



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: / SEIAA/2022

Date:

प्रति,

कलेक्टर

जिला - बैतूल (म.प्र.)

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

संदर्भ: आपका पत्र क्र. 1481 दिनांक 07/10/22

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

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

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

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 598वीं बैठक दिनांक 07/10/2022 के अनुमोदन प्रस्ताव को मान्य करते हुए बैतूल जिले की 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, बैतूल को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

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

(श्रीमन् शुक्ला)

सदस्य सचिव

क्र.. 2028

/SEIAA/2022 भोपाल

दिनांक 2/11/22

प्रतिलिपि :-

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

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सदस्य सचिव

DISTRICT SURVEY REPORT OF MINOR MINERAL



MINERAL RESOURCES DEPARTMENT

YEAR-2022



DISTRICT-BETUL

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

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

final

final

OTS

कार्यालय कलेक्टर (खनिज शाखा), बैतूल

क्रमांक/खनिज/2022/1481
प्रति,

बैतूल, दिनांक 07/10/2022

सदस्य सचिव,

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (सेक)

भोपाल (म.प्र.)

विषय:- अन्य गौण खनिज की संशोधित डी.एस.आर. प्रस्तुत किये जाने के संबंध में।

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उपरोक्त विषयांतर्गत निवेदन है कि 594 वीं राज्य स्तरीय विशेषज्ञ ऑकलन समिति (सेक) की बैठक दिनांक 21.09.2022 में दिये गये निर्देश के पालन में जिला बैतूल की अन्य गौण खनिज की संशोधित डी.एस.आर. अनुमोदन हेतु सादर प्रस्तुत है।

संलग्न:-उपरोक्तानुसार।

3/7/10/2022
प्रभारी अधिकारी
(खनिज शाखा)

जिला-बैतूल

बैतूल, दिनांक 07/10/2022

पृ.क्रमांक/खनिज/2022/1481
प्रतिलिपि,

1. सदस्य सचिव, राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण भोपाल म.प्र. की ओर सादर सूचनार्थ।
2. संचालक, भौमिकी तथा खनिकर्म, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल की ओर सादर सूचनार्थ।

3/7/10/2022
प्रभारी अधिकारी
(खनिज शाखा)

जिला-बैतूल

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

धारकों द्वारा किये गये वृक्षारोपण की जानकारी, पौधों की संख्या एवं प्रजाति भी प्रस्तुत कर दी गई है। अतः समिति शहडोल 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।

(ह) अन्य गौण खनिज, जिला - बैतूल

Mineral	Other than Sand
Earlier DSR Discussed	SEAC 595 th Meeting dated 22.09.22
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation (Other than Sand)
Deliberation in the SEAC 594 th Meeting dated 22.09.22	<p>राज्य स्तरीय मूल्यांकन समिति की 595 वीं बैठक दिनांक 22/09/22</p> <p>कार्यालय कलेक्टर के पत्र क्र. 1368 दिनांक 19/09/2022 के माध्यम से जिला सर्वेक्षण रिपोर्ट- बैतूल (रेत खनिज) की जिला सर्वेक्षण रिपोर्ट उप समिति का अनुमोदन एवं जिला पोर्टल पर रखने के उपरांत प्रस्तुत की गई है।</p> <p>जिले की बैतूल जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज) में पाया गया कि:-</p> <ol style="list-style-type: none"> 1. प्रस्तुत संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 में जानकारी निर्धारित फॉर्मट (16 बिन्दुओं वाली टेबल) के अनुसार नहीं दी गयी है (तालिका -16 पेज 30)। 2. पिछले तीन वर्ष के दौरान उत्पादन किये गौण खनिज का ब्यौरा नहीं दिया गया है। 3. बड़वानी जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या, प्रजातियों की जानकारी को लीज-वार जिसमें यह दर्शाया गया हो कि निर्धारित लक्ष्य के विरुद्ध कितना पौधारोपण किया गया है। इसको भी सम्मिलित करें। <p>चर्चा उपरांत समिति की यह अनुशंसा है कि बैतूल जिले की जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज को समिति की सुझाई गयी उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 के अनुसार पुनः प्रस्तुत की जावे तत्संबंध में उपरिथत खनिज निरीक्षक को भी उपरोक्त संदर्भ में समझाईश दी गयी।</p>
Revised DSR received from District Collectorate (Mining)	Vide District Collectorate (Mining) Office, Baitul , No. 1481 dated 07.10.2022
Hard Copy Soft Copy or both	Hard copy
SEAC meeting dated 07/10/22	<ul style="list-style-type: none"> • जिले की जिला सर्वेक्षण रिपोर्ट के टेबल क्रमांक-9 (पेज क्र. 16-34) में खदान की जानकारी निर्धारित प्रपत्र में दे दी गई है। • जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी संख्या एवं प्रजातियों की जानकारी जिला सर्वेक्षण रिपोर्ट टेबल क्रमांक-26 (पेज क्र. 56-66) में दे दी गई है।

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

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

समिति ने पाया कि खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला- शहडोल के पत्र क्र. 1481 दिनांक 07/10/22 के माध्यम खदान की जानकारी निर्धारित प्रपत्र में दे दी गई है तथा लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, पौधों की संख्या एवं प्रजाति भी प्रस्तुत कर दी गई है। अतः समिति शहडोल जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज - रेत को छोड़कर) अनुमोदन हेतु बिचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

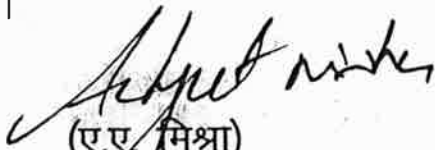
जिला सर्वेक्षण रिपोर्ट की अनुशंसाओं में त्रुटि सुधार


(अ). जिला सर्वेक्षण रिपोर्ट (रेत खनिज)- मंदसौर

समिति द्वारा सेक की राज्य स्तरीय मूल्यांकन समिति की 594 वीं बैठक दिनांक 21/09/22 में जिला सर्वेक्षण रिपोर्ट (रेत खनिज)- जिला मंदसौर के स्थान पर विदिशा जिला अंकित हो गया था जिसे टंकण त्रुटि में सुधार उपरांत जिला मंदसौर पढ़ा जाये व पूर्व में प्रेषित कार्यवाही विवरण 594 वीं बैठक दिनांक 21/09/22 (पृष्ठ क्र. - 64) में पूर्ववत् जारी शर्तें/अनुशंसा यथावत् रहेगी।

(ब). जिला सर्वेक्षण रिपोर्ट (रेत खनिज)- रतलाम

समिति द्वारा सेक की राज्य स्तरीय मूल्यांकन समिति की 596 वीं बैठक दिनांक 23/09/22 में जिला सर्वेक्षण रिपोर्ट (रेत खनिज)- जिला रतलाम के स्थान पर हरदा जिला अंकित हो गया था जिसे टंकण त्रुटि में सुधार उपरांत जिला रतलाम पढ़ा जाये व पूर्व में प्रेषित कार्यवाही विवरण 594 वीं बैठक दिनांक 21/09/22 (पृष्ठ क्र. - 48) में पूर्ववत् जारी शर्तें/अनुशंसा यथावत् रहेगी।


(ए.ए. मिश्रा)
सदस्य/सचिव


(डॉ. पी.सी. दुबे)
अध्यक्ष

PREAMBLE

The Ministry of Environment, Forests & Climate Change (MoEFCC), Government of India, made Environmental Clearance (EC) for mining of minerals mandatory through its Notification of 27th January, 1994 under the provisions of Environment Protection Act, 1986.

Keeping in view the experience gained in environmental clearance process over a period of one decade, the MoEFCC came out with Environmental Impact Notification, SO 1533 (E), dated 14th September 2006. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Schedule-1 of the Notification.

Further, In pursuance to the order of Hon'ble Supreme Court dated the 27th February, 2012 in I.A. No.12- 13 of 2011 in Special Leave Petition (C) No.19628-19629 of 2009, in the matter of Deepak Kumar etc. Vs. State of Haryana and Others etc., prior environmental clearance has now become mandatory for mining of minor minerals irrespective of the area of mining lease;

And also in view of the Hon'ble National Green Tribunal, order dated the 13th January, 2015 in the matter regarding sand mining has directed for making a policy on environmental clearance for mining leases in cluster for minor Minerals,

The Ministry of Environment, Forest and Climate Change in consultation with State governments has prepared Guidelines on Sustainable Sand Mining detailing the provisions on environmental clearance for cluster, creation of District Environment Impact Assessment Authority and proper monitoring of minor mineral mining using information technology and information technology enabled services to track the mined-out material from source to destination.

The SEIAA and SEAC will scrutinize and recommend the prior environmental clearance of mining of minor minerals on the basis of District Survey Report. This will be a model and guiding document which is a compendium of available mineral resources, geographical set up, environmental and ecological set up of the district and replenishment of minerals and is based on data of various departments, published reports, journals and websites. The District Survey Report will form the basis for application for environmental clearance, preparation of reports and appraisal of projects. The Report will be updated once every five years.

The main objective of the preparation of District Survey Report (as per the Sustainable Sand Mining Guideline) is to ensure the following -

- (i) Identification of areas of aggradations or deposition where mining can be allowed; and
- (ii) Identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and calculation of annual rate of replenishment and allowing time for replenishment after mining in that area.
- (iii) Identification of mineral wealth in the district.

Beinph
State Level Environment Impact
Assessment Authority, M.P.
(EPOO)
Paryaveran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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

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

CHAPTER - 1

1. Introduction:

With reference to Gazette notification of 15th January 2016 of Ministry of Environment, Forest and Climate Change, the District Environment Impact Assessment Authority (DEIAA) and District Environment Assessment Committee (DEAC) are to be constituted by the Divisional Commissioner for prior environmental clearance of mining of minor mineral. The DEIAA and DEAC will scrutinize and recommend the prior environmental clearance of mining of minor minerals on the basis of District Survey Report. This will be a model and guiding document which is a compendium of available mineral resources, geographical set up, environmental and ecological set up of the district and replenishment of minerals and is based on data of various departments, published reports, journals and websites.

District Betul is one of the districts in Madhya Pradesh which is lying on the southern part of the state, almost wholly on the Satpura Plateau. The district extends between 21° 22' and 22° 24' North latitude and 77° 04' and 78° 33' East Longitude and forms a compact shape, almost a square with slight projections on the east and west. The district constitutes 10 blocks spread across 5 Tehsils. The greatest length of the district is about 161 kms from east to west and 106 km from north to south. The total area of the district is 10,078.1 sq.km having a population of 13,95,175. The average rainfall of the district is 1085mm.

The district is bounded on the north by Hoshangabad district, on the south by Amravati district of Maharashtra, on the east by Chhindwara district and on the west by the districts of Harda, East Nimar and Amravati. The southern boundary of the district runs almost along the southern foothills of Melaghat range, but excludes Hattighat and Chikaldara hills in Amravati district. The western boundary is marked for some distance by the Ganjal River (southern), a tributary of Tapti, and then with the watershed line between the Morand and Ganjal (northern), the tributaries of the Narmada, the Northern boundary is marked by the course of the Morand River, and by the Tawa River beyond Dhara Mohar Railway station. The Eastern Boundary runs through small streams and hills among which some significant ones are Khurpura and Rotia Nalas.

Betul is apparently a tribal district, where 39.43% of the total population is Gond and Korku tribes. The major languages in the district are Hindi, Gondi, Korku, and Marathi language is spoken widely in southern part of the district. Among the castes Gonds, Korkus, Kurmis, Kumbis, Bhojars, Meharas, Chamars, Banias, Rajputs are the major ones. Betul is well connected by road & rail network. It is located on the Delhi – Chennai broad-gauge railway line & National Highway No. 69 also passes through this district. The nearest airports are in Nagpur & Bhopal. Main rivers are Tapti, Poorna, Wardha, Machna, Sapna and Tawa.

Pathankheda in Ghoradongri block is famous for its coalfields and finds use at the Satpura thermal power station, Sarni for electricity production. Around 22 villages of Shahpura Block and 32 villages of Ghoradongri block come within the Panchmarhi Biosphere Reserve area. The said area is famous for its rare species of flora and fauna. Northern and western parts comprising of Bhimpur, Ghoradongri, Shahpur and some parts of Athner Blocks of the district, are the prime source of valuable forest produce. Bhainsdehi and part of Betul block are also rich likewise. Main produce are teak-wood, bamboo and other minor forest produce along with herbs of important medicinal values, as the district is widely spread on the Satpura Mountain plateau, it is covered with the enchanting greenery of forest. Lofty mountains of Satpura Range enhance its charm further.

The district is divided into 8 Tehsils and ten blocks the district is predominantly a rural district there are 1343 villages. The total population of the district of as per 2001 census. The details of administrative units are given in table - 1.

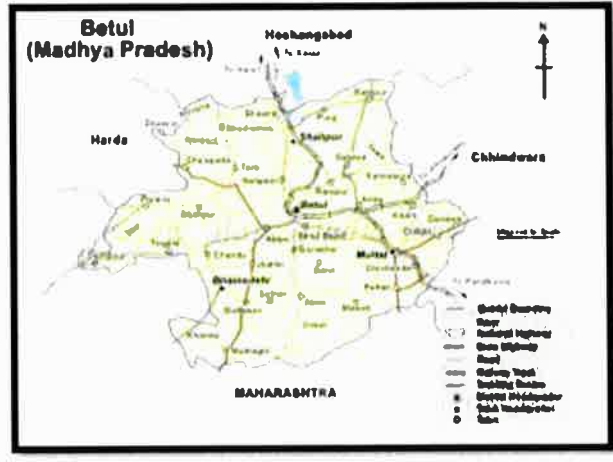
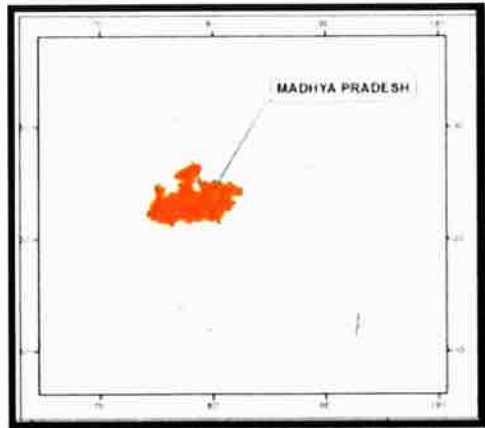


Figure-1 Location Map of the District


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Administrative Divisions, District Betul M.P. (Census-2011)

DISTRICT	SUB DIVISION	TEHSIL
BETUL	Betul	Betul
	Multai	Multai
	Bhensdehi	Amla
	Shahpur	Bhainsdehi
		Athner
		Shahpur
		Ghoradongri
		Chicholi
		Bhimpur
	Prabhat Pattan	

BETUL DISTRICT CENCUS UPTO 2011	
PERTICULARS	2011
ACTUALPOPULATION	1575247
MALE	799721
FEMALE	775526
POPULATION INCREASE	12.91%
POPULATION RATIO OF MP	2.17%
SEX RATIO (IN 1000)	970


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CHAPTER -3

3. General Profile of the District:

BETUL DISTRICT AT A GLANCE

S.No	ITEMS	Statistics	
1.	GENERAL INFORMATION		
S.No	ITEMS	Statistics	
1.	GENERAL INFORMATION		
	i) Geographical area (In Sq. km)	10078	
	ii) Administrative Divisions (As on 2013)Number of Tehsil/ Block , Number of Panchayat /Villages	8/10, 553/1409	
	iii) Population (As per Census 2011)	15,75,247	
	iv) Normal Rainfall (mm)	1129.6	
2.	GEOMORPHOLOGY		
	i) Major Physiographic Units	i. Satpura plateau in the Tawa and Morand valleys ii. Satpura plateau in the central and southern iii. Tapi valley	
	ii) Major Drainage	i. Tawa, Morand, Machna and Bhangi of Narmada Basin ii. Wardha and Bel of Wardha basin iii. Tapi, Maru and Tapi of Tapi basin	
3.	LAND USE (sq km)		
	i) Forest area	3967	
	ii) Net area sown:	4046	
	iii) Cultivable area:	4040	
4.	MAJOR SOIL TYPES	Black cotton	
5.	AREA UNDER PRINCIPAL CROPS	Wheat, Rice, Jowar, Maize Sugarcane etc.	
6.	IRRIGATION BY DIFFERENT SOURCES	Number of Structures	Area in Sq km
	Dug wells	53150	716
	Tube wells/Bore wells	3427	126
	Tanks/Ponds	15	2
	Canals	92	189
	Other Sources	-	126

	Net Irrigated Area	-	1159
7.	NUMBER OF GROUND WATER MONITORING WELLS OF CGWB(As on 31.3.2013) No. of Dug Wells / No. of Piezometers	23 / 07	
8	PREDOMINANT GEOLOGICAL FORMATIONS	Deccan Trap Lava Flows, Lameta beds, Upper and Lower Gondwanasand Archaeans	
9	HYDROGEOLOGY Major Water Bearing Formation Pre-monsoon Depth to water level during 2012 Post-monsoon Depth to water level during 2012 Long Term water level trend in 10 years	Weathered & Fractured basalt Weathered & Fractured sandstone Weathered / Fractured granite, gneiss, amphibolites 2.0 – 16.40 0.51 9.75 Fall Pre 0.02-0.1	
10.	GROUND WATER EXPLORATIONBY CGWB (As on 31-03-2013) No of wells drilled EW, OW, PZ, SH, Total) Depth Range (m) Discharge (litres per second)Storativity (S) Transmissivity (m ² /day)	EW-55 PZ-08 Ow-29 10-300, 0.75-20 lps, 1-3 lps 4.7x10 ⁻⁴ to 6.5x10 ⁻⁵ .8-442.8 m ² /day	
11.	GROUND WATER QUALITY Presence of Chemical constituents more than permissible limit (eg EC, F, As, Fe) Type of Water	EC- 262-1670, Nitrate- 1.3-156, Fluoride - .09-.9 in phreatic aquifer	
12	DYNAMIC GROUND WATER RESOURCES (2009) In MCM Net Ground Water Availability Gross Annual Ground Water Draft Projected Demand for Domestic and Industrial Uses up to 2033 Stage of Ground Water Development	1139.70 536.22 46.38 47 %	
13.	AWARENESS AND TRAINING ACTIVITY Mass Awareness Programs organized 03 Date: Place: No. of Participants Water Management Training Programmes Organized No: Date: Place: No. of Participants	19.09.05, 12.9.06 07.10.06. Betul, Sasundra, Athner 50 150 170 14: 09.05 & 06.10.06 :(Betul) Pathakheda 60 to 70	
14	EFFORTS OF ARTIFICIAL RECHARGE & RAINWATER HARVESTING		

	Projects under technical guidance of CGWB(Numbers)	01 , Central Sector scheme in Bel watershed in Amla block and dug-well recharge
15.	GROUND WATER CONTROL AND REGULATION	
	Categorization of blocks	All block under Safe category
16	MAJOR GROUND WATER PROBLEMS AND ISSUES	Depleting ground water level


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CHAPTER -4

4. Geology of the district:

Rock formations ranging in age from Archean to Quarternary are exposed in the district. Betul gneissic complex, volcano- sedimentary sequence, younger Meta- Sediments, Acid and basic intrusive of Archean to Neo Proterozoic age (3500-900 m.y.) occupies the northeastern and northern part of the district. Amla Gneiss of Betul Gneissic complex is the oldest litho - unit and is exposed at 16 km south west of Betul town. It comprises various types of gneisses. Golighat group comprises quartzite, schist, and marble and schistose amphibolites. Volcano - Sedimentary sequence comprises green schist belt with bands of marble, calc- silicate, amphibolites and quartzite. Younger Meta- Sediments comprises phyllite with interbands of marble, banded hematite quartzite, dolomite, marble, calc-silicate, quartzitic, arenite, ferruginous sandstone, felspathic-quartz schist and quartzite, Acid intrusive comprises, granite, pegmatitic, granite, foliated granite, quartz, breccias with pegmatite and quartz veins, basic intrusive comprises gabbro, diorite, pyroxinite and amphibolites.

Archaeans

The crystalline metamorphic and igneous rocks covers approximately 20% of the total district area. The igneous rocks are intensive granite and pegmatite veins intending the metamorphic rocks. Quartz pegmatite views are common features and occurs as broad dykes and thin strings. The ground basins are conterminous with surface drainage sub basin thus ground water flow system are of local types where end system has its recharge area at topographic low. The Archaeans are mainly occupying the Betul, Chichab, Multai and Amla blocks. These rocks do not have primary porosity and hydraulic conductivity. The weathered part of the crystalline rocks are called saprolite, which is of particular interest from the point of view of storage zone for ground water and as an aquifer for open well and shallow tube wells. The thickness of this zones in the entire district area ranges from 2.5 to 30.00 m. in this formation, aquifers also occurs where bed rock and quartz pegmatite intensive vein are jointed and fractures. The yield depends upon saturated thickness of the weathered mantle and fracture pattern of the rocks.

Gondwana

The Gondwana rocks are comprising succession of sand stone, shales with seems of coal lying over the metamorphic rocks of crystalline Archaean system with a district unconformity. The beds of Gondwana rocks are distributed in patches and lie in a liner trends coinciding almost with the present river valleys. There rocks show considerable faulting. The Talchir beds consisting of sandstone and green clays with boulders contain plant fossils.

There are bounded by faults. The west and north west of Betul, there are out of Gondwana rocks which separates decant traps from Archaeans rocks. Barkars of Gondwana group contains coal seams.

Deccan Traps

Deccan traps comprising varies types of basaltic lava flows and most extensive rocks in the district. There rocks occupying in Betul, Multai, Bhimpura, Chicholi, Bhainsdehi, Atner and Prabkat pattam blocks. The base of the flow consist of a porons layers of earthy basalt which passes rapidly into the main body. Of flow consisting of great thickness of hard basalt. Generally the Deccan trap in the area occurs in the form of fractures, weathered and vesicular basalts.

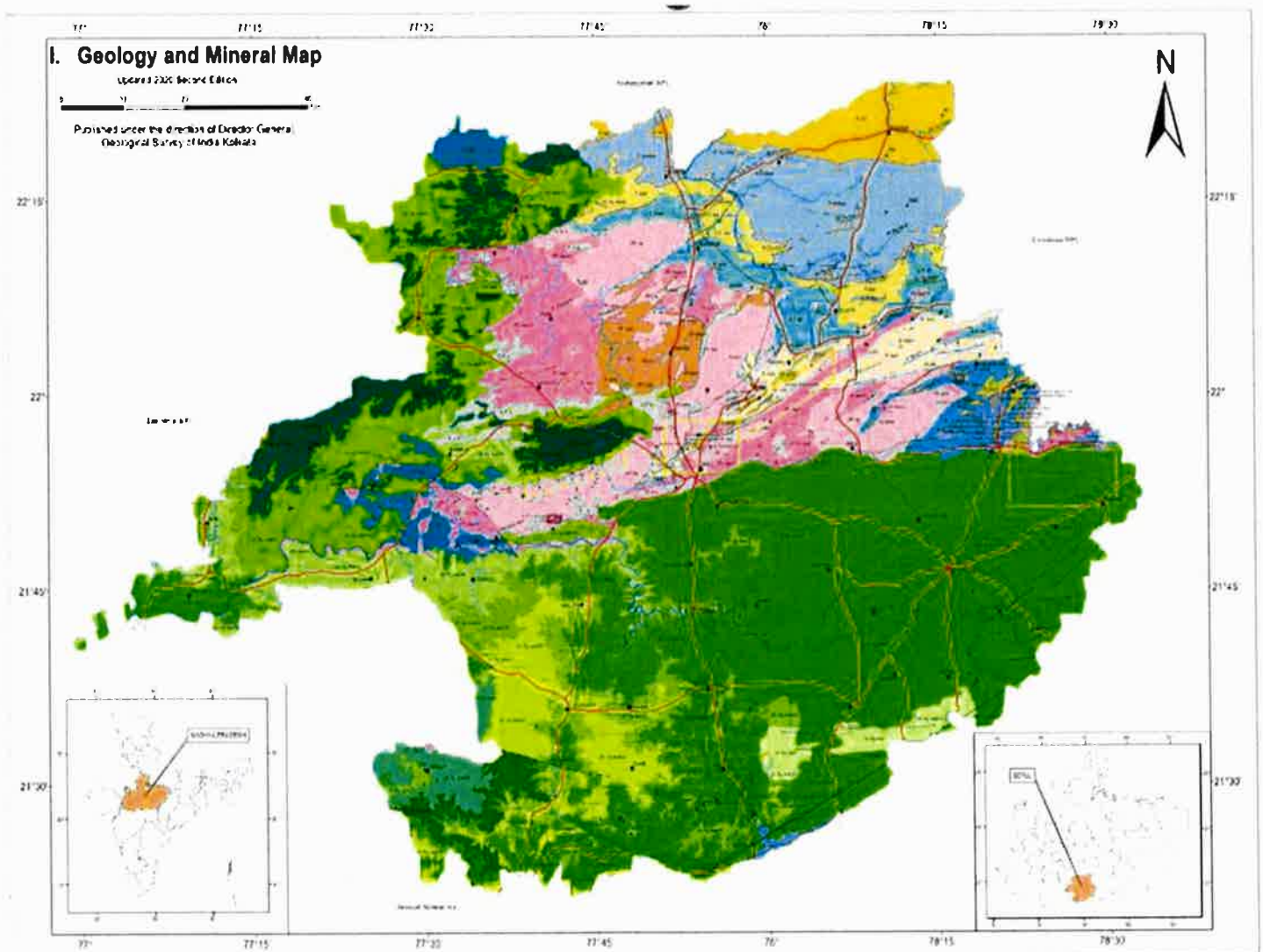
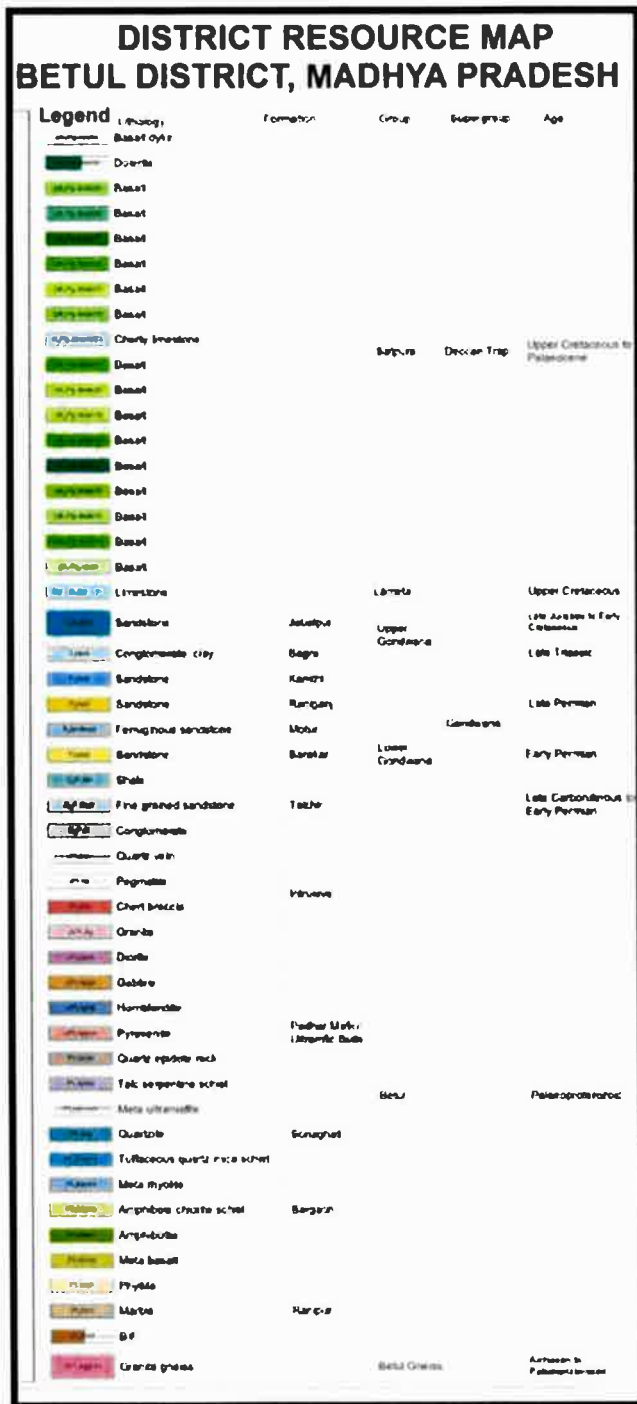


Figure-5 Geological Map Index




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CHAPTER -5

5. Drainage & Irrigation Pattern:

The drainage of the district is diverted in all direction from the eastern high mass of Satpura plateau. The northern and central part of the district drains into the Narmada in the north through Tawa, Machna Morand and the Bhange. The Tapi bengh basically consequent river and flowing to the west drain water of the western and southern central part of the Purna, Mam and Wadha occupy small areas of their drainage in the southern part of the district.



CHAPTER -6

6. Land Utilization Pattern in the district: Forest, Agriculture, Horticulture, Mining etc. (Area in Hect.)

Land utilization pattern in ha district is as follows:

Total Area - 10,078 Sq. Km.

Forest Area

1. Betul General Area - 1023.52 Sq. Km.
 2. Betul - South - 1505.25 Sq. Km.
 3. Betul - West - 1116.28 Sq. Km
- Total Area - 3645.53 Sq. Km**

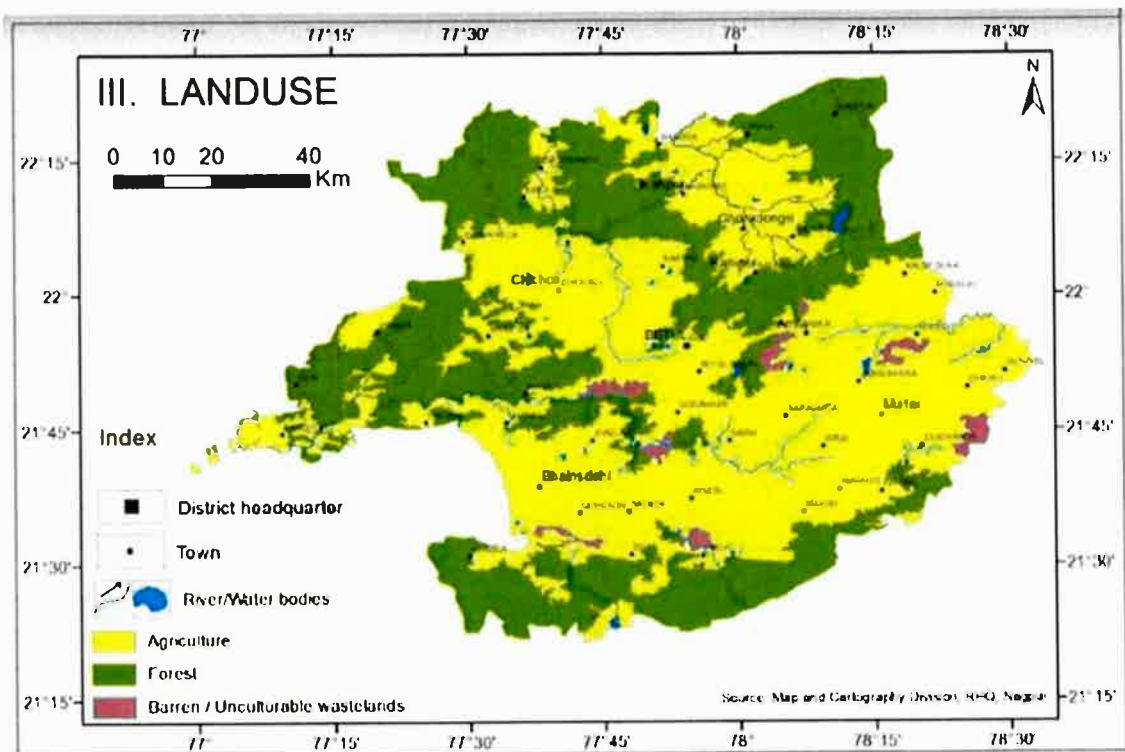



Figure-6 Land Use Map of the District

Land Area	Sq. Km.
Agriculture Land	6076
Irrigated Land	1908
Mining Area	29.48


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CHAPTER -7

7. Surface Water and Ground Water scenario of the district

The major rivers flowing in the district are the Ganjal River, Morand River and the Tawa River (tributaries of the Narmada River). The Tapti River originates from Multai in the Betul district.



Figure-7 RIVER MAP OF BETUL DISTRICT

CHAPTER -8

8. Rainfall of the district & Climatic condition:

The climate of Betul is characterized by a hot summer and general dryness except rainfall during the south- west monsoon season. The year can be divided into four seasons. The cold season, December to February is followed by hot season from March to about first week of June is the summer season. The period from the middle June to September is the south-west monsoon season. May is the hottest month of the year with average temperature of 39.3oC. The minimum during the December is 10.3oC. The normal annual mean maximum and minimum temperature is 30.7oC and 17.9oC respectively. The south-west monsoon starts from middle of June and lasts till end of September. October and middle of November constitute the post monsoon or retreating monsoon season. The normal annual rainfall of Betul district is 1129.6 mm. About 86.6% of annual rainfall is received during monsoon season. Only 13.4% of annual rainfall takes place between Octobers to May. The humidity comes down lowest in April. It varies between 31% to 91% at different time in different seasons. The wind velocity is high during the monsoon period as compared to pre and post monsoon. The wind velocity is higher in June around 8.5Km/hr and lowest is 3.8 km/hr in November.

Annual Rainfall data (Last three year):

SN	MONTH	ANNUAL RAINFALL (mm)			
		2019-20	2020-21	2021-22	2022-23
1	June	69.6	242.7	232.6	131.1
2	July	341.5	161.4	387.7	751.2
3	August	479.1	549.5	167.8	445.5
4	September	305.2	169.2	238	261.4
5	October	82.2	32.2	78.5	
6	November	3.4	1.4	15.7	
7	December	10.8	4.3	6.7	
8	January	29.7	0	20.8	
9	February	10.3	14.9	2.1	
10	March	40	15.1	2.6	
11	April	6.8	5.4	2.3	
12	May	1	40.9	0	
	Total	1379.6	1237	1154.8	1589.2

CHAPTER -9

9. Details of the Mining leases in the district:

Details of the Quarry leases (minor minerals) in the district


Sr No.	Name of Mineral	Name & Address of Lessee's	Contact No. of Lessee	Mining Lease Grant Order	Area in Ha	Period Mining Lease (Initial)		Period Mining Lease (Renewal)		Date of Commencement of Mining Operation	Status (Working/ Non Working)	Captive/ Non Captive	EC Obtained/ letter no. Date of EC	Location of Mining Lease (GPS Coordinates)		Method of Mining
						From	To	From	To					Latitude	Longitude	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	Stone(Gitti)	SMT. SARIKA BHAWARSAR W/O UMESH BHAWARSAR ADD. DURGA WARD KOTHI BAZAR BETUL	9425002405	359 04/03/2014	1.965	28-10-14	27-10-24	-	-	19-07-16	Working	Non Captive	12 17/05/2016	21°47'26.12"N 21°47'29.47"N 21°47'28.61"N 21°47'23.55"N	77°54'37.87"E 77°54'39.80"E 77°54'43.69"E 77°54'42.47"E	Opencast
2	Stone(Gitti)	SHRI RAJ SINGH PARIHAR S/O YURAJ SINGH PARIHAR ADD. GANDHI NAGAR GANJ BETUL	9425002386	19802 22/10/2014	1.500	14-07-15	13-07-25	-	-	19-09-16	Working	Non Captive	13 17/05/2016	21°49'47.49"N 21°49'47.35"N 21°49'44.26"N 21°49'40.47"N 21°49'41.87"N	77°47'12.98"E 77°47'15.25"E 77°47'13.30"E 77°47'16.05"E 77°47'17.44"E	Opencast
3	Stone(Gitti)	SHRI SHEIKH ALTAF S/O SHEIKH IBRAHIM ADD. KIDWAI WARD BETUL DISTRICT BETUL	9.425E+09	7069-70 08/05/2015	1.000	06-08-03	05-08-13	06-08-13	05-08-23	30-09-03	Working	Non Captive	126 30/06/2017	21°44'39.94"N 21°44'42.90"N 21°44'39.45"N 21°44'40.43"N	77°53'50.69"E 77°53'51.38"E 77°53'55.74"E 77°53'55.89"E	Opencast
4	Stone(Gitti)	SHRI NITESH PARIHAR S/O BRAJLAL PARIHAR ADD. TEGOR WARD GANJ. BETUL	9424461577	194 30/01/2016	1.700	02-07-16	01-07-26	-	-	28-04-17	Working	Non Captive	42 31/05/2016	21°49'12.93"N 21°49'12.26"N 21°49'18.19"N 21°49'17.93"N 21°49'13.76"N	77°57'19.57"E 77°57'21.55"E 77°57'21.98"E 77°57'25.59"E 77°57'23.85"E	Opencast

5	Stone(Gitti)	SMT MEENA ADBHITE W/O RAMESH ADBHUTE ADD. GRAM NAHIYA TEHSIL BETUL DISTRICT BETUL	8889267229	359 04/03/2014	2.000	21-12-16	20-12-26	15-04-17	16-04-17	15-04-27	19-06-08	Working	Non Captive	69 05/08/2 016	21°53'27.17"N 21°53'26.44"N 21°53'22.09"N 21°53'18.94"N 21°53'18.43"N 21°53'19.54"N	78° 2'38.34"E 78° 2'39.75"E 78° 2'38.27"E 78° 2'37.07"E 78° 2'38.74"E 78° 2'41.81"E	Opencast
6	Stone(Gitti)	SHRI BRANDAVAN YADAV S/O DURGA PRASAD YADAV ADD. NEAR BSNL TOWER SADAR BETUL	9425193066	1532 06/10/2016	1.000	22-02-07	21-02-17	22-02-17	23-04-17	22-04-27	06-07-07	Working	Non Captive	11639 04/03/2 016	21°50'7.95"N 21°50'11.06"N 21°50'10.41"N 21°50'11.27"N 21°50'14.35"N 21°50'14.97"N	77°47'44.50"E 77°47'48.83"E 77°47'42.12"E 77°47'43.12"E 77°47'45.26"E 77°47'45.94"E	Opencast
7	Stone(Gitti)	SHRI MUKESH KUMAR KHANDELWAL S/O VIJAY KUMAR KHANDELWAL ADD. KOTHIBAZAR BETUL	9425002066	257 25/02/2017	1.500	23-04-07	22-04-17	23-04-17	23-04-17	22-04-27	24-07-07	Working	Non Captive	11687 04/03/2 016	21°52'53.44"N 21°52'51.97"N 21°52'54.20"N 21°52'51.07"N	78° 3'8.36"E 78° 3'8.44"E 78° 3'1.08"E 78° 3'1.44"E	Opencast
8	Stone(Gitti)	SHRI MAHENDRA KUMAR MALVIYA S/O SRIKALURAM MALVIYA ADD. R K PURAM DUWARIKA NAGAR BADORA BETUL	9425002619	256 25/02/2017	0.750	23-04-07	22-04-17	23-04-17	23-04-17	22-04-27	24-07-07	Working	Non Captive	11865 04/03/2 016	21°52'59.49"N 21°52'58.69"N 21°52'59.87"N 21°53'0.23"N	78° 3'1.52"E 78° 3'8.95"E 78° 3'9.69"E 78° 3'1.35"E	Opencast
9	Stone(Gitti)	SHRI MAHENDRA KUMAR MALVIYA S/O SRIKALURAM MALVIYA ADD. R K PURAM DUWARIKA NAGAR BADORA BETUL	9425002619	601 15/05/2020	6.433	09-02-22	08-02-32	15-04-17	16-04-17	15-04-27	30-06-22	Working	Non Captive	708 18/05/2 021	21°52'55.98"N 21°52'43.61"N 21°52'42.19"N 21°52'46.86"N 21°52'55.85"N	78° 2'59.85"E 78° 2'51.05"E 78° 2'53.45"E 78° 3'2.31"E 78° 3'0.72"E	Opencast
10	Stone(Gitti)	SHRI DEVENDRA KUMAR PANSE S/O DEVARAO PANSE ADD. BETUL	9424488872	1429 19/09/2016	1.000	16-04-07	15-04-17	16-04-17	16-04-17	15-04-27	19-06-08	Working	Non Captive	808 17/05/2 016	21°45'58.77"N 21°45'58.42"N 21°45'54.07"N 21°45'54.97"N	77°52'52.34"E 77°52'49.41"E 77°52'50.66"E 77°52'53.06"E	Opencast

11	Stone(Gitti)	SHRI SANJAY BHAWASAR S/O PREMLAL BHAWASAR ADD. MALVIYA WARD KHANJANPUR BETUL	9977469988	551 24/04/2017	2.000	25-11-17	24-11-27			03-01-18	Working	Non Captive	138 14/01/2 017	21°46'42.19"N 21°46'42.93"N 21°46'46.35"N 21°46'46.27"N 21°46'48.19"N 21°46'48.13"N	77°53'22.14"E 77°53'18.18"E 77°53'18.22"E 77°53'20.53"E 77°53'20.76"E 77°53'23.80"E	Opencast
12	Stone(Gitti)	SHRI MUKESH PAWAR S/O KALIRAM PAWAR ADD. GRAM KADHAI POST BHARAT BHARTI TEHSIL BETUL DISTRICT BETUL	8959431635	1257 06/10/2017	2.000	21-06-18	20-06-28			06-10-18	Working	Non Captive	09 12/02/2 018	21°44'53.72"N 21°44'56.48"N 21°45'0.10"N 21°45'1.09"N 21°45'0.17"N 21°44'53.44"N	77°53'14.78"E 77°53'15.20"E 77°53'15.20"E 77°53'17.17"E 77°53'18.93"E 77°53'18.20"E	Opencast
13	Stone(Gitti)	SMT MANOJ KUMAR TYAGI S/O RAM PRAKASH TYAGI ADD. VIKAS NAGAR KALAPATHA BETUL	9630123436	1076 31/05/2019	1.269	15-06-20	14-06-30			24-12-20	Working	Non Captive	411 30/05/2 020	21°45'4.76"N 21°45'1.99"N 21°45'1.11"N 21°45'4.83"N	77°53'57.12"E 77°53'57.01"E 77°54'1.42"E 77°54'1.63"E	Opencast
14	Stone(Gitti)	SMT. SARIKA BHAWASAR W/O UMESH BHAWASAR ADD. DURGA WARD KOTHI BAZAR BETUL	9425002405	590 13/05/2020	2.000	29-12-20	28-12-30			23-04-21	Working	Non Captive	360 14/10/2 020	21°52'46.05"N 21°52'41.86"N 21°52'43.25"N 21°52'46.81"N	77°27'59.56"E 77°28'2.93"E 77°28'7.15"E 77°28'4.56"E	Opencast
15	Stone(Gitti)	MS ANKUR CONSTRUCTION PRO ANKUR TATED ADD. CIMENT ROAD KOTHI BAZAR BETUL	9425002303	14037 14/12/2020	2.000	13-01-21	12-01-31			23-07-21	Working	Non Captive	3632 14/10/2 020	21°45'8.23"N 21°45'7.36"N 21°45'13.89"N 21°45'16.42"N	77°53'16.17"E 77°53'19.94"E 77°53'18.93"E 77°53'16.27"E	Opencast
16	Stone(Gitti)	SHRI VISHAL AGRAWAL S/O NATHURAM AGRAWAL ADD. GHORADONGARI DIST. BETUL	9425002718	248 14/02/2014	1.165	01-12-14	30-11-24			26-10-15	Working	Non Captive	4725 13/08/2 015	22° 5'56.12"N 22° 5'57.54"N 22° 5'59.29"N 22° 5'59.19"N 22° 5'58.26"N 22° 5'56.22"N	77°58'50.08"E 77°58'55.67"E 77°58'55.83"E 77°58'50.03"E 77°58'48.66"E 77°58'48.23"E	Opencast

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

17	Stone(Gitti)	SHRI SWAPAN VISWAS S/O HARADHAN VISWAS ADD. GRAM AMDOH THESIL GHORADONGARI DIST.BETUL	9753698568	237 09/02/2016	2.725	06-12-16	05-12-26			17-01-17	Working	Non Captive	65 05/10/2 016	22°14'35.99"N 22°14'40.54"N 22°14'36.45"N 22°14'34.58"N	78°2'35.93"E 78°2'27.25"E 78°2'30.66"E 78°2'33.11"E	Opencast
18	Stone(Gitti)	SHRI RAJESH AGRAWAL S/O RADHE SHAYAM AGRAWAL ADD. GRAM GHORADONGARI DIST.BETUL	9406923101	1485 20/11/2017	1.972	27-04-18	26-04-28			20-07-18	Working	Non Captive	14 12/02/2 018	22°8'17.77"N 22°8'16.91"N 22°8'18.81"N 22°8'21.30"N	78°0'49.86"E 78°0'55.90"E 78°0'56.46"E 78°0'50.19"E	Opencast
19	Stone(Gitti)	SHRI VIKAS BATRA S/O RAMESH BATRA ADD. GHORADONGRI TH.GHORADONGRI DIST.BETUL	9425002223	1120 11/09/2017	0.586	16-07-08	15-07-18	16-07-18	15-07-28	23-10-08	Working	Non Captive	32 31/03/2 016	22°7'55.27"N 22°7'57.23"N 22°7'58.24"N 22°7'56.22"N 22°7'56.75"N 22°7'56.33"N	77°58'31.72"E 77°58'32.31"E 77°58'30.13"E 77°58'29.10"E 77°58'26.11"E 77°58'26.08"E	Opencast
20	Stone(Gitti)	SHRI JITENDRA SONARE S/O MAROTI RAO SONARE ADD. GHORADONGARI DIST.BETUL	9301879317	1269 06/07/2018	1.490	21-12-18	20-12-28			31-01-19	Working	Non Captive	31 24/09/2 018	22°5'17.12"N 22°5'16.18"N 22°5'17.79"N 22°5'19.66"N 22°5'19.81"N	77°58'57.25"E 77°59'3.77"E 77°59'3.99"E 77°59'2.05"E 77°58'57.66"E	Opencast
21	Stone(Gitti)	SHRI AKASH AGRAWAL S/O KAILASH CHANDRA AGRAWAL ADD. GHORADONGARI DIST.BETUL	9407519991	1656 10/09/2018	1.000	28-04-09	27-04-19	28-04-19	27-04-29	09-09-09	Working	Non Captive	33 31/05/2 016	22°5'52.50"N 22°5'54.77"N 22°5'54.28"N 22°5'51.45"N	77°59'7.33"E 77°59'12.89"E 77°59'13.50"E 77°59'10.40"E	Opencast


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22	Stone(Gitti)	CHARNJEET SINGH ARORA S/O SURENDRA SINGH ARORA ADD. NEAR POLICE THNA AMLA DISTRICT BETUL	8770251769	10927 10/06/2014	1.334	13-08-04	12-08-14	13-08-14	12-08-24	27-05-15	Working	Non Captive	175 10/04/2 015	21°50'51.90"N 21°50'53.96"N 21°50'56.73"N 21°50'55.73"N	78° 2'33.40"E 78° 2'34.25"E 78° 2'29.68"E 78° 2'27.70"E	Opencast
23	Stone(Gitti)	SHRI PERMINDER SINGH CHADHA S/O MANMOHAN SINGH CHADHA ADD. MAIN ROAD BORKHI CHOUK AMLA DISTRICT BETUL	9425402200	19794 22/10/2014	0.800	04-04-03	03-04-13	04-04-13	03-04-23	29-08-18	Working	Non Captive	14 17/05/2 016	21°53'29.72"N 21°53'32.24"N 21°53'32.75"N 21°53'29.99"N	78° 2'44.49"E 78° 2'44.50"E 78° 2'41.48"E 78° 2'41.00"E	Opencast
24	Stone(Gitti)	MS SHRI BALAJI ASSOCIATES PRO. NARAYAN PAWAR ADD. HOUSING BOARD COLONY GANJ BETUL	9826023391	7126 03/04/2017	3.900	27-06-17	26-06-27			29-05-18	Working	Non Captive	134 30/06/2 017	21°50'22.61"N 21°50'15.06"N 21°50'12.94"N 21°50'12.51"N 21°50'17.59"N 21°50'22.98"N	78° 3'14.83"E 78° 3'14.00"E 78° 3'17.63"E 78° 3'20.08"E 78° 3'20.35"E 78° 3'18.50"E	Opencast
25	Stone(Gitti)	SMT SANGEETA THAKUR RAGHUVANSHI W/O BALWANT SING RAGHUVANSHI BAMHNI, TAH. AMLA DIST. BETUL. M.P.	9753212040	918 21/06/2016	1.000	22-05-17	21-05-27			05-07-17	Working	Non Captive	110 01/04/2 017	21°53'40.98"N 21°53'44.80"N 21°53'45.78"N 21°53'42.55"N	78°19'23.19"E 78°19'26.10"E 78°19'24.03"E 78°19'20.28"E	Opencast
26	Stone(Gitti)	SHRI NITIN HARODE W/O YADAVRAV HARODE ADD. VIKAS NAGAR KALAPATHA BETUL	9425474217	659 18/05/2017	1.000	09-04-07	08-04-17	09-04-17	08-04-27	09-04-07	Working	Non Captive	4088 22/10/2 020	21°51'20.51"N 21°51'20.85"N 21°51'16.63"N 21°51'15.91"N	78° 1'26.93"E 78° 1'24.67"E 78° 1'23.69"E 78° 1'26.11"E	Opencast
27	Stone(Gitti)	SHRI RAHUL PATEL S/O SHANTIBHAI PATEL ADD. RAILWAY GET BETUL GANJ BETUL	9425002469	662 10/04/2018	0.750	09-09-08	08-09-18	09-09-18	08-09-28	09-09-08	Working	Non Captive	39 31/05/2 016	21°51'17.76"N 21°51'4.57"N 21°51'4.31"N 21°51'7.28"N	78° 1'59.15"E 78° 1'58.39"E 78° 2'1.09"E 78° 2'1.52"E	Opencast

28	Stone(Gitti)	SHRI UPENDRA KUMAR SURYAWANSHI S/O NATHU PRASAD SURYAWANSHI ADD. CHANDRASHEKHAR WARD SADAR BETUL	9424413705	1553 29/11/2017	1.000	19-09-18	18-09-28	06-01-19	05-01-19	06-01-19	05-01-29	18-03-20	Working	Non Captive	13 12/08/2 018	21°51'14.54"N 21°51'16.67"N 21°51'18.51"N 21°51'16.34"N	78° 2'41.33"E 78° 2'42.40"E 78° 2'47.46"E 78° 2'47.58"E	Opencast
29	Stone(Gitti)	SHRI RAJENDRA DESHMUKH S/O MAROTIRAO DESHMUKH ADD. KHIDKIKALA TH.AMLA DIST.BETUL	9826969626	1011 01/06/2018	0.809	06-01-09	05-01-19	06-01-19	05-01-19	06-01-19	05-01-29	22-07-19	Working	Non Captive	24 17/05/2 016	21°54'41.32"N 21°54'44.47"N 21°54'44.87"N 21°54'43.81"N 21°54'42.52"N 21°54'41.70"N	78° 4'27.92"E 78° 4'26.95"E 78° 4'30.22"E 78° 4'30.68"E 78° 4'29.77"E 78° 4'30.08"E	Opencast
30	Stone(Gitti)	MS SHRI TIRUPATI BALAJI ASSOCIATES PRO. ADITYA AWASTHI ADD. KOTHIBAZAR BETUL DIST.BETUL	9753808024	1053 27/05/2019	1.000	20-03-20	19-03-30	20-03-20	19-03-30	20-03-20	19-03-30	11-08-20	Working	Non Captive	35 05/05/2 020	21°50'13.78"N 21°50'12.11"N 21°50'10.83"N 21°50'13.24"N	78° 3'1.63"E 78° 3'1.27"E 78° 3'6.09"E 78° 3'7.02"E	Opencast
31	Stone(Gitti)	SHRI NIRMAL SINGH SALUJA S/O DILIP SINGH SALUJA ADD. BUS STATION AMLA DISTRICT BETUL	8962147271	916 03/07/2020	1.000	24-12-20	23-12-30	24-12-20	23-12-30	24-12-20	23-12-30	23-04-21	Working	Non Captive	3630 14/10/2 020	21°55'3.43"N 21°55'7.43"N 21°55'5.40"N 21°55'3.41"N	78° 5'22.00"E 78° 5'19.03"E 78° 5'17.19"E 78° 5'19.46"E	Opencast
32	Stone(Gitti)	SHRI RAVI KUMAR SAHU W/O PREMCHAND SAHU ADD. MAHAVEER WARD MULTAI TH.MULTAI DIST.BETUL	7415604434	195 05/07/2014	0.600	03-02-04	02-02-14	03-02-04	02-02-14	03-02-14	02-02-24	30-07-16	Working	Non Captive	10491 13/01/2 016	21°44'26.46"N 21°44'28.60"N 21°44'27.55"N 21°44'24.97"N	78°15'21.96"E 78°15'19.21"E 78°15'17.49"E 78°15'21.26"E	Opencast

33	Stone(Gitti)	SHRI SANTOSH KUMAR DONGARDIYE S/O BALARAM DONGARDIYE ADD. GRAM KAMTH TH MULTAI DIST BETUL	9425693492	1715 04/02/2015	2,000	05-01-16	04-01-26	.	.	.	02-08-16	Working	Non Captive	6969 30/10/2 015	21°44'17.23"N 21°44'12.07"N 21°44'11.45"N 21°44'15.17"N	78°15'29.76"E 78°15'32.44"E 78°15'36.28"E 78°15'29.61"E	Opencast
34	Stone(Gitti)	SMT KAUSHLYA BAI DESHMUKH W/O AJABRAO DESHMUKH ADD. GHANDHI WARD MULTAI DIST. BETUL	9425629169	7278 07/05/2016	1,300	28-07-16	27-07-26	.	.	.	01-04-17	Working	Non Captive	71 05/10/2 016	21°45'17.15"N 21°45'16.86"N 21°45'12.05"N 21°45'12.85"N	78°19'29.31"E 78°19'26.34"E 78°19'26.88"E 78°19'30.29"E	Opencast
35	Stone(Gitti)	SHRI CHHOTELAL SARODE S/O BUDDHU SARODE ADD. GRAM DEVARI TEHSIL MULTAI DIST BETUL	9039937989	333 25/02/2016	1,000	23-12-16	22-12-26	.	.	.	28-02-16	Working	Non Captive	70 05/10/2 016	21°48'12.68"N 21°48'16.49"N 21°48'17.35"N 21°48'14.69"N	78°17'16.86"E 78°17'18.56"E 78°17'17.35"E 78°17'13.78"E	Opencast
36	Stone(Gitti)	SHRI UMESH SAHU S/O IMRATLAL SAHU ADD. MAHAVEER WARD MULTAI	9893770315	273 16/02/2016	1,000	30-08-17	29-08-27	.	.	.	06-09-18	Working	Non Captive	109 01/04/2 017	21°39'48.57"N 21°39'45.34"N 21°39'45.51"N 21°39'48.81"N	78°11'10.85"E 78°11'10.15"E 78°11'13.69"E 78°11'14.39"E	Opencast
37	Stone(Gitti)	SHRI TAQIUL HASAN RIZVI S/O IBNE HASAN RIZVI ADD. GRAM UBHARIYA TH.MULTAI DIST.BETUL	9425659365	1723 15/11/2018	1,275	24-08-17	23-08-27	.	.	.	27-09-17	Working	Non Captive	128 30/06/2 017	21°50'25.49"N 21°50'28.30"N 21°50'26.33"N 21°50'25.22"N	78° 8'25.35"E 78° 8'25.53"E 78° 8'28.25"E 78° 8'27.25"E	Opencast
38	Stone(Gitti)	RAJENDRA SINGH KILEDAR CONSTRUCTION PVT LTD DIRECTOR RAGHVENDRA SINGH KILEDAR ADD. BHAINSDEHI, BETUL	8989622222	348 09/12/2016	3,500	21-09-17	20-09-27	.	.	.	31-01-19	Working	Non Captive	130 30/06/2 017	21°48'21.24"N 21°48'27.44"N 21°48'31.12"N 21°48'27.74"N	78° 9'42.98"E 78° 9'43.27"E 78° 9'54.85"E 78° 9'55.50"E	Opencast

39	Stone(Gitti)	SMT SUNITA SAHU W/O SUBHASH SAHU ADD. BHAGAT SINGH WARD MULTAI TH. MULTAI DIST. BETUL	9425629178	1062 30/08/2017	1.277	20-09-17	19-09-27	-	-	10-01-18	Working	Non Captive	129 30/06/2 017	21°43'22.22"N 21°43'23.77"N 21°43'24.55"N 21°43'23.06"N	78°15'3.33"E 78°14'57.76"E 78°14'57.95"E 78°15'3.69"E	Opencast
40	Stone(Gitti)	SHRI ANANDRAO SARODE S/O BUDDU SARODE ADD. KAMTH TH. MULTAI DIST. BETUL	94244480688	6010 06/04/2018	2.905	16-05-18	15-05-28	-	-	03-07-18	Working	Non Captive	20 07/05/2 018	21°48'11.75"N 21°48'12.15"N 21°48'9.50"N 21°48'5.56"N	78°17'49.45"E 78°17'43.67"E 78°17'41.83"E 78°17'49.51"E	Opencast
41	Stone(Gitti)	SHRI AJABRAO DESHMUKH S/O BHURAJI DESHMUKH ADD. INDIRAGANDHI WARD MULTAI TEH. MULTAI DIST. BETUL	9425629169	1487 20/11/2017	1.000	30-05-18	29-05-28	-	-	02-06-20	Working	Non Captive	15 12/02/2 018	21°38'28.49"N 21°38'24.78"N 21°38'24.22"N 21°38'27.73"N	78°9'45.08"E 78°9'44.47"E 78°9'47.73"E 78°9'48.33"E	Opencast
42	Stone(Gitti)	SHRI RAJKUMAR SATPUTE S/O SHANKAR RAO SATPUTE ADD. AMRAVATI GHAT TEHSIL MULTAI DIST BETUL	9755732583	2312 28/12/2018	1.000	04-01-19	03-01-29	-	-	02-06-20	Working	Non Captive	38 01/10/2 018	21°38'33.72"N 21°38'32.34"N 21°38'33.80"N 21°38'34.54"N	78°10'10.75"E 78°10'21.29"E 78°10'21.46"E 78°10'10.89"E	Opencast
43	Stone(Gitti)	SHRI UMESH SAHU S/O DINKAR SAHU ADD. GAUTHANA RANIPUR ROAD BETUL	7869910111	227 24/01/2019	1.129	24-01-19	23-01-29	-	-	08-03-19	Working	Non Captive	33 24/09/2 018	21°50'53.39"N 21°50'51.52"N 21°50'53.39"N 21°50'55.06"N	78°9'41.55"E 78°9'49.81"E 78°9'50.03"E 78°9'43.83"E	Opencast
44	Stone(Gitti)	SMT PREMLATA AGRAWAL W/O MURARILAL AGRAWAL ADD. TILAK WARD MULTAI MULTAI DISTRICT BETUL	9425040271	1380 23/07/2018	3.000	30-01-19	29-01-29	-	-	08-03-18	Working	Non Captive	39 01/10/2 018	21°45'11.30"N 21°45'8.95"N 21°45'11.40"N 21°45'19.17"N	78°19'12.23"E 78°19'17.16"E 78°19'18.28"E 78°19'11.50"E	Opencast

45	Stone(Gitti)	SMT MANJU AGRAWAL S/O ASHOK KUMAR AGRAWAL ADD. TAPTI WARD STATION ROAD MULTAI TH. MULTAI DIST. BETUL	9425402088	1235 02/07/2019	1.000	12-06-20	11-06-30			25-07-20	Working	Non Captive	401 30/05/2 020	21°52'35.77"N 21°52'32.66"N 21°52'33.19"N 21°52'36.14"N	78°18'27.40"E 78°18'27.50"E 78°18'29.86"E 78°18'29.95"E	Opencast
46	Stone(Gitti)	SHRI BHOIRAJ BARDE S/O HEMRAJ BARDE ADD. GRAM GARWAHA TEHSIL MULTAI DIST. BETUL	9827267229	1638 05/09/2018	1.000	09-12-19	08-12-29			25-07-22	Working	Non Captive	2752 19/03/2 019	21°38'43.62"N 21°38'41.54"N 21°38'43.00"N 21°38'44.51"N	78°2'41.17"E 78°2'47.77"E 78°2'48.04"E 78°2'41.34"E	Opencast
47	Stone(Gitti)	SHRI MAHESH SARODE S/O SURESH SARODE ADD. GRAM DEVRI POST CHANDORA KHURD TEHSIL MULTAI DIST. BETUL	9039937989	1786 04/12/2020	1.000	16-09-21	15-09-31			02-11-21	Working	Non Captive	6651 18/02/2 021	21°48'1.23"N 21°47'57.92"N 21°47'57.20"N 21°48'0.83"N	78°16'57.94"E 78°16'57.79"E 78°17'1.07"E 78°17'1.19"E	Opencast
48	Stone(Gitti)	SHRI PRAVIN BARAI S/O MAHADEVRAO BARAI ADD. INDIRA GANDHI WARD MULTAI TH MULTAI DISTT BETUL MP	9425440648	1820 04/12/2020	1.000	14-12-10	13-12-20	13-12-25	14-12-20	02-11-21	Working	Non Captive	19 17/11/2 020	21°38'30.24"N 21°38'32.74"N 21°38'33.47"N 21°38'32.41"N	78°10'27.92"E 78°10'21.91"E 78°10'22.18"E 78°10'28.06"E	Opencast
49	Stone(Gitti)	SHRI RAJENDRA SINGH KILEDAR S/O CHANDRACHAD SINGH KILEDAR ADD. BAZAR CHOUK BHAINSEHI DIST. BETUL	9425002073	9867 27/05/2014	1.000	23-07-14	22-07-24			16-02-16	Working	Non Captive	2891 02/07/2 015	22°3'21.91"N 22°3'22.67"N 22°3'25.37"N 22°3'24.51"N	77°32'3.36"E 77°32'7.29"E 77°32'6.69"E 77°32'2.72"E	Opencast


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50	Stone(Gitti)	SHRI SUNIL KUMAR ARYA S/O SWAROOPCHANDRA ARYA ADD. NEAR BUS STAND CHICHOLI DISTT BETUL	9981284171	03/03/2014	348	1.981	13-08-14	12-08-24	-	-	09-12-15	Working	Non Captive	524 05/04/2 015	22° 3'6.13"N 22° 3'10.74"N 22° 3'14.07"N 22° 3'13.92"N 22° 3'10.58"N	77°38'50.63"E 77°38'47.92"E 77°38'48.47"E 77°38'52.04"E 77°38'52.88"E	Opencast
51	Stone(Gitti)	SHRI NITESH AWLEKER S/O VIJAY AWLEKER ADD. BAZAR CHOUK CHICHOLI TH.CHICHOLI DIST.BETUL	9993336529	27/11/2014	21645	2.000	25-02-15	24-02-25	-	-	20-06-16	Working	Non Captive	3192 06/07/2 015	22° 4'22.73"N 22° 4'17.14"N 22° 4'18.46"N 22° 4'23.74"N	77°32'18.73"E 77°32'17.89"E 77°32'22.84"E 77°32'22.36"E	Opencast
52	Stone(Gitti)	SHRI TEJBHADUR SHAH S/O BHARAT SHAH ADD. GRAM JINVANYA WARD 11 TEHSIL SIRALI DISTRICT HARDA	7610344197	24/04/2015	517	1.284	14-10-16	13-10-26	-	-	31-12-16	Working	Non Captive	11691 04/03/2 016	22°14'25.09"N 22°14'27.58"N 22°14'27.87"N 22°14'25.53"N	77°22'34.79"E 77°22'34.56"E 77°22'38.79"E 77°22'39.11"E	Opencast
53	Stone(Gitti)	SHRI NILESH BADUKALE S/O SURESHRAO BADUKALE ADD. BRAMANWADA TEHSIL CHADURBAZAR DISTT AMRAVATI	9860076442	20/10/2014	628	1.250	11-06-16	10-06-26	-	-	29-10-16	Working	Non Captive	10960 01/02/2 016	21°22'10.73"N 21°22'9.80"N 21°22'6.59"N 21°22'7.29"N	77°43'48.11"E 77°43'44.47"E 77°43'44.70"E 77°43'48.46"E	Opencast
54	Stone(Gitti)	SHRI RAJENDRA SINGH KILEDAR S/O CHANDRACHAD SINGH KILEDAR ADD. BAZAR CHOUK BHAINSEHI DIST.BETUL	9425002073	10/07/2017	862	1.500	20-09-17	19-09-27	-	-	31-01-19	Working	Non Captive	131 30/06/2 017	21°36'11.55"N 21°36'5.20"N 21°36'4.69"N 21°36'11.02"N	77°51'5.60"E 77°51'3.74"E 77°51'6.05"E 77°51'7.85"E	Opencast

55	Stone(Gitti)	SHRI BHIMA BARASKAR-SHRI BALDEO BARASKAR ADD. GRAM DHANORI TEHSIL ATHNER DISTRICT BETUL	7354060569	1180 23/09/2017	1.000	05-09-18	04-09-28				08-03-19	Working	Non Captive	12 12/08/2 018	21°41'59.27"N 21°41'57.26"N 21°41'58.38"N 21°41'59.79"N	77°56'27.88"E 77°56'32.99"E 77°56'34.41"E 77°56'30.47"E	Opencast
56	Stone(Gitti)	SHRI VIJAY KAWADKAR S/O SHESHRAO KAWADKAR ADD. VIKASH NAGAR ATHNER TEHSIL ATHNER DIST. BETUL	9770462925	1363 21/09/2020	1.000	06-04-21	05-04-31				14-09-21	Working	Non Captive	6798 19/02/2 021	21°36'12.78"N 21°36'9.67"N 21°36'8.72"N 21°36'11.85"N	77°52'5.08"E 77°52'4.14"E 77°52'7.50"E 77°52'8.36"E	Opencast
57	Stone(Gitti)	SHRI ARUN TIWARI S/O CHANDRA GOPAL TIWARI ADD. SHAHPUR TEHSIL SHAHPUR DIST BETUL	9424422972	536 29/09/2014	1.214	06-12-16	05-12-26				28-02-17	Working	Non Captive	68 05/10/2 016	22°10'50.60"N 22°10'44.67"N 22°10'44.61"N 22°10'50.07"N	77°55'31.41"E 77°55'29.89"E 77°55'31.17"E 77°55'34.22"E	Opencast
58	Stone(Gitti)	SHRI SANTOSH KUMAR JAIN S/O MUNNA LAL JAIN ADD. MANGALMAY VILAS COLONY KULAMDI ROAD HOSHANGABAD	9425408900	1427 09/11/2017	0.900	10-10-08	09-10-18	10-10-18	09-10-28		17-07-19	Working	Non Captive	764 22/05/2 019	22°17'45.15"N 22°17'41.33"N 22°17'42.93"N 22°17'47.49"N	77°48'55.60"E 77°49'2.23"E 77°49'3.31"E 77°48'58.53"E	Opencast
59	Stone(Gitti)	SMT SANDHYA SINGH CHOUHAN W/O DHARMENDRA SINGH CHOUHAN ADD. WORD NO.3 BHAINSDEHI TEHSIL BHAINSDEHI DIST. BET	9993034923	10944-45 10/06/2014	0.750	01-07-03	30-06-13	01-07-13	30-06-23		01-07-13	Working	Non Captive	563 27/04/2 015	21°35'39.33"N 21°35'39.37"N 21°35'42.09"N 21°35'42.13"N	77°36'10.85"E 77°36'15.09"E 77°36'12.94"E 77°36'14.85"E	Opencast

60	Stone(Gitti)	SMT PRAMILA DHADSE W/O SATISH DHADSE ADD. CIVIL LINE BHINSDEHI TH. BHAINSDEHI DIST. BETUL	9098017722	768 23/09/2013	1.000	13-08-14	12-08-24				28-05-15	Working	Non Captive	3192 19/03/2 015	21°37'27.16"N 21°37'23.07"N 21°37'22.76"N 21°37'26.70"N	77°41'30.22"E 77°41'29.33"E 77°41'32.03"E 77°41'32.70"E	Opencast
61	Stone(Gitti)	SHRI KRISHNA LOKHANDE S/O RAMAJI LOKHANDE ADD. GHOGAMA TH BHAINSDEHI DIST BETUL	8120989336	241 26/02/2015	1.060	06-11-15	05-11-25				20-10-16	Working	Non Captive	5757 24/09/2 015	21°34'21.18"N 21°34'20.32"N 21°34'21.54"N 21°34'23.14"N	77°43'6.47"E 77°43'12.67"E 77°43'13.03"E 77°43'7.27"E	Opencast
62	Stone(Gitti)	SHRI MANGLESH JAISWAL S/O RAMKISHORE BALBHADRALAL JAISWAL ADD. TILAK CHOUK RAMKISHORE JAISWAL MARG PARATWADA MH	9422156187	4978 01/04/2016	2.000	18-05-16	17-05-26				21-10-16	Working	Non Captive	47 29/07/2 016	21°22'44.92"N 21°22'42.00"N 21°22'37.98"N 21°22'40.60"N	77°34'15.07"E 77°34'11.53"E 77°34'14.03"E 77°34'17.55"E	Opencast
63	Stone(Gitti)	SHRI SHAILESH SINGH SHIKARWAR S/O VIJENDRA SINGH SHIKARWAR ADD. NANDI GANGHOLI TEHSIL JOURA DIST. MORENA	9826247769	4176 09/01/2017	1.500	25-03-17	24-03-27				11-12-17	Working	Non Captive	127 30/06/2 017	21°44'2.44"N 21°43'56.37"N 21°43'57.83"N 21°44'2.88"N	77°43'31.41"E 77°43'33.76"E 77°43'36.85"E 77°43'32.61"E	Opencast
64	Stone(Gitti)	SHRI RAJESH SINGH THAKUR S/O CHANDRAMOHAN SINGH THAKUR ADD. DEVI MOHLLA BHAINSDEHI DIST. BETUL	9977158717	3046-48 22/02/2017	1.100	23-03-17	22-03-27				21-06-17	Working	Non Captive	114 01/04/2 017	21°35'47.36"N 21°35'43.15"N 21°35'42.98"N 21°35'45.38"N	77°36'12.93"E 77°36'12.68"E 77°36'16.28"E 77°36'16.18"E	Opencast

65	Stone(Gitti)	SHRI SACHIN KUMAR DHOTE S/O VASUDEV DHOTE ADD. GRAM BALNER TEHSIL BHAINSEDEHI DISTRICT BETUL	9406537698	483 18/04/2017	1.423	03-05-17	02-05-27			12-10-17	Working	Non Captive	112 01/04/2 017	21°39'44.84"N 21°39'41.81"N 21°39'41.70"N 21°39'44.63"N	77°44'34.26"E 77°44'34.37"E 77°44'39.76"E 77°44'39.02"E	Opencast
66	Stone(Gitti)	SHRI SAKAL DHURVE S/O CHAITU DHURVE ADD. DWARKA NAGAR BADORA BETUL	9584914325	1063 30/08/2017	1.500	20-09-17	19-09-27			08-02-18	Working	Non Captive	133 30/06/2 017	21°54'46.96"N 21°54'43.14"N 21°54'43.17"N 21°54'46.96"N	77°29'50.68"E 77°29'50.56"E 77°29'54.80"E 77°29'54.79"E	Opencast
67	Stone(Gitti)	SHRI DILIP KUMAR ARYA S/O RAMDIN ARYA ADD. HIDALI, BHIMPUR TAH BHAINSEDEHI, DISTT BETUL. M.P.	9425304248	959 25/05/2018	1.000	28-04-08	27-04-18	27-04-28		07-01-09	Working	Non Captive	21 17/05/2 016	21°55'41.15"N 21°55'38.08"N 21°55'38.08"N 21°55'38.22"N	77°34'34.70"E 77°34'37.62"E 77°34'37.62"E 77°34'34.22"E	Opencast
68	Stone(Gitti)	SHRI DILIP KUMAR ARYA S/O RAMDIN ARYA ADD. HIDALI, BHIMPUR TAH BHAINSEDEHI, DISTT BETUL. M.P.	9425304248	960 25/05/2018	2.000	25-05-18	24-05-28			08-03-19	Working	Non Captive	21 07/05/2 018	21°55'40.99"N 21°55'37.32"N 21°55'37.23"N 21°55'40.94"N	77°34'30.84"E 77°34'30.01"E 77°34'33.61"E 77°34'34.32"E	Opencast
69	Stone(Gitti)	SHRI BHUPENDRA SAWARKAR S/O HARI BHAI SAWARKAR ADD. TRIVENI WARD BHAINSEDEHI TEHSIL BHAINSEDEHI DISTT. BETUL	9893474762	1197 29/06/2018	1.112	30-06-18	29-06-28			11-03-19	Working	Non Captive	17 07/05/2 018	21°37'32.14"N 21°37'31.66"N 21°37'33.35"N 21°37'35.05"N	77°41'40.87"E 77°41'45.05"E 77°41'45.41"E 77°41'41.48"E	Opencast
70	Stone(Gitti)	SMT PRAMILA DHADSE W/O SATISH DHADSE ADD. CIVIL LINE BHAINSEDEHI TH.	9098017722	1594 29/08/2018	1.000	29-08-18	28-08-28			21-09-20	Working	Non Captive	22 07/05/2 018	21°37'26.41"N 21°37'30.83"N 21°37'30.61"N 21°37'26.19"N	77°41'27.59"E 77°41'28.66"E 77°41'30.93"E 77°41'29.96"E	Opencast

71	Stone(Gitti)	BHAINSEDEHI DIST. BETUL	8120989336	1661	03/11/2020	2.000	06-11-20	05-11-30						09-06-20	Working	Non Captive	10 12/02/2 018	21°37'29.90"N 21°37'37.40"N 21°37'36.85"N 21°37'29.88"N	77°41'32.07"E 77°41'33.11"E 77°41'37.83"E 77°41'36.39"E	Opencast
72	Stone(Gitti)	BHAINSEDEHI DIST. BETUL	8208933127	733	05/06/2020	1.000	18-06-20	17-06-30						25-07-20	Working	Non Captive	477 02/06/2 020	21°22'31.40"N 21°22'30.10"N 21°22'29.06"N 21°22'30.30"N	77°34'35.56"E 77°34'26.98"E 77°34'27.06"E 77°34'35.69"E	Opencast
73	Stone(Gitti)	BHAINSEDEHI DIST. BETUL	8989150614	7308-09	06/08/2020	1.582	04-11-20	03-11-30						17-09-21	Working	Non Captive	2482 31/08/2 020	21°52'46.81"N 21°52'41.86"N 21°52'43.25"N 21°52'46.81"N	77°28'0.50"E 77°28'2.93"E 77°28'7.15"E 77°28'4.56"E	Opencast
74	Stone(Gitti)	BHAINSEDEHI DIST. BETUL	8120989336	1661	03/11/2020	2.000	06-11-20	05-11-30						06-09-21	Working	Non Captive	4343 27/10/2 020	21°34'27.61"N 21°34'23.67"N 21°34'22.68"N 21°34'27.70"N	77°43'8.95"E 77°43'9.03"E 77°43'13.34"E 77°43'14.22"E	Opencast

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75	Stone(Gitti)	SMT ARTI JAISWAL W/O SACHIN JAISWAL ADD. SUBHASH WARD NO.8 BHAINSEHI TH.BHAINSEHI DIST.BETUL	9977460850	520 23/03/2018	1.000	23-03-18	22-03-28				21-06-21	Working	Non Captive	141 14/11/2 017	21°42'42.82"N 21°42'35.49"N 21°42'35.43"N 21°42'42.82"N	77°38'55.42"E 77°38'55.06"E 77°38'56.47"E 77°38'56.81"E	Opencast
76	Murum	SHRI NILESH BADUKALE S/O SURESHRAO BADUKALE ADD. BRAMANWADA TEHSIL CHADURBAZAR DISTT AMRAVATI	9860076442	4357 16/09/2021	1.000	27-09-21	26-09-31				11-11-21	Working	Non Captive	782 19/05/2 021	21°21'53.12"N 21°21'49.06"N 21°21'49.14"N 21°21'53.28"N	77°42'59.91"E 77°42'59.56"E 77°43'2.30"E 77°43'2.60"E	Opencast
77	Stone(Gitti)	SMT SUPRIYA AGRAWAL W/O ASHISH AGRAWAL ADD. DURGA CHOUK GHORADONGARI TH.GHORADONGARI DIST.BETUL	9424808080	14940-41 14/12/2020	1.000	15-12-09	14-12-19	14-12-29	15-12-19	14-12-29	13-12-10	Working	Non Captive	34 31/05/2 016	22°7'44.96"N 22°7'44.69"N 22°7'47.52"N 22°7'47.35"N	77°58'45.69"E 77°58'49.50"E 77°58'49.74"E 77°58'45.70"E	Opencast
78	Stone(Gitti)	SMT PRAGYA KAUL W/O ANSHUL KAUL ADD. MAHAVEER WARD TIKARI BETUL	6265585514	1923 22/12/2020	1.000	19-01-21	18-01-31				31-05-22	Working	Non Captive	37 01/10/2 018	21°35'20.12"N 21°35'17.72"N 21°35'20.09"N 21°35'21.22"N	77°53'20.47"E 77°53'26.24"E 77°53'26.90"E 77°53'20.87"E	Opencast
79	Stone(Gitti)	SHRI AMIT CHANDAK S/O SHYAMSUNDER CHANDAK ADD. ACHALPUR DIST.AMRAVATI	9422156530	13080-81 17/11/2020	2.000	27-04-21	26-04-31					Non Working	Non Captive	6294 12/02/2 021	21°22'15.17"N 21°22'24.79"N 21°22'24.03"N 21°22'15.15"N	77°44'28.03"E 77°44'32.69"E 77°44'35.12"E 77°44'29.28"E	Opencast

80	Stone(Gitti)	SHRI KULVANT SINGH KHANUJA S/O JOGINDER SINGH KHANUJA ADD. BAGRATAVATEH. BABAI DIST. HOSHANGABAD	9111018412	17065-67 06/09/2017	1.000	14-03-05	13-03-15	14-03-15	13-03-25	14-03-19	Non Working	Non Captive	25 07/05/2 018	22°19'15.15"N 22°19'17.98"N 22°19'18.10"N 22°19'15.45"N	77°50'52.84"E 77°50'51.57"E 77°50'55.61"E 77°50'56.45"E	Opencast
81	Stone(Gitti)	SHRI BASTIRAM LAVISKAR S/O MANDAR LAVISKAR ADD. BANJARIDHAL POST DHAPADA DISTRICT BETUL	9424461641	618 26/04/2016	1.050	25-07-16	24-07-26			11-10-17	Non Working	Non Captive	49 29/07/2 016	22°16'31.76"N 22°16'34.91"N 22°16'34.58"N 22°16'31.76"N	77°37'34.34"E 77°37'34.64"E 77°37'37.75"E 77°37'37.93"E	Opencast
82	Stone(Gitti)	SHRI DEVENDRA MALVIYA S/O L.L. MALVIYA ADD. SAGAR APARTMENT INDORE	9806060699	863-64 15/01/2021	2.906	16-09-21	15-09-31			31-05-22	Non Working	Non Captive	3635 14/10/2 020	21°49'27.56"N 21°49'33.98"N 21°49'34.35"N 21°49'28.92"N	78°12'37.26"E 78°12'38.35"E 78°12'42.89"E 78°12'43.81"E	Opencast
83	Stone(Gitti)	SHRI SUNIL SHARMA S/O BALKISHAN SHARMA ADD. GANDHI WARD BETUL DISTRICT BETUL	9425002011	765 13/06/2017	1.000	30-08-17	29-08-27				Non Working	Non Captive	81 21/11/2 016	21°45'58.17"N 21°45'55.59"N 21°45'56.73"N 21°46'0.00"N 21°46'0.05"N	77°52'33.56"E 77°52'35.88"E 77°52'37.26"E 77°52'37.46"E 77°52'34.85"E	Opencast
84	Stone(Gitti)	MS SHRI TIRUPATI BALAJI ASSOCIATES PRO. ADITYA AWASTHI ADD. KOTHIBAZAR BETUL DIST. BETUL	9753808024	1552 29/11/2017	2.000	28-02-18	27-02-28			31-03-22	Non Working	Non Captive	137 14/11/2 017	21°51'16.32"N 21°51'19.98"N 21°51'19.84"N 21°51'15.53"N	78°1'15.28"E 78°1'16.01"E 78°1'21.17"E 78°1'20.68"E	Opencast
85	Stone(Gitti)	MS MAA KALI STONE CRUSHER PRO. GAURAV RATHOR ADD. BETUL GANJ BETUL	9424000585	1259 04/07/2019	1.700	29-11-19	28-11-29			18-07-20	Non Working	Non Captive	1454 02/07/2 019	21°47'50.63"N 21°47'54.57"N 21°47'50.77"N 21°47'49.25"N	77°50'48.67"E 77°50'57.65"E 77°50'57.00"E 77°50'48.80"E	Opencast

86	Stone(Gitti)	SHRI UDAYRAM SINGH RATHOD S/O GOPAL SINGH RATHOD ADD. SADAR BETUL DIST.BETUL	9685542849	1256 22/09/2007	0.665	30-10-07	29-10-17	30-10-17	29-10-27	30-11-07	Non Working	Non Captive	23 17/05/2 016	21°51'16.36"N 21°51'14.45"N 21°51'17.22"N 21°51'18.11"N	78° 2'45.22"E 78° 2'47.79"E 78° 2'48.53"E 78° 2'47.23"E	Opencast
87	Stone(Gitti)	SMT SUMAN SAHU W/O DINKAR SAHU ADD. MQ607 SHOBHAPUR COLONY DIST.BETUL	7689910111	2325-26 28/01/2014	1.000	27-03-14	26-03-24			23-01-15	Non Working	Non Captive	941 06/06/2 013	21°51'29.86"N 21°51'29.08"N 21°51'30.37"N 21°51'31.36"N	78° 9'1.56"E 78° 9'10.75"E 78° 9'11.09"E 78° 9'2.71"E	Opencast
88	Stone(Gitti)	SHRI VISHWAPAL SINGH RAGHUWANSHI S/O NATTHU SINGH RAGHUWANSHI ADD. SONDIYA PO.RIDHORA TH.MULTAI DIST.BETUL	9425383008	4446-49 22/03/2016	1.000	03-07-16	02-07-26			18-08-22	Non Working	Non Captive	563 27/04/2 015	21°51'28.45"N 21°51'25.83"N 21°51'28.17"N 21°51'30.53"N	78°27'24.45"E 78°27'28.45"E 78°27'26.14"E 78°27'29.87"E	Opencast
89	Stone(Gitti)	MS TIRUPATI BUILDCON PVT LTD DIRECTOR PADAM KUMAR SINGHANIA ADD. NEAR RAILWAY STATION BUDAR DISTRICT SHAHDOL	8717875555	1872 16/12/2016	1.509	15-01-17	14-01-27			03-07-18	Non Working	Non Captive	90 21/11/2 016	21°38'20.53"N 21°38'25.40"N 21°38'25.62"N 21°38'20.62"N	78° 9'57.48"E 78° 9'57.37"E 78°10'0.74"E 78°10'0.86"E	Opencast
90	Stone(Gitti)	SHRI SATYENDRA MOHAN SAXENA S/O SHYAM LAL SAXENA ADD.BHAGAT SINGH WARD MULTAI TH.MULTAI DIST.BETUL	9424396988	157 12/01/2012	1.000	20-03-09	19-03-19	20-03-19	19-03-29	20-03-09	Non Working	Non Captive	-	21°42'6.73"N 21°42'0.70"N 21°42'0.85"N 21°42'7.12"N	78°16'51.72"E 78°16'52.80"E 78°16'54.51"E 78°16'53.65"E	Opencast

91	Stone(Gitti)	SHRI JITENDRA ARYA S/O BABULAL ARYA ADD. CHICHOLI DISTRICT BETUL	9425005594	4841-44 30/03/2016	2,000	17-07-16	16-07-26				Non Working	Non Captive	385 22/04/2 015	22° 3' 18.75" N 22° 3' 19.25" N 22° 3' 20.69" N 22° 3' 20.23" N	77° 38' 26.60" E 77° 38' 39.63" E 77° 38' 39.48" E 77° 38' 26.63" E	Opencast
92	Stone(Gitti)	SHRI ALTAJ KHAN S/O YUNUS KHAN ADD. MANPURA HARDA DISTRICT HARDA	9826099527	2044 25/10/2010	1,000	29-10-10	28-10-20				Non Working	Non Captive	144 14/11/2 017	22° 14' 23.41" N 22° 14' 20.54" N 22° 14' 20.76" N 22° 14' 24.01" N	77° 22' 35.48" E 77° 22' 36.25" E 77° 22' 39.84" E 77° 22' 40.65" E	Opencast
93	Stone(Gitti)	SHRI SHIVENDRA SINGH KILEDAR S/O DURGA CHARAN KILEDAR ADD. BAZAR CHOUK BHAINSEDEHI DIST. BETUL	9425002373	19188-90 09/12/2016	2,000	08-02-17	07-02-27				Non Working	Non Captive	113 01/04/2 017	21° 22' 23.27" N 21° 22' 19.28" N 21° 22' 18.75" N 21° 22' 20.26" N 21° 22' 22.92" N	77° 43' 56.75" E 77° 43' 56.69" E 77° 44' 1.94" E 77° 44' 2.59" E 77° 44' 0.93" E	Opencast
94	Stone(Gitti)	SHRI JAGDISH AGRAWAL ADD. BHAURA TEHSIL SHAHPUR DIST. BETUL	9425041824	667 24/04/2012	1,000	17-09-13	16-09-23				Non Working	Non Captive	836 31/05/2 013	22° 17' 25.62" N 22° 17' 26.34" N 22° 17' 23.89" N 22° 17' 24.03" N 22° 17' 25.95" N	77° 49' 21.85" E 77° 49' 19.24" E 77° 49' 16.66" E 77° 49' 17.47" E 77° 49' 22.39" E	Opencast
95	Stone(Gitti)	SMT FULEY JAWARKAR W/O SURAJULAL JAWARKAR ADD. PAGADORI TEHSIL BHAINSEDEHI DIST. BETUL	9479519677	1393 24/07/2018	1,969	14-08-18	13-08-28				Non Working	Non Captive	23 07/05/2 018	21° 30' 7.02" N 21° 30' 7.27" N 21° 30' 12.35" N 21° 30' 11.64" N	77° 34' 15.95" E 77° 34' 20.75" E 77° 34' 20.07" E 77° 34' 15.60" E	Opencast
96	Stone(Gitti)	SHRI RAJESH RAO S/O SURESH RAO ADD. KOTHIBAZAR HOSHANGABAD DIST. HOSHANGABAD	7999613991	4356 16/09/2021	1,214	12-04-22	11-04-32				Non Working	Non Captive	7329 16/03/2 021	22° 18' 17.11" N 22° 18' 11.00" N 22° 18' 10.57" N 22° 18' 16.25" N	77° 50' 36.49" E 77° 50' 35.79" E 77° 50' 37.30" E 77° 50' 39.33" E	Opencast

Details of the Quarry leases (31 minor minerals) in the district:

क्र०	पट्टेदार का नाम	खनिज का नाम	स्वीकृत खसरा	रकबा (हेक्टेयर)	ग्राम	तहसील	पट्टे की अवधि	कार्यशील / अकार्यशील
1	श्रीमती शिखा उपाध्याय	सफेद मिट्टी	21 / 1	39.837	पलासखेड़ी	भैसदेही	22.03.2011 से 21.03.2031	शिथिल

(Handwritten Signature)

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

CHAPTER -10

10. Details of Royalty or Revenue Received in Last Three Years

Major Minerals

S.No	Mineral	Royalty or Revenue Received (INR)		
		2019-20	2020-21	2021-22
1	Coal	470149110/-	410809554/-	359106173/-

Minor Minerals

S.No	Mineral	Royalty or Revenue Received (INR)		
		2019-20	2020-21	2021-22
1	Gitti	32717026/-	43621814/-	51210097/-
2	Stone	16389800/-	5874612/-	23568118/-
3	Murum	148341/-	387500/-	1233449/-


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

CHAPTER -11

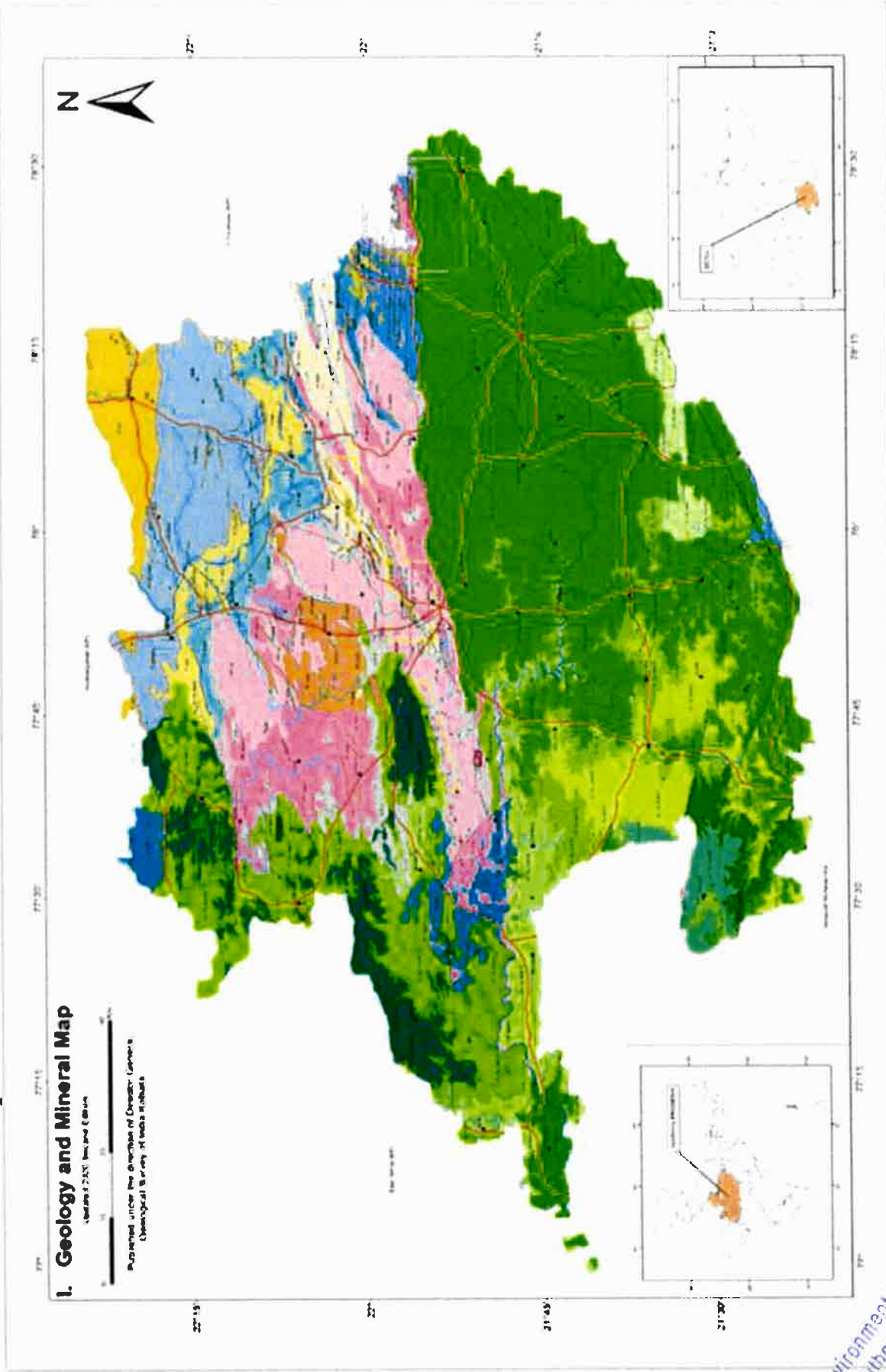
11. Details of Production of Minor Mