An occupational disease, silicosis is more prevalent among miners who are exposed to dust containing crystallised silica. Over time, it could build up in lungs, cause bloody coughing and breathlessness. Mothers usually take their children to sites where they break smaller stones.

The patient's physical stamina dwindles over a period of time; he gets progressively weaker and eventually succumbs to death. The gravity of silicosis can be assessed from the fact that its patients have little hope of survival. They are left with no alternative other than to die a slow and painful death. The dust hazard known as pneumoconiosis in industrial workers has existed for centuries. Various physical properties and chemical components of dust produce different changes in the lungs. Silicosis is the main offender and is the most common of all pneumoconioses. Improvement in industrial hygiene, techniques such as wet drilling, efficient ventilation, personal protection, and in some countries the use of aluminum

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dust for prophylaxis have prevented silicosis to some extent. In India, small-scale industries/mines are largely devoid of these preventive measures. There is a need to conduct detailed studies regarding the condition of mine area environment and mine related diseases. The National Human Rights Commission India (NHRC) published a detailed report in 2016 on the basis of studies they carried out, though it was mainly regarding dressed stone mining and cutting/ pencil workers. But is directly or indirectly related to or the suggestive measures may prove to be highly effective in dealing with the remedial measures. The report is an eye opener. Its guidelines and measures may prove to be highly effective to control the mines related diseases and they should also be implemented and should also be part of mine planning (Cortesy: NHRC_Interventions_on_Silicosis_27122016.pdf). The Department of health & family welfare, Govt. of Madhya Pradesh initiated State Strategic Plan for TB elimination in Madhya Pradesh.

Safety and occupational health Safety: Every proponent should envisaged to take up the following precautionary measures. • Strict observance of the provisions of Acts, Rules and Regulations in respect of safety both by management and the workers. • Proper planning and designing of work in order to reduce the risk of hazards. • Specific instructions and supervisions of working where danger due to fall of side. • Training of work persons and the officials. Occupational Health An organizational set up has been established by OMDC to comply the general health standards of the workers and the nearby villagers by undertaking Occupational health Surveillance on regular basis as a part and parcel of OHS and environmental management programme in line with EIA/EMP. The project proponent should do health survey of mine workers and its surrounding villagers to know the health status of mine workers as well as surrounding villagers.


As per record during last five year (01/04/2017 to 31/03/2022) there are 13,162 Tuberculosis Patients and no Silicosis patient found in the district.


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

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26. PLANTATION AND GREEN BELT DEVELOPMENT IN RESPECT OF LEASES ALREADY GRANTED IN THE DISTRICT

Plantation within the sanctioned area is one of the essential condition to grant EC & being done by the lease within the mines, which are currently operating as per the condition of environmental clearance. For every mine compliance report along with photographs is also being submitted. Plantation work has been done near the crusher machine and in the barrier zone, as well as the work of plant distribution and plantation is done in the nearby villages and areas. Usually, every major project is accompanied by proposals for plantation and development and protection of green belt areas. But proposals for small projects like QL do not emphasize much on these aspects. Thus, the proposal for plantation in the barrier zone of mine was made mandatory (Minor Mineral Rules 1996 and amended wide No.F-19-12013- Twelve-1, Dated 23rd March 2013). Every mine plan proposal has to accompany proposal for plantation and is binding on the lease holders. The lease holders are bound to plant the trees and maintain them during the tenure of lease. The proper monitoring and stringent actions are required to enforce planting of sapients and their sustainability. The district mine officials do the regular assessment of mine and monitor the development of mine, production and other issues detailed/approved in mine plan proposal. The satellite-based monitoring system (SMS) may also prove effective in timely monitoring. Further, open spaces should be kept around the mining area clusters, where plantation should be done to protect the environment. Here local plant species should be grown. Thus, botanists and environmentalist can also be involved. The approval of SEIAA is mandatory for every mining plan proposal. The MPPCB's report is also required before the commencement and continuation of mining operations. The Green belt land refers to an area that is kept in reserve for an open space, most often around larger cities. The main purpose of the green belt policy is to protect the land around larger urban centres from urban sprawl, and maintain the designated area for forestry and agriculture as well as to provide habitat to wildlife.


State Level Environment Impact
Assessment Authority, MP
13/02/21
A. S. Bhatnagar (M.P.)

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Lease wise Plantation Details

क्र.	पट्टेदार का नाम	ग्राम	खनिज	रकबा	खनन योजना में प्रस्तावित पौधों की संख्या	खदान क्षेत्र में लगाये गये पौधों की संख्या
1	2	3	4	5	6	7
1	श्री महेंद्र पिता कन्हैयालाल पटीदार नि: मानकुण्ड	लिम्बोदा	गिट्टी	1.000	50	20
2	श्री जयदीप पिता शंभुसिंह उदावत नि: 51, बिजासन रोड इंदौर	चापड़ा	गिट्टी	3.000	201	80
3	श्री जयदीप पिता शंभुसिंह उदावत नि: 51, बिजासन रोड इंदौर	चापड़ा	गिट्टी	3.000	201	72
4	श्री सुनील पाटीदार पिता रमेशचंद्र पाटीदार, निवासी शिवपुरमुंडला, हाटपिपल्या	गुराडियाकला	गिट्टी	1.000	50	35
5	श्री जावेद पिता कमाल उद्दीन कुरैशी नि: 2, भगतसिंह मार्ग कन्नौद	अंबाडा निजी भूमि	गिट्टी	1.000	1000	23
6	श्री नरसिंह पिता जगदीश चंद बिंदल नि: एमजी रोड कन्नौद	ननासा	गिट्टी	2.000	401	65
7	श्री गोपालकृष्ण अग्रवाल नि: पानीगांव	पानीगांव, निजी भूमि	गिट्टी	1.000	40	38
8	मेसर्स माँ नर्मदा स्टोन क्रेशर प्रो. राजेश सिरौही नि: वी. वी. गिरी वर्ड हरदा	सिरसोदिया	गिट्टी	3.840	1500	325
9	मेसर्स ज्योति कन्स. कंपनी पार्ट . दीपक पिता गौरीशंकर अग्रवाल नि: चाणक चौराहा हरदा,	कांकरिया	गिट्टी	1.000	1041	20

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10	मेसर्स कैलाश कृष्णा स्टोन क्रेशर प्रो. दीपक सारण नि: ग्राम अतरमा, तह. हँडिया जिला हरदा	कांकरिया	गिट्टी	1.860	400	35
11	श्री अमन पटेल पिता श्री महेश पटेल नि: रिछारियाकदीम तह: नसरुल्लागंज जिला सीहोर	कांकरिया	गिट्टी	3.600	1500	39
12	श्री जयराम पिता रमनिवास जाट नि: धाकड़ मोहल्ला जियागांव खातेगांव	जियागांव	गिट्टी	1.000	20	15
13	मेसर्स ज्योति कन्स. कंपनी पार्ट . दीपक पिता गौरीशंकर अग्रवाल नि: चाणक चौराहा हरदा,	सिरसोदिया	गिट्टी	4.000	100	60
14	मेसर्स. माँ रेवा स्टोन क्रेशर श्री प्रेम नारायण पिता राधेश्याम जाट नि: ग्राम निमासा तहसील सतवास जिला देवास	अमोदा	गिट्टी	1.400	72	35
15	श्री करण पिता राजेश अग्रवाल निवासी : इतवारा बाजार टिमरनी जिला हरदा	सिरसोदिया	गिट्टी	2.000	420	72
16	श्रीमति जुली पति प्रियंक जोशी निवासी : विक्रमपुर खातेगाव	कुसमानिया	गिट्टी	1.050	100	30
17	मेसर्स. वैराट इन्फ्रा प्रा.लि. इंदौर डायरेक्टर श्री लक्की पिता मुकेश पाटीदार	भमौरी	गिट्टी, एम सेंड	3.920	65	50
18	श्री रामसिंह पिता जसाराम सारण निवासी : रामनगर तहसील लूनी जिला जोधपुर (राजस्थान)	ननासा	गिट्टी	2.900	125	100
19	श्री शेर खाँ पिता मम्मू खाँ नि: पिपलदा, तहसील सतवास	अम्बाड़ा	गिट्टी	2.000	300	200
20	श्री विशाल पिता केदारमल अग्रवाल नि: जिला पंचायत के पीछे हरदा	मनोरा	गिट्टी	1.520	100	50

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21	मेसर्स के.जी. गुप्ता प्रो. कृष्ण पिता गोपाल गुप्ता नि: राधाकृष्ण अपार्टमेंट बीमा नगर इंदौर	कर्णावद	गिट्टी	4.470	250	35
22	श्री आशु जैन पिता श्री राजेश जैन निवासी 82, आष्टा रोड कन्नौद	मुहाई	गिट्टी	1.170	50	50
23	श्री नरसिंह बिंदल पिता श्री जगदीश बिंदल, निवासी 154, एमजी रोड कन्नौद	ननासा	गिट्टी	1.990	500	200
24	श्री रोहित पिता मुकेश सिसौदिया नि: श्री राम मंदिर मार्ग खातेगांव	कांकरिया	गिट्टी	2.000	1300	150

25	श्री गुलरेज पिता लियायात हुसैन कुरेशी नि: 9, तिलक नगर देवास	भौरासा	गिट्टी	2.832	60	35
26	श्री हेमेन्द्र सिंह पिता धनसिंह ठाकुर नि: भौरासा, टीएचएसआईएल सोनकच्छ	भौरासा	गिट्टी	2.832	100	50
27	श्री सर्फराज उड्डीन पिता मोइन उड्डीन नि: इस्लामपुरा देवास	भौरासा	गिट्टी	2.500	500	150
28	श्री जितेंद्र सिंह पिता भागवतसिंह सेंधव नि: ग्राम चौबरधीरा जागीर	रलायती निजी भूमि	गिट्टी	2.740	350	45
29	श्री महिपालसिंह बघेल नि: एम.जी. रोड सोनकच्छ	सरसौदा	गिट्टी	1.000	400	250
30	श्री विपिन पिता रमेश चंद्र शर्मा नि: 47, मोती बंगला देवास	भौरासा	गिट्टी	3.000	150	50
31	श्री परमेन्द्र सिंह पिता गजराजसिंह, नि: ग्राम शंकरगढ़ जिला देवास	भौरासा	गिट्टी	2.000	100	60
32	मेसर्स भूमि माइंस प्रो. जीवन यादव, नि: ग्राम पालनगर देवास	फावडा	गिट्टी	4.000	400	250
33	श्री कृपालसिंह सेंधव पिता हरनाथसिंह, नि: ग्राम अगेरा, तह- सोनकच्छ देवास	पिलवानी	गिट्टी	1.000	200	150

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34	श्री बाबूलाल पिता अम्बाराम पाटवाला नि: 91, सुखनिवास इंदौर	कन्हैरिया	गिट्टी	4.000	733	366
35	श्री आशीष पिता बाबूलाल पाटवाला नि: 91, सुखनिवास इंदौर	कन्हैरिया	गिट्टी	4.000	733	300
36	श्री विजयगिरी गोस्वामी पिता प्रकाशगिरी, नि: बाड़ोली देवास	राबडिया	गिट्टी	2.000	2000	500
37	श्री फिरोज पिता अकबर पटेल नि: 13, देवास रोड टोकखुर्द	कन्हैरिया	गिट्टी	4.000	700	500
38	श्री पोपसिंह पिता रामसिंह सेंधव(ठाकुर) नि: जिरवाय	टोकखुर्द	गिट्टी	3.760	600	400
39	श्री हिम्मतसिंह पिता अंतरसिंह नि: राधागंज देवास	राबडिया	गिट्टी	2.000	200	150
40	श्री रईस अली पिता इब्राहिम अली नि: 17, मोती बंगला देवास	बुदासा	गिट्टी	3.000	300	150
41	श्री कोषराज सिंह पिता अर्जुनसिंह नि: मुखर्जी नगर देवास	सेकली	गिट्टी	4.000	450	200
42	श्री रामसिंह पिता मोडसिंह नि: ग्राम कवड़ी	टोककला	गिट्टी	4.000	200	150
43	मेसर्स उदय माइंस प्रो, उदय पिता बालेश्वर मिश्रा, नि: EDस्कीम न.94, बर्फानीधाम चौराहा इंदौर	कलमा	गिट्टी	4.000	50	50
44	श्री राजकमल जोशी पिता कैलाश जोशी नि: 87/2, मोती बंगला देवास	बुधासा	गिट्टी	1.500	50	50
45	श्री अशोकसिनह गौड़ पिता भगवानसिंह नि: 5, राधागंज देवास	कलमा	गिट्टी	4.000	900	400
46	श्री सुरेन्द्रसिंह गौड़ पिता सौभागसिंहसिंह नि: 5, राधागंज देवास	कलमा	गिट्टी	4.000	750	300
47	श्री हिम्मतसिंह पिता अंतरसिंह नि: राधागंज देवास	राबडिया	गिट्टी	2.000	100	70

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48	श्री हिम्मतसिंह पिता अंतरसिंह नि: राधागंज देवास	जनोली	गिट्टी	4.000	100	50
49	मेसर्स उदय माइंस प्रो, उदय पिता बालेश्वर मिश्रा, नि: EDस्कीम न.94, बर्फानीधाम चौराहा इंदौर	कलमा	गिट्टी	2.000	100	45
50	श्री मुकित पिता आ रसीद कुरैशी नि: 07, तिलक नागर देवास	कन्हैरिया	गिट्टी	1.000	100	65
51	श्री अजय फुलेरिया पिता श्री जगदीश नि: ग्रा भैरवाखेड़ी तहसील टोकखुर्द	उपड़ी	गिट्टी	1.000	100	70
52	में. श्वेत लाभ माइंस अधिकृत हस्ताक्षरी - नितिन दुबे	पांडूतालाब	मार्बल	3.410	200	150
53	में. श्वेत लाभ माइंस अधिकृत हस्ताक्षरी - नितिन दुबे	पांडूतालाब	मार्बल	2.000	200	150
54	में. तिरुपति मिनरल्स पार्ट - हरीप्रसाद उपाध्याय	पोलाखाल	चुना कंकर	5.000	100	70
55	मेसर्स. माँ लक्ष्मी स्टोन क्रेशर पार्टनर श्री महिष ठाकुर	सिखखखेडी	गिट्टी	2.000	300	250
56	में. नेचुरल माइनिंग एंड मिनरल्स पार्ट - आदिल खान	बिसाली	मार्बल	2.900	200	150
57	में. नेचुरल माइनिंग एंड मिनरल्स पार्ट - आदिल खान	सोबल्यापुरा	मार्बल	2.500	200	150
58	में. अरमान एंड अरहम पार्ट - ऋषिपाल सिंह भाटिया	बिसाली	मार्बल	2.000	200	150
59	श्री विवेक पिता अरुण गुप्ता नि: सोनकच्छ	बावई	गिट्टी	1.000	150	100
60	श्री अजहर शेख पिता अय्युब शेख नि: 58, B राम नगर देवास	बुदासा	गिट्टी	2.700	100	50
61	श्री नितेश मकवाना पिता लक्ष्मीनारायण, नि: ग्रा आगरोदतहसील टोकखुर्द	आगरोद	गिट्टी	2.000	150	50

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62	श्री प्रणव ट्रेडर्स पिता केशरसिंह ठाकुर नि: ग्राम पान्दा, तह. महु जिा इंदौर	जनोलीबुजु र्ग	गिट्टी	4.000	300	150
63	श्रीमति साधना पति महेश साखला नि: ग्राम पूजापूरा, तह. उदयनगर जि. देवास	पूजापूरा	गिट्टी	1.470	200	150
64	श्री नारायण पिता पूनमचंद नि: विकास नगर जि. देवास	कन्हेरिया,	गिट्टी	4.000	100	50
65	श्री विजेन्द्र पिता रमेशचन्द नि: पोलायकला जि. शाजापुर	निपानिया हुर हुर	गिट्टी	4.000	200	150

66	श्री बाबूलाल पिता अंबाराम पटवाला, नि: 91, सुख निवास इंदौर	धामन्दा	गिट्टी	3.74	400	150
67	श्रीमती आशा पटवाला पति सुनील पटवाला, नि: 91, सुख निवास इंदौर	धामन्दा	गिट्टी	4	400	130
68	जितेंद्र सिंह परिहार नि: कवड़ी, तहसील देवास	बीजेपुर	गिट्टी	1	600	250
69	मेसर्स माँ लक्ष्मी स्टोन क्रेशर पार्ट. श्री मनीष ठाकुर नि : पंदा, तहसील महु	जामगोद	गिट्टी	2.77	560	120
70	श्री संजय सिंह पिता सूरजसिंह गौड़ नि: राधगंज देवास	मेरखेड़ी	गिट्टी	2.7	120	35
71	मेसर्स ट्रेडिंग कंपनी इंद्रजीत बैस	धामनदा	गिट्टी	4	540	103
72	मेसर्स के. एन. डेव्हलपर्स एंड बिल्डकोन प्रालि नरेंद्र सिंह तोमर नि: विजय नगर इंदौर	भिलाखेड़ा	गिट्टी	4.9	1680	55
73	श्री परमेन्द्र सिंह पिता गजराज सिंह नि:ग्राम शंकरगढ़ देवास	मेरखेड़ी	गिट्टी	4	4000	324
74	श्रीमति इन्दु खाँ पति मुनीर खाँ नि: गुर्जर बापच्या, तहसील देवास	बापच्या गुजर	गिट्टी	1.99	500	25

DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN SAND MINING OR RIVER BED MINING

75	श्री विश्वजीत सिंह पिता तनवारसिंह चौहान नि: ग्राम राजोदा, तहसील देवास	पितावली	गिट्टी	5.53	1950	105
76	श्री भारत चौहान पिता बिहारीलाल नि: ग्राम शंकरगढ़, तहा देवास	खतम्बा	गिट्टी	3	700	115
77	श्री प्रवीण पिता निराकार प्रसाद श्रीवास्तव नि: 6, फारेस्ट कालोनी देवास	जामगोद	गिट्टी	3	1500	40
78	श्रीमती अवनति बाई पति लक्ष्मण गिरवाल नि: 1/2, सिविल लाइन देवास	जामगोद	गिट्टी	2	1500	35
79	मेसर्स डी.एस. एंड शुभाम पिता अवध नारायण शुक्ला नि: 1 डी न्याय नगर इंदौर	अमरपुरा	गिट्टी	2	500	15
80	श्री महेंद्र भाई पिता भावजी भाई पटेल नि: दादाभाई रोड सूरत (गुजरात)	अमरपुरा	गिट्टी	4.25	2000	130
81	श्री शैलेंद्रसिंह पिता शिवराजसिंह नि: क्षिप्रा	गददुखेड़ी	गिट्टी	2	500	20
82	मेसर्स तुलसी स्टोन क्रेशर पार्ट. शैलेश भाई पटेल नि: न्यू समा रोड बड़ोदा (गुजरात)	मोरूखेड़ी	गिट्टी	1.06	1000	615
83	में. एस.बी.ए. स्टोन प्रा.लि.	पितावली	गिट्टी	2.5	1000	70
84	जीतेन्द्र सिंह पिता विक्रमसिंह परिहार	बिजेपुर	गिट्टी	1.91	100	165
85	टी.एन.सी. इंटरप्राइसेस पार्टनर श्री जीतेन्द्र सिंह चौहान	पितावली	गिट्टी	4.69	1000	85
86	घावर कंस्ट्रक्शन लिमिटेड - अधिकृत प्रवीण कुमार रावल	आगरोद	गिट्टी	3.13	95	118
87	मेसर्स बालाजी डेव्हल्पर्स सुमित मित्तल, नि : 7, ए, बी.जे.बिहार इंदौर	रेहली निजी भूमि	गिट्टी	3.31	686	134

**DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING**

88	श्री मनोज पिता मोहनलाल प्रजापति नि: ग्राम नेवरी	नेवरी	गिट्टी	1	705	63
89	श्री प्रवीण पिता योगेंद्र सिंह पटेल, ग्राम मेहतवाड़ा, तह. जावर, जिला सीहोर	आमलाताज	गिट्टी	1.7	1000	52
90	श्री धर्मेन्द्रसिंह पिता बाबूलाल सेधव नि: आमलाताज, तह.बागली	आमलाताज	गिट्टी	1	500	15
91	श्री सुनील पाटीदार पिता रमेशचंद्र पाटीदार, निवासी शिवपुरमुंडला, हाटपिपल्या	शिवपुर मुंडला	गिट्टी	2	1000	32
92	मेसर्स बालाजी डेव्हलपर्स पार्ट - विकाश मित्तल, निवासी इंदौर	रेहली	गिट्टी	4.5	70	67
93	श्री संदेश ओमप्रकाश गोयल नि: 15, अग्रसेन नगर देवास	जामगोद	मुरुम	1	1000	10
94	श्री सुभाष डाबी नि: बरलाई जागीर त. सांवर जिला इंदौर	जामगोद	मुरुम	1	700	12
95	श्री अनिल राजसिंह पिता अनुपसिंह नि: 16/7, राधागंज देवास	जामगोद	मुरुम	1	700	13
96	श्री कमलेश पिता केदार चौधरी नि: 45/2, राजभवन देवास	जामगोद	मुरुम	1	450	19
97	मेसर्स उदय माइंस प्रो, उदय पिता बालेश्वर मिश्रा, नि: EDस्कीम न.94, बर्फानीधाम चौराहा इंदौर	जामगोद	मुरुम	3	500	17
98	श्री कैलाश पिता बिहारीलाल चौहान नि: ग्राम शंकरगढ़ जिला देवास	खटम्बा	मुरुम	3	3000	30
99	श्री पप्पू चंद पिता पृथ्वी सिंह गौड़ नि: ग्राम शंकरगढ़ जिला देवास	जामगोद	मुरुम	2	500	82
100	श्री प्रेम पिता बिहारीलाल चौहान ग्राम शंकरगढ़ जिला देवास	खटम्बा	मुरुम	3	1000	35

**DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING**

101	श्री धर्मेन्द्र पिता माखनसिंह पटेल नि: 131, भाग्य श्री कॉलोनी इंदौर	गददुखेड़ी	मुरुम	3	1000	22
102	श्रीमति सीमा शेख 58 राम नगर देवास	आनंदपुर डूंगरिया	गिट्टी	3	500	10
103	श्री करण पिता सुरेश भाटिया नि: 1, नवलखा ए, बी। रोड इंदौर	बरखेड़ी	गिट्टी	2.25	488	45
104	श्री मनीष पिता अनोखीलाल पटीदार नि: ग्राम नेवरी, तह. बागली	नेवरी	गिट्टी	1	900	23
105	श्री नितिन पिता दौलत तंवर नि: हाटपिपलिया	नेवरी	गिट्टी	1.442	1000	37
106	श्री दौलतसिंह पिता शंकरलाल तंवर नि: नेवरी तह. बागली	नेवरी	मुरुम	1	Nil	15
107	श्री प्रेमसिंह पिता समंदरसिंह ठाकुर	पितावली	गिट्टी	1	Nil	10
108	में. दत्त कृपा ट्रेडर्स प्रो. फतेहसिंह विश्वासराव	नागदा	मुरुम	1.9	1000	28
109	श्री हर्ष विजयवर्गीय निवासी : 52 भगत सिंह मार्ग जिला देवास	मोरुखेड़ी	गिट्टी	1.9	50	175
110	श्रीमती मोनिका शर्मा पति विपिन शर्मा निवासी देवास	अमरपुरा	मुरुम	1	50	22
111	मेसर्स व्ही.डी. कोट्रा इंदौर	राजोदा	गिट्टी	2	500	Nil
112	मेसर्स व्ही.डी. कोट्रा इंदौर	राजोदा	गिट्टी	3	500	Nil
113	जोगेंद्रसिंह पिता गजराजसिंह	पितावली	गिट्टी	1	1000	38
114	श्री बनेसिंह पिता केशरसिंह ठाकुर नि: ग्राम पान्दा, तह. महू जि। इंदौर	आनंदपुर डूंगरीय	गिट्टी	2	100	17

DISTRICT SURVEY REPORT OF DEWAS FOR MINOR MINERALS OTHER THAN
SAND MINING OR RIVER BED MINING

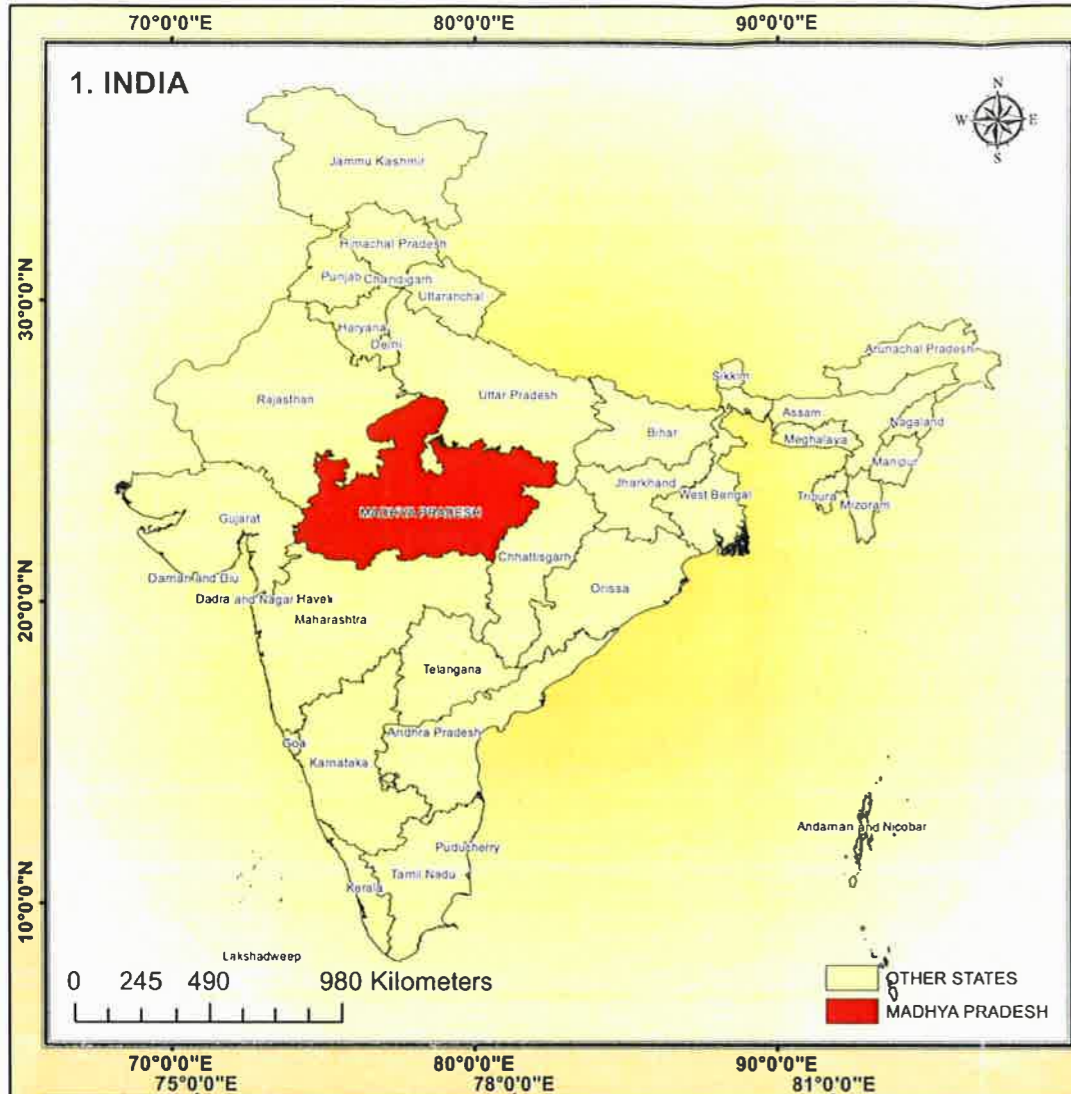
115	श्री कीर्तिसिंह पिता श्री अजयसिंह परिहार, निवासी 80, राधागंज देवास (म.प्र.)	अमरपुरा	मरूम / गिट्टी	2	43	40
116	श्री रणजीतसिंह पिता श्री कालूसिंह, निवासी 27, बट्टीधाम नगर देवास (म.प्र.)	अमरपुरा	मरूम / गिट्टी	1.94	47	45

27. ANY OTHER INFORMATION

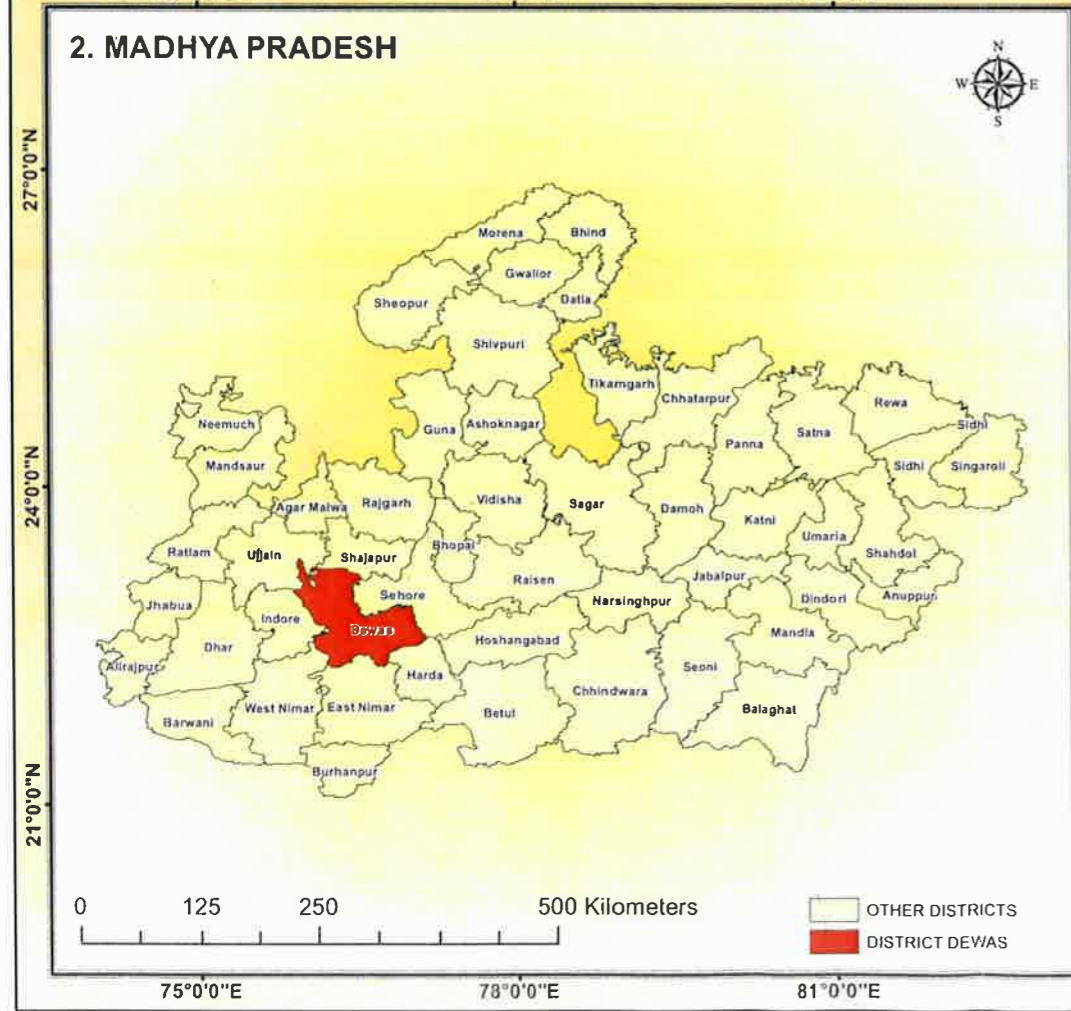
Nil


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

1. INDIA

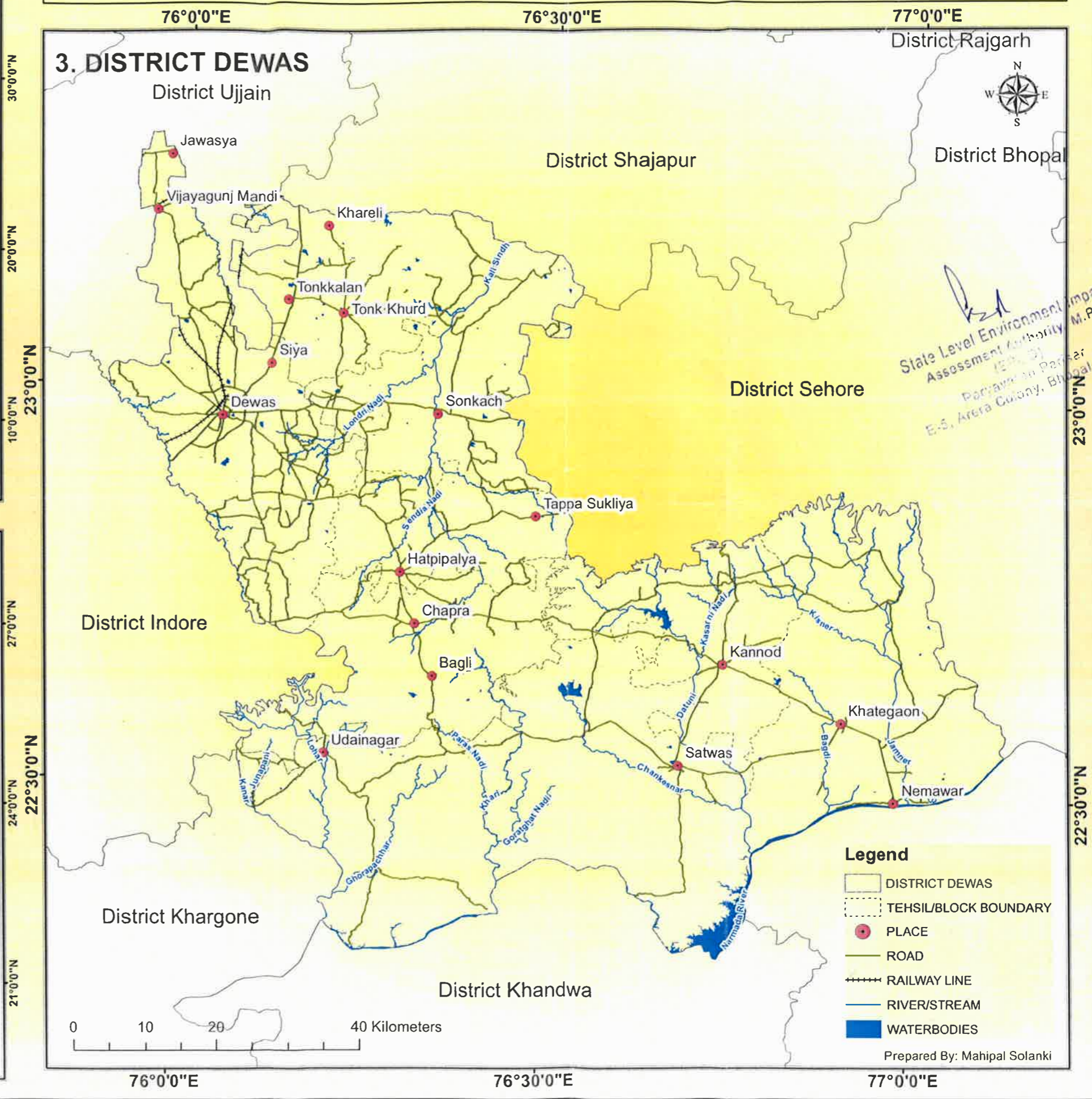


2. MADHYA PRADESH



LOCATION MAP OF DISTRICT DEWAS, MADHYA PRADESH

3. DISTRICT DEWAS



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

Legend

- DISTRICT DEWAS
- TEHSIL/BLOCK BOUNDARY
- PLACE
- ROAD
- RAILWAY LINE
- RIVER/STREAM
- WATERBODIES

Prepared By: Mahipal Solanki

District Shajapur

ADMINISTRATIVE MAP OF DISTRICT DEWAS, MADHYA PRADESH

District Ujjain

Tonk Khurd

DEWAS

Sonkach

District Sehore

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

Hatpipalya

District Indore

Bagli

Kannod

District Hoshangabad

Udainagar

Satwas

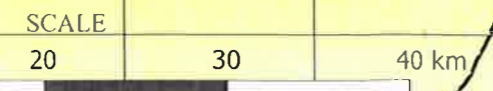
Khategaon

District Khargone

District Khandwa

District Harda

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 - Dewas Tahsil
 - Hatpiplya Tahsil
 - Kannod Tahsil
 - Khategaon Tahsil
 - Satwas Tahsil
 - Sonkach Tahsil
 - Tonk Khurd Tahsil
 - Udaynagar Tahsil



GEOLOGICAL MAP OF DISTRICT DEWAS, MADHYA PRADESH



District Ujjain

District Shajapur

EXPLANATION

LITHOLOGY	STRATIGRAPHIC STATUS	AGE	IMPORTANT PHYSICAL QUALITIES OF ROCKS
17	Alluvium	QUATERNARY	Yellow, brown, red, grey, coarse to fine sand and silt, clay with gravel of bank.
16	Basic dykes		Black, dark, grey, fine to medium grained, porphyritic, hard rock.
15	'A1' basaltic lava flows (6 flows) with an unconformable bed at 60m	Barwadehi Fm	Dark grey to black, fine to medium grained, moderately porphyritic, massive, hard rock.
14	Red Shale	Iskari Fm	Deep reddish brown, fine grained, sandy, cemented.
13	Single basaltic lava flows with a magpyrophytic flow at the top (1 flow)	Kambhaya Pradhani Fm	Dark grey, granular, fine to medium grained, sparsely porphyritic, hard, compact rock with columnar joints.
12	'A1' basaltic lava flows with a magpyrophytic flow at the top (7 flows)	Kambhaya Fm	Dark grey, fine to medium grained, moderately to highly porphyritic, hard rock.
11	'A1' basaltic lava flows with a magpyrophytic flow at the top (1 flow)	Mandla Fm	Dark grey, fine grained, non-porphyrific to sparsely porphyritic, massive, hard rock.
10	'A1' basaltic lava flows with a magpyrophytic flow at the top (1 flow)	Mandla Fm	Black, greyish, green, fine grained, non-porphyrific and porphyritic at places, hard rock.
9	Sandstone with conglomerate	Bugh Group	Yellow, grey, red, medium to coarse grained, blocky, calcareous, grey rock with thin beds of conglomerate.
8	Kalshir shale with siltstone and sandstone	Bugh Group	Green, brown, brownish, red shale with thin interbeds of sandstone and siltstone.
7	Coarse quartzite sandstone with conglomerate	Bugh Group	Pink, purple, fine grained, block bedded, hard sandstone with conglomerate and pebbles in the lower part.
6	Jointed shale with siltstone and sandstone	Bugh Group	Black and shalyish interbeds of brownish siltstone and fine grained sandstone.
5	Dolomite	Bijapur Group	Greyish white, yellowish white, brownish, fine grained, crystalline, hard rock.
4	Chert lenses, thin, irregular lenses	Bijapur Group	Reddish white, greyish white, fine grained, hard, compact rock.
3	Quartzite		
2	Quartzite gneiss and granite/Mandla Fm	Narmada Valley Group	
1	Oolite	Malsikhol Group	
0	Amphibolite		

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

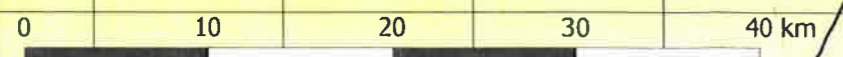
District Indore

District Hoshangabad

District Harda

District Khandwa

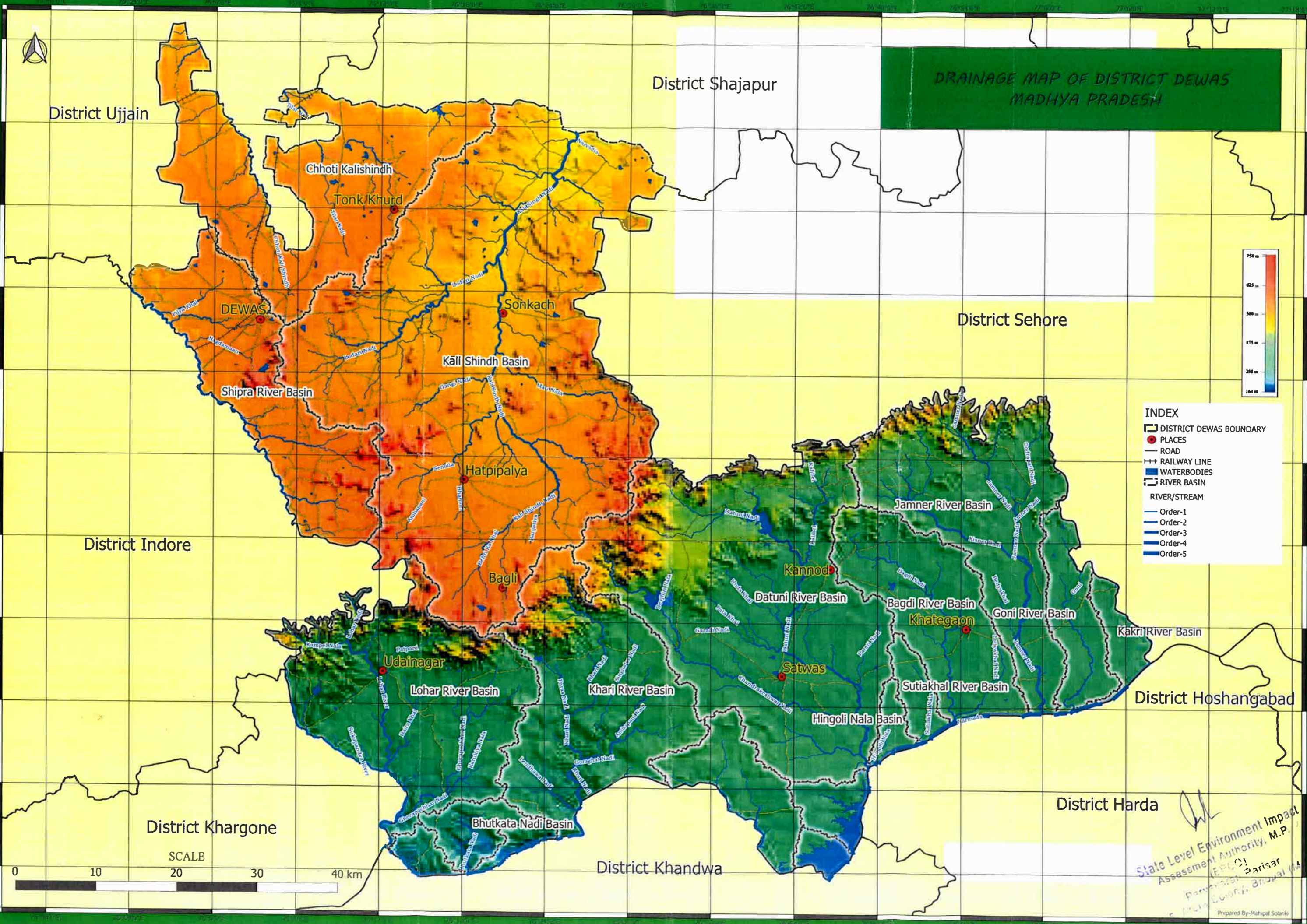
District Khargone



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DRAINAGE MAP OF DISTRICT DEWAS
MADHYA PRADESH



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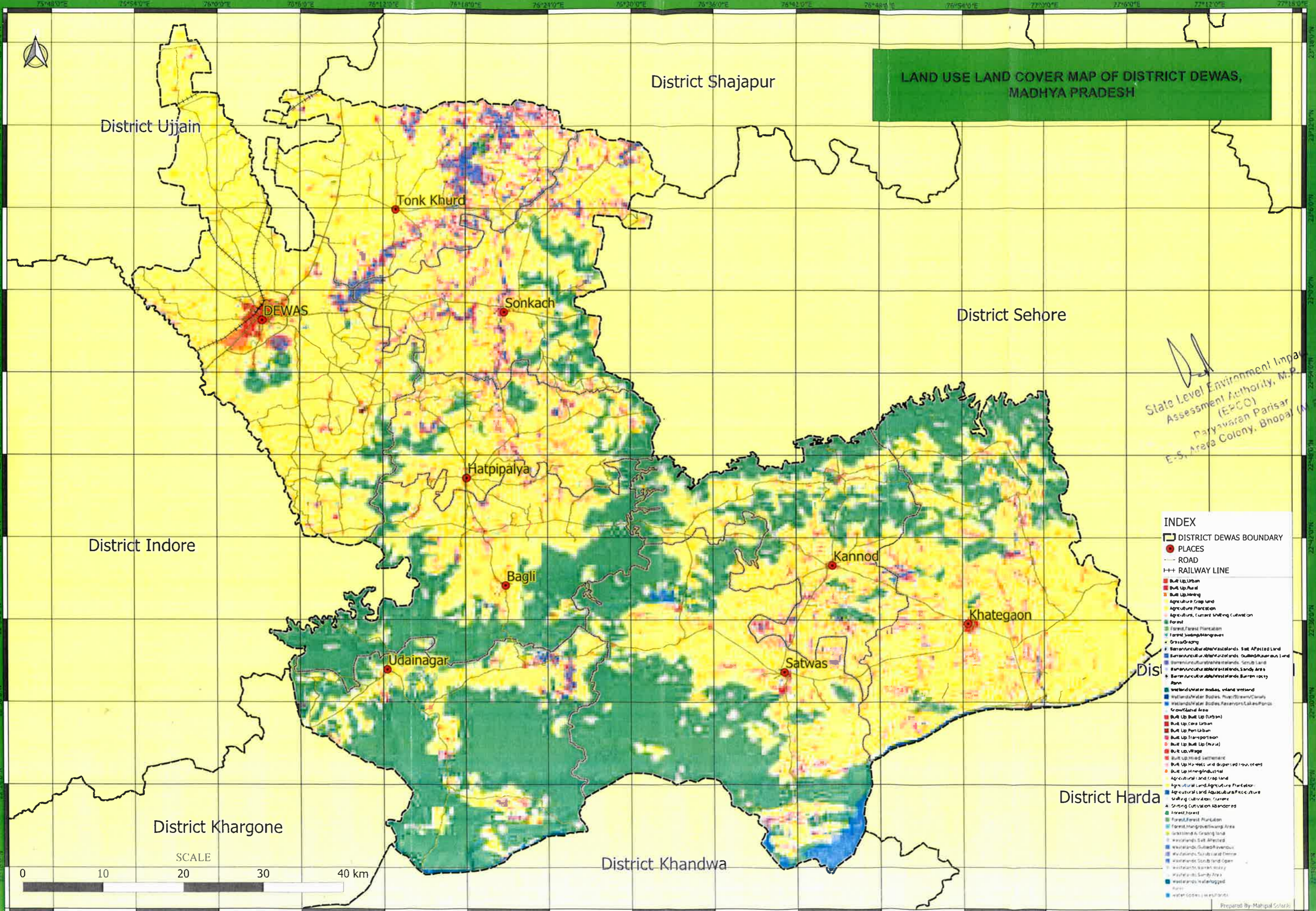
- DISTRICT DEWAS BOUNDARY
- PLACES
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- +++ RAILWAY LINE
- WATERBODIES
- ▭ RIVER BASIN

RIVER/STREAM

- Order-1
- Order-2
- Order-3
- Order-4
- Order-5

State Level Environment Impact
Assessment Authority, M.P.
(EPEO)
परमेश्वर प्रसाद
ए. पी. ए. लोन्ग, भुवनेश्वर (ओ. ए. ए.)
Prepared By-Mahipal Solanki

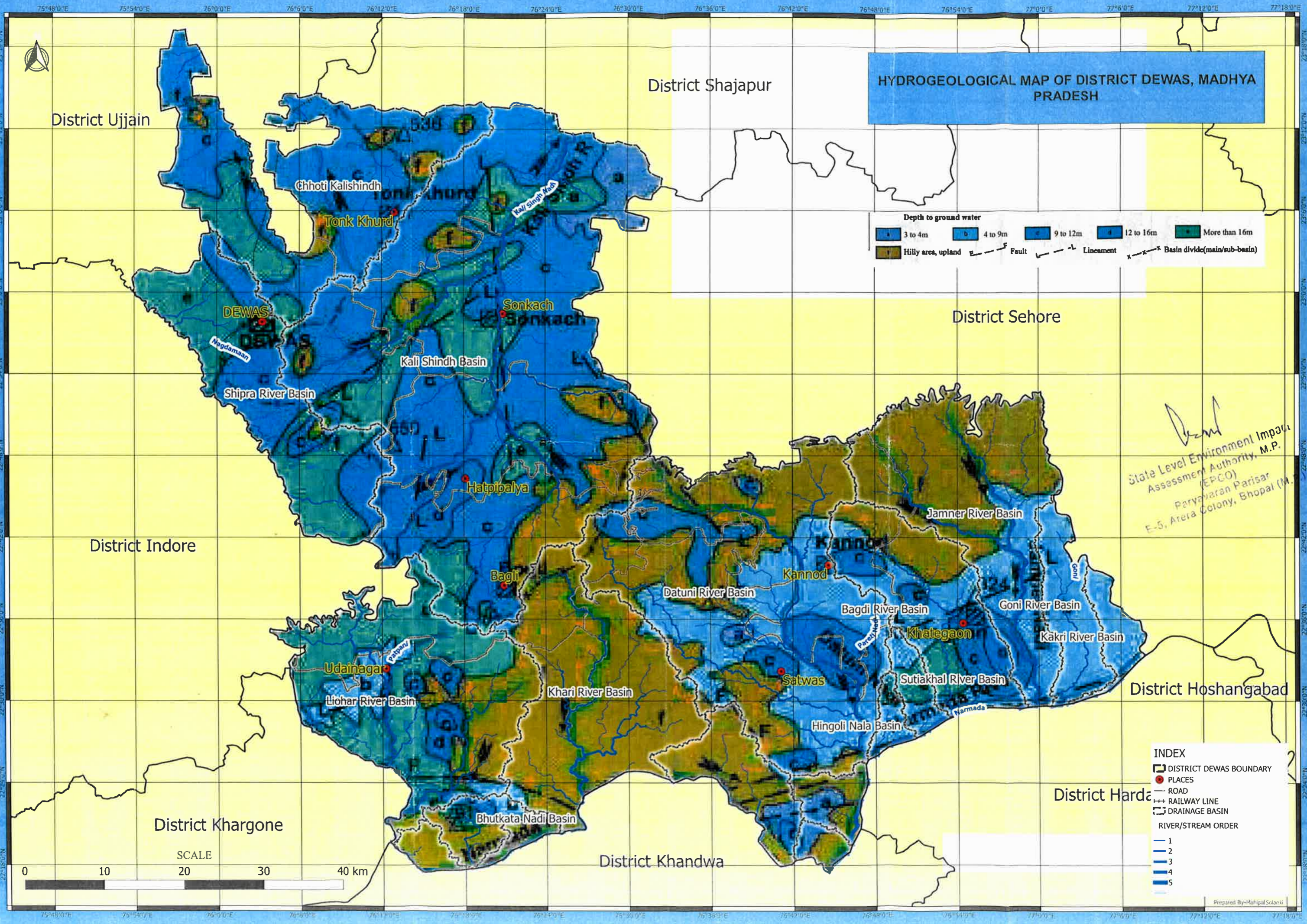
LAND USE LAND COVER MAP OF DISTRICT DEWAS, MADHYA PRADESH



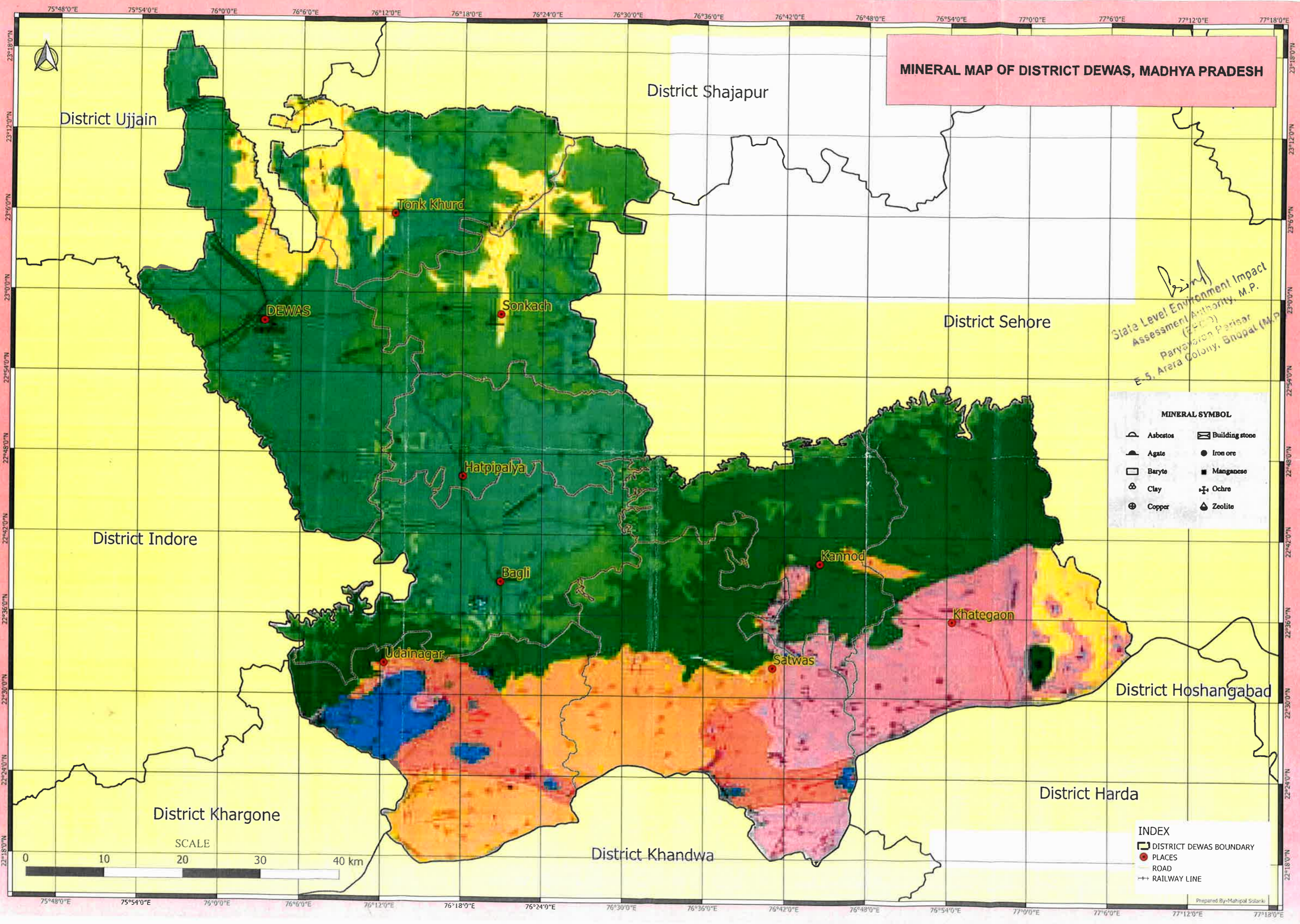
State Level Environment Impact Assessment Authority, M.P. (EPCO)
 Paryavaran Parisar
 E-5, Arava Colony, Bhopal (M.P.)

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 - Grassland
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 - Barren/culturable/wastelands, Outland/Barren Land
 - Barren/culturable/wastelands, Sandy Land
 - Barren/culturable/wastelands, Sandy Area
 - Barren/culturable/wastelands Barren rocky Area
 - Wetland/Water bodies, saline wetland
 - Wetland/Water bodies, River/Stream/Canals
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 - Snow/Glacial Area
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 - Built Up Peri Urban
 - Built Up Transportation
 - Built Up Built Up (Rural)
 - Built Up Village
 - Built Up Mixed Settlement
 - Built Up Hotels and dispersed town, etc.
 - Built Up Marginal/Industrial
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 - Agricultural Land Agriculture Plantation
 - Agricultural Land Agriculture Plantation Shifting Cultivation, Current
 - Shifting Cultivation Abandoned
 - Forest Forest
 - Forest Forest Plantation
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 - Wastelands A, Grassland
 - Wastelands Salt Affected
 - Wastelands Outland/Barren Land
 - Wastelands Sandy Land Dense
 - Wastelands Sandy Land Open
 - Wastelands Sandy Area
 - Wastelands Sandy Area
 - Wastelands Waterlogged
 - Water bodies Water bodies

HYDROGEOLOGICAL MAP OF DISTRICT DEWAS, MADHYA PRADESH



MINERAL MAP OF DISTRICT DEWAS, MADHYA PRADESH



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

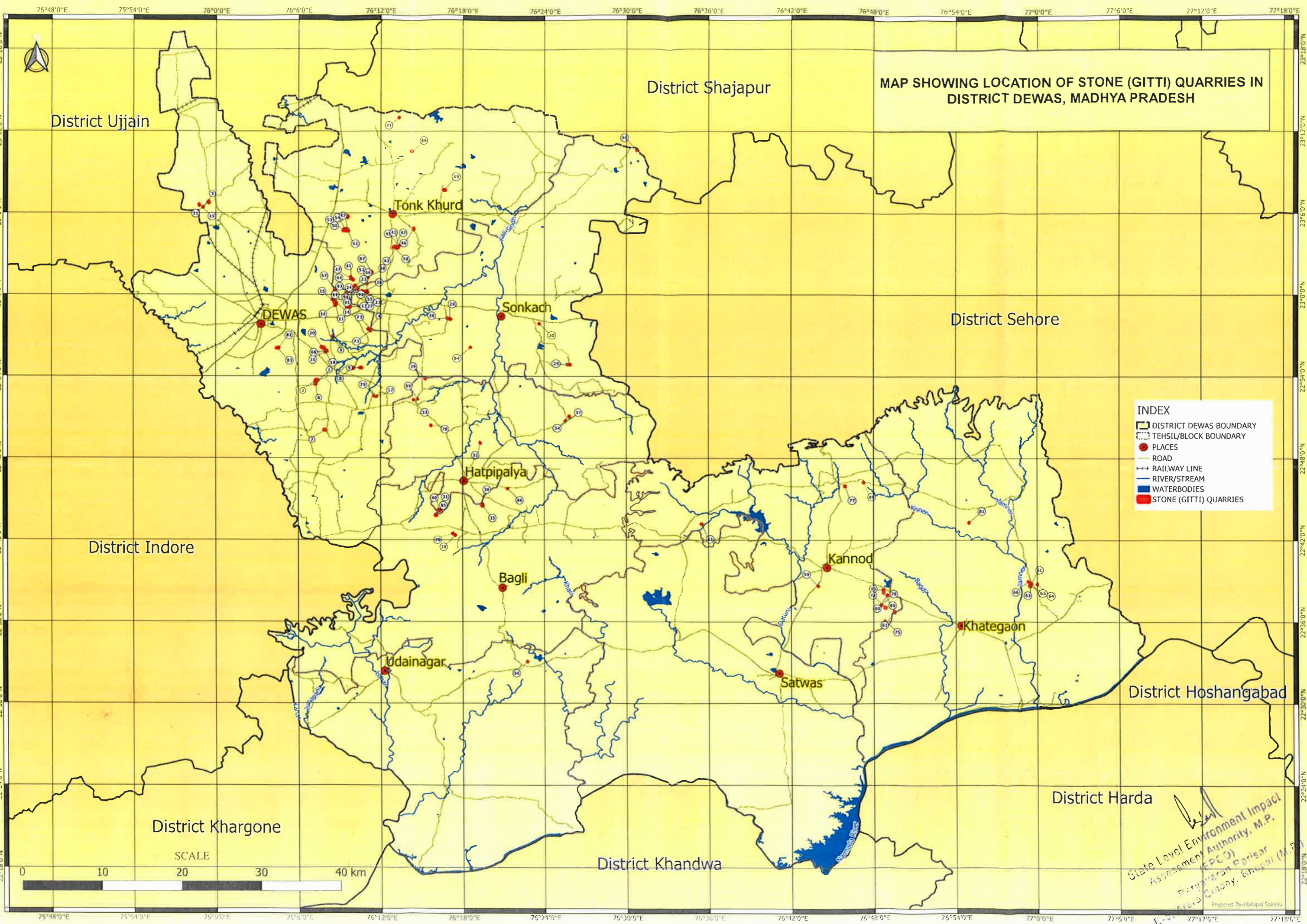
MINERAL SYMBOL

	Asbestos		Building stone
	Agate		Iron ore
	Baryte		Manganese
	Clay		Ochre
	Copper		Zeolite

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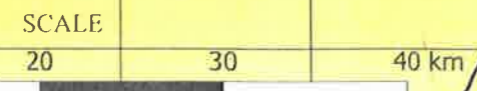
Prepared By: Mahipal Solanki



MAP SHOWING LOCATION OF STONE (GITTI) QUARRIES IN DISTRICT DEWAS, MADHYA PRADESH

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- TEHSIL/BLOCK BOUNDARY
- PLACES
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- RAILWAY LINE
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- WATERBODIES
- STONE (GITTI) QUARRIES



State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
पर्यावरण प्रभाव
अनुसंधान प्राधिकरण, म.प्र.

District Ujjain

District Shajapur

District Sehore

District Indore

District Hoshangabad

District Khargone

District Khandwa

District Harda

Tonk Khurd

DEWAS

Sonkach

Hatpipaiya

Bagli

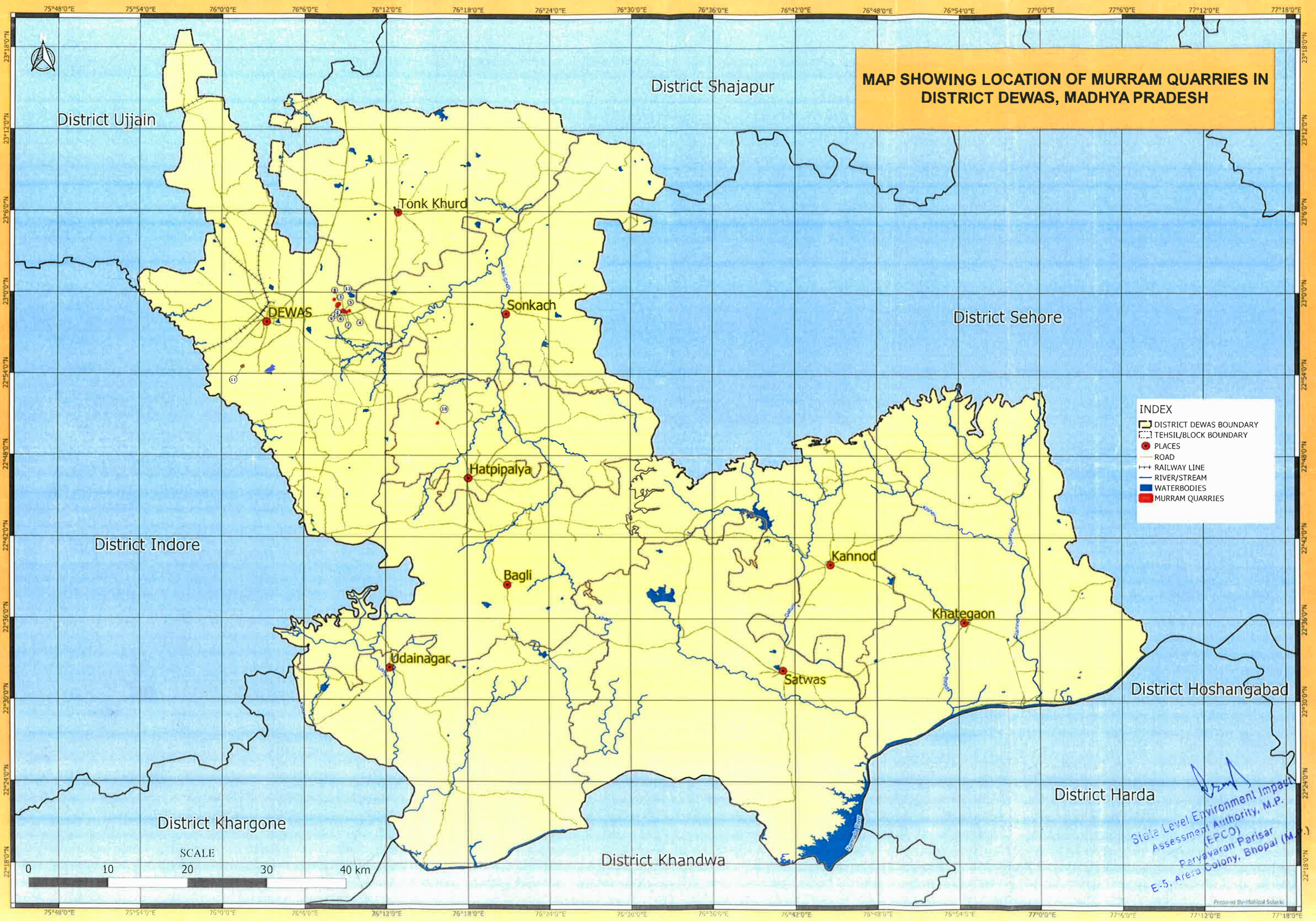
Kannod

Khategaon

Udainagar

Satwas

MAP SHOWING LOCATION OF MURRAM QUARRIES IN DISTRICT DEWAS, MADHYA PRADESH



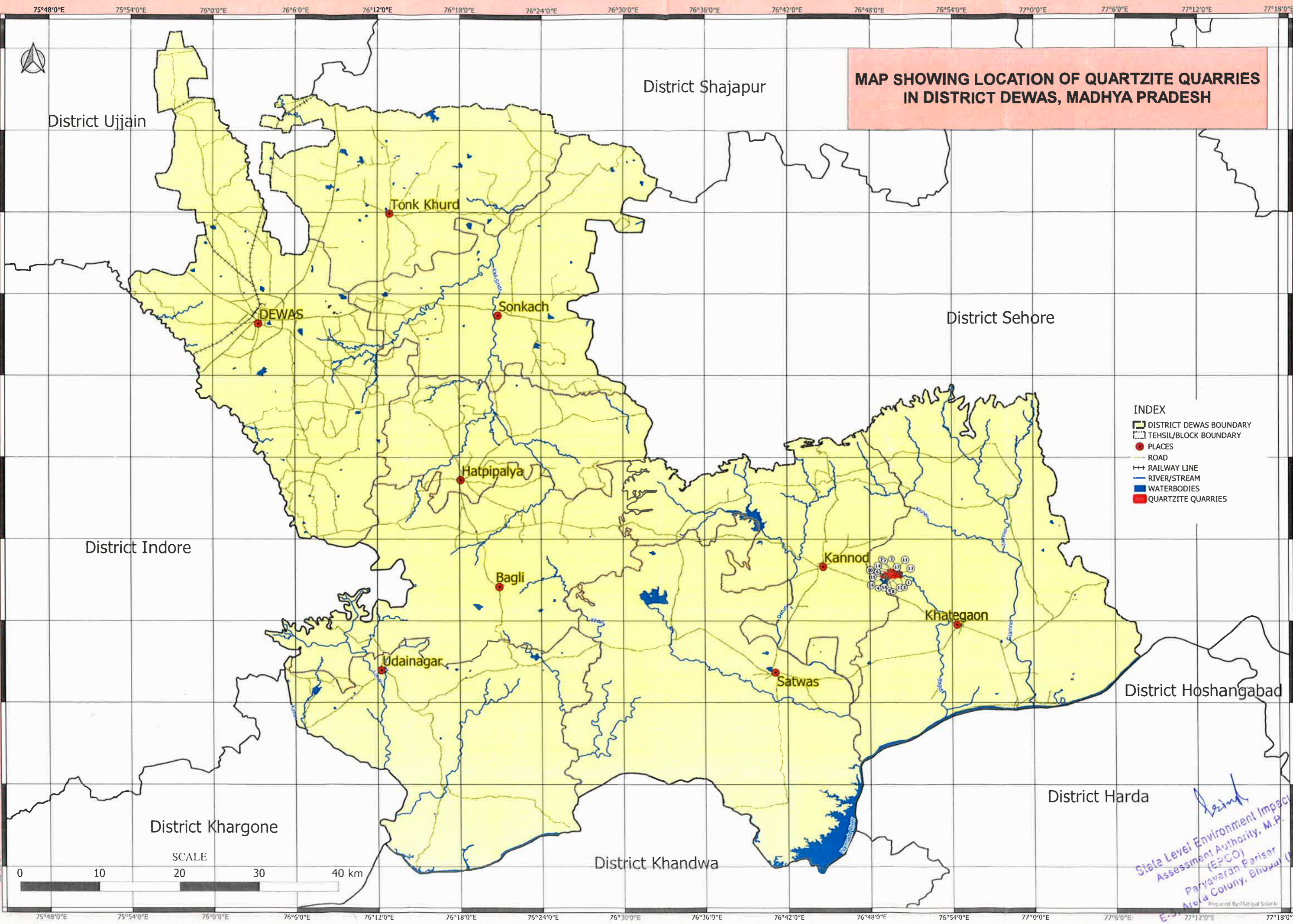
INDEX

- DISTRICT DEWAS BOUNDARY
- TEHSIL/BLOCK BOUNDARY
- PLACES
- ROAD
- RAILWAY LINE
- RIVER/STREAM
- WATERBODIES
- MURRAM QUARRIES

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

Prepared By: Manoj Solanki

**MAP SHOWING LOCATION OF QUARTZITE QUARRIES
IN DISTRICT DEWAS, MADHYA PRADESH**

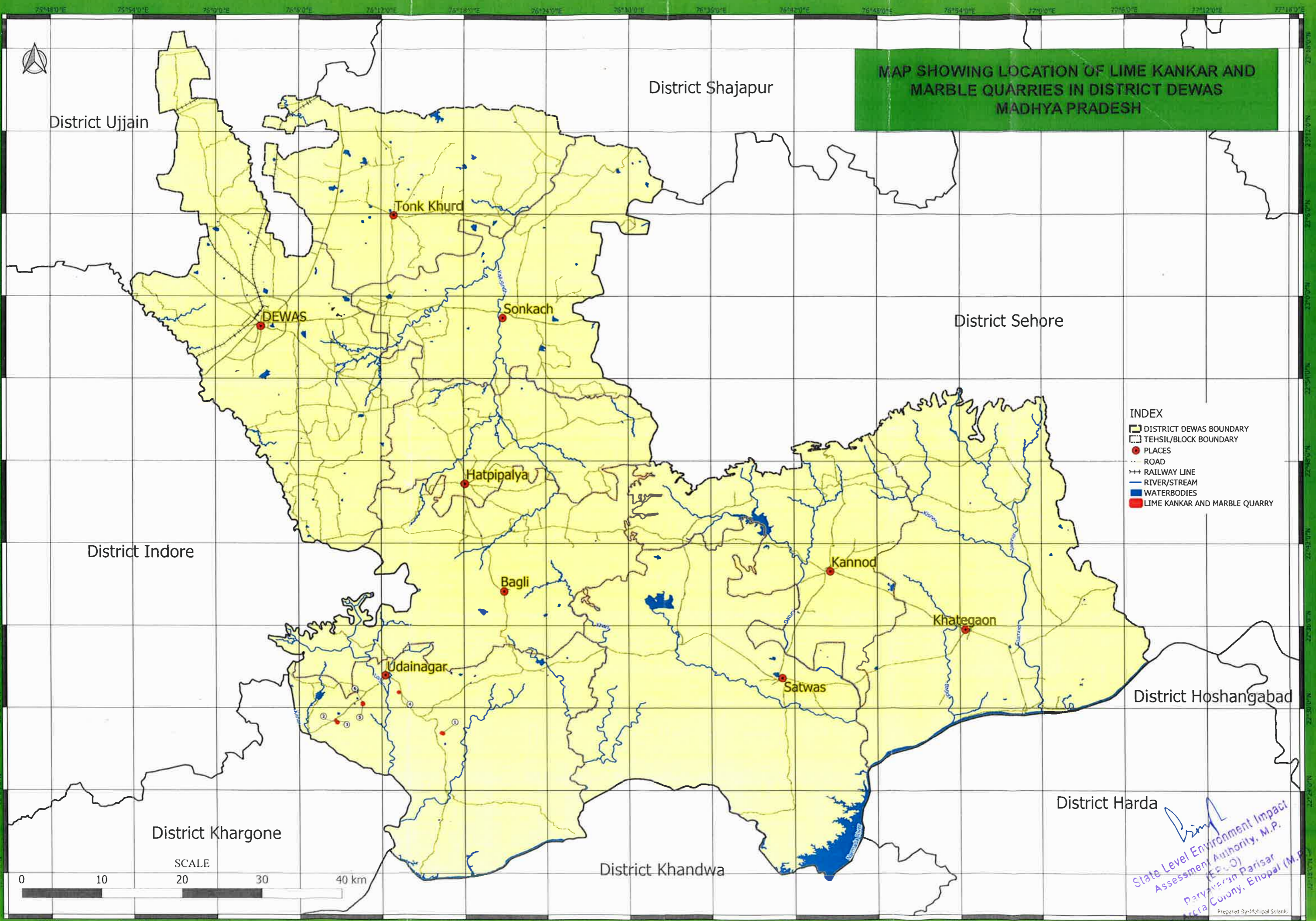


- INDEX**
- DISTRICT DEWAS BOUNDARY
 - TEHSIL/BLOCK BOUNDARY
 - PLACES
 - ROAD
 - RAILWAY LINE
 - RIVER/STREAM
 - WATERBODIES
 - QUARTZITE QUARRIES

SCALE
0 10 20 30 40 km

State Level Environment Impact
Assessment Authority, M.P.
(E-PCO)
Paryavaran Parisar
Area Colony, Bhopal (M.P.)
Prepared By: Mahipal Solanki

MAP SHOWING LOCATION OF LIME KANKAR AND MARBLE QUARRIES IN DISTRICT DEWAS MADHYA PRADESH



- INDEX
- DISTRICT DEWAS BOUNDARY
 - TEHSIL/BLOCK BOUNDARY
 - PLACES
 - ROAD
 - RAILWAY LINE
 - RIVER/STREAM
 - WATERBODIES
 - LIME KANKAR AND MARBLE QUARRY

D. Singh
State Level Environment Impact
Assessment Authority, M.P.
(E.E.-3)
पर्यावरण प्रसार
अज्ञान कोण, एनोपल (M.P.)
Prepared By: Mahesh Kumar



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

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

वेबसाइट- <http://www.mpseiaa.nic.in>

दूरभाष नं. - 0755-2466970, 2466859

फैक्स नं. - 0755-2462136

No: 1671 / SEIAA/2022

Date: 23/09/22

प्रति,

कलेक्टर

जिला - देवास (म.प्र.)

विषय: नवीन जिला सर्वेक्षण रिपोर्ट - जिला देवास (अन्य गौण खनिज रेत को छोड़कर)

संदर्भ: आपका पत्र क्र. 2350, दिनांक 02.09.2022।


राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वी बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला देवास की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

"..... समिति की अनुशंसा है कि देवास 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 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए देवास जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज रेत को छोड़कर) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदनुसार जिला कलेक्टर, देवास को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।


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


o/c (श्रीमन् शुक्ला)
सदस्य सचिव

क्र.. 1672 / SEIAA / 2022 भोपाल
प्रतिलिपि :-

दिनांक 28/09/22

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।


o/c सदस्य सचिव

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

25. जिला सर्वेक्षण रिपोर्ट, जिला - नीमच (गौण खनिज)

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वीं बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला नीमच की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

"..... समिति की अनुशंसा है कि नीमच जिले की जिला सर्वेक्षण रिपोर्ट (गौण खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए नीमच जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट (गौण खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

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

26. जिला सर्वेक्षण रिपोर्ट, जिला - देवास (अन्य गौण खनिज रेत को छोड़कर)

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वीं बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला देवास की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

"..... समिति की अनुशंसा है कि देवास 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 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए देवास जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज रेत को छोड़कर) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

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


27. जिला सर्वेक्षण रिपोर्ट, दमोह - रेत खनिज


राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वीं बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :-

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला दमोह की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

"..... समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ दमोह जिले की जिला


(श्रीमन् शुक्ला)
सदस्य सचिव


(अनिल कुमार शर्मा)
सदस्य


(अरुण कुमार भट्ट)
अध्यक्ष

**592वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 06 सितम्बर 2022**

Hard Copy Soft Copy or both	Soft copy
SEAC meeting dated 06/09/22	<p>जिला सर्वेक्षण रिपोर्ट (गौण खनिज) नीमच –</p> <p>आज दिनांक 06/09/22 को जिला सर्वेक्षण रिपोर्टों के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एवं खनिकर्म, विभाग भोपाल से श्री पी.पी. राय एवं श्रीमती देविका परमार, खनिज अधिकारी उपस्थित रहे। नवीन जिला सर्वेक्षण रिपोर्ट रेत खनिज हेतु प्रस्तुत की गई, जिसमें पाया :-</p> <ul style="list-style-type: none"> ● जिले की जिला सर्वेक्षण रिपोर्ट के टेबिल क्रमांक-9 (पेज क्र०. 14 से 29) पेज क्र०. 66 से 91 में जानकारी (16 बिन्दुओं वाली टेबल) निर्धारित फार्मेट के अनुसार दे दी गई है। ● रिपोर्ट के पेज क्र०. 43 से 48 में जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्याओं की जानकारी दी गई है।

आज दिनांक 06/09/22 को जिला सर्वेक्षण रिपोर्ट के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एवं खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्रीमती देविका परमार, खनिज अधिकारी के साथ उपस्थित रहे।

चर्चा उपरांत समिति ने पाया कि खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला- नीमच खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला- नीमच ने पत्र क्रमांक 1075/खनिज/2022-23 दिनांक 01/09/22 लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या, पौधों की प्रजातियों की खदानवार मात्रा, जानकारी भी प्रस्तुत कर दी गई है। अतः समिति की अनुशंसा है कि नीमच जिले की जिला सर्वेक्षण रिपोर्ट (गौण खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

6. जिला सर्वेक्षण रिपोर्ट, देवास – गौण खनिज

Mineral	Other than Sand
Earlier DSR Discussed	581 th , Meeting dated 24.06.22.
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation
Deliberation in the SEAC 581th ,	राज्य स्तरीय मूल्यांकन समिति की 581 वीं बैठक दिनांक 24/06/22

592वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 06 सितम्बर 2022

<p>Meeting dated 24.06.22.</p>	<p>जिला सर्वेक्षण रिपोर्ट, जिला देवास (म.प्र.)</p> <p>राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (सिया) ने पत्र क्रमांक 814 दिनांक 21/06/22 के माध्यम से देवास जिले की जिला सर्वेक्षण रिपोर्ट राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के परीक्षण हेतु भेजी गई है। उक्त जिला सर्वेक्षण रिपोर्ट, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के सदस्यों को दिनांक 20/06/22 सॉफ्टकापी को प्रेषित की गई थी तथा उस पर चर्चा हेतु राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की 581 वीं बैठक दिनांक 24/06/22 में प्रस्तावित है।</p> <p>कार्यालय कलेक्टर (खनिज शाखा) जिला- देवास, म.प्र. के पत्र क्रमांक 1865 दिनांक 16/06/2022 के जिला सर्वेक्षण रिपोर्ट को सिया कार्यालय में ऑन लाईन जमा कराई गई। कार्यालय कलेक्टर (खनिज शाखा) जिला- देवास, म.प्र. ने पत्र क्रमांक 1657 दिनांक 23/05/2022 में यह उल्लेख किया गया है, कि जिला पोर्टल पर इसे 21 दिवस हेतु अपलोड कर प्राप्त दावें/आपत्तियों हेतु रखा गया। उक्त पत्र में यह भी उल्लेख है, कि सस्टेनेबल सेंड माइनिंग मैनेजमेन्ट गाईडलाईन 2016 एंव इन्फोर्समेन्ट मॉनिटरिंग फॉर सेंड माइनिंग गाईडलाईन 2020 के तहत जिला सर्वेक्षण रिपोर्ट गठित समिति के द्वारा तैयार कर प्रस्तुत की है।</p> <p>राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की 581 वीं बैठक दिनांक 24/06/22 में देवास जिले की सर्वेक्षण रिपोर्ट पर चर्चा की गई जिस दौरान खनिज विभाग की ओर माइनिंग अधिकारी उपस्थित नहीं हुए। समिति ने प्राप्त रिपोर्ट पर चर्चा की तथा पाया कि :-</p> <ul style="list-style-type: none"> ✓ जिला सर्वेक्षण रिपोर्ट के पेज नम्बर 93 में दर्शायी गयी टेबल जिसके अन्तर्गत "नदियों पर स्थित रेत का विवरण" दिया गया है मे खनन योग्य खनिज क्षमता का 70% की दर से गणना की गयी है जबकि इसको खनिज क्षमता का 60% की दर से गणना की जानी है। साथ ही जो खनन क्षमता की 70% की दर से गणना की गयी है, वह गणना भी नर्मदा नदी के प्रकरण के मात्रा से अधिक दर्शायी गयी है, जबकि यह मात्रा निश्चित रूप से कम होगी। जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के अनुसार नहीं बनाई गई तथा कई जानकारियां वांछित तालिका में नहीं दी गई है जिस कारण जिला सर्वेक्षण रिपोर्ट अपूर्ण है। ✓ जिला सर्वेक्षण रिपोर्ट में स्थित इको सेंसिटिव जोन की कोई भी जानकारी नहीं दी गई जिसमें बताया गया है जबकि खिवनी ईएसजेड जिले में स्थित है। चूंकि जिले पारिस्थितिक संवेदी जोन जिले का एक बहुत की महत्वपूर्ण घटक है। अतएव इसका वर्णन जिसमें नोटिफिकेशन का न0. दिनांक एंव विस्तार और सीमाएं एंव ई.एस.जेड. में आ रहे गांवों का नाम का समायोजन होना अपरिहार्य है। ✓ जिला सर्वेक्षण रिपोर्ट की तालिका में खनिज रेत हेतु लीजवार " माइनेबल मिनरल पोर्टेशियल " (घनमीटर में) (60% टोटल मिनरल पोर्टेशियल) लीजवार (लम्बाई एंव चौड़ाई के साथ) नहीं दिया गया है जो दिया जाना आवश्यक है। ✓ बिन्दु क्र0. 26 जी जानकारी जो माइनेर मिनरल (रेत छोड़कर) से संबंधित है मे हरित क्षेत्र के विकास हेतु खदानों में वृक्षारोपण की जानकारी नहीं दी गई है, जिसको अद्यतन किया जाना चाहिए। साथ ही निर्धारित लक्ष्य के विरुद्ध कितना वृक्षारोपण किस वर्ष किया है, उसको भी अंकित किया जाना चाहिए। ✓ इसी प्रकार जिले में स्वीकृत/प्रस्तावित खदानों को को-आर्डिनेट के अनुसार डिजिटार्इज मेप (आर्क व्यू / गूगल अर्थ कम्पेटेवल - सी.डी.में) भी संलग्न किया जाये ताकि पर्यावरण अभिस्वीकृति के समय खदानों की सही स्थिति ज्ञात करने में तथा 500 मीटर के अंदर स्थित अन्य स्वीकृत खदानों की जानकारी प्राप्त करने में सुविधा हो। ✓ प्रायः देखा जा रहा है जिला सर्वेक्षण रिपोर्ट में रेत निर्माण होने की भू-वैज्ञानिक विधि की सामान्य जानकारी दी जाती है जो सभी जिला सर्वेक्षण रिपोर्टों में एक जैसी ही है जिसके स्थान पर जिले में मिलने वाली नदी के अपस्ट्रीम क्षेत्र में मिलने वाली चट्टानों का (रॉक फॉर्मेशन) का समावेश होना चाहिए। ✓ जिला सर्वेक्षण रिपोर्ट में प्रदर्शित नक्शों में जो भी फीचर्स दिखाया जाता है उसको संबंधित नक्शों के लीजेंड में भी दिखाया जाना चाहिए एवं नक्शों का स्केल ऐसा होना चाहिए कि समस्त फीचर स्पष्ट दिख सके। यदि ए-4 साईज में नक्शें नहीं आ पा रहे हो तो ए-3 साईज में नक्शों को बनाना चाहिए।
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592वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 06 सितम्बर 2022

	<p>✓ समिति ने संबंधित जिलों के खनिज अधिकारियों को निर्देशित करती है कि इस बात का भी ध्यान रखा जाये कि नदियों में किसी स्थान पर मछलियों / कछुआ / घड़ियाल / मगरमच्छ आदि जलचरों का ब्रीडिंग ग्राउण्ड तो नहीं है यदि ऐसा कोई स्थानीय संवेदनशील क्षेत्र दृष्टिगत होता है तो खनन क्षेत्र की सीमा को 60 प्रतिशत से कम कर 50 प्रतिशत तक भी सीमित किया जा सकता है ।</p> <p>✓ समिति ने यह भी सुझाव दिया कि सभी खनिज अधिकारी अपनी साईट विजिट के दौरान खदान द्वारा किये जा रहे पर्यावरणीय एवं सामाजिक पहलुओं का भी अवलोकन करें एवं यदि कोई पर्यावरणीय संवेदनशीलता दृष्टिगत हो, जिस पर ध्यान दिया जाना आवश्यक हो तो संबंधित तथ्यों से राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण को उचित कार्यवाही हेतु अवगत करायें ।</p> <p>चर्चा उपरांत समिति की यह अनुशंसा है कि देवास जिले की जिला सर्वेक्षण रिपोर्ट को समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के अनुसार पुनः प्रस्तुत की जाये तथा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के निर्धारित फॉर्मेट अनुसार जिला सर्वेक्षण रिपोर्ट को अद्यतन कर लें। तदनुसार प्रकरण आगामी कार्यवाही राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर अग्रिम कार्यवाही हेतु प्रेषित है ।</p>
Revised DSR received from District Collectorate (Mining)	Received soft copy vide District Collectorate (Mining) Office, Dewas, No. 2352 dated 02.09.2022.
Hard Copy Soft Copy or both	Hard copy & Soft copy.
SEAC meeting dated 27/08/22	<p>1. पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 की अधिसूचना में दिये गये निर्देशानुसार 16 बिन्दुओं वाली जानकारी दी गयी है (पेज 18-34)।</p> <ul style="list-style-type: none"> ● पेज 78-86 लीजवार वृक्षारोपण की जानकारी दी गयी है ।

आज दिनांक 06/09/22 को जिला सर्वेक्षण रिपोर्टों के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एवं खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्री आरिफ खान, खनिज अधिकारी के साथ उपस्थित रहे ।

चर्चा में समिति ने पाया कि खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला- देवास जिले के पत्र क्र० 1075, दिनांक 01/09/22 के माध्यम खदान की जानकारी निर्धारित प्रपत्र में दे दी गई है तथा लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या, भी प्रस्तुत कर दी गई है। अतः समिति अतः समिति की अनुशंसा है कि देवास 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 ।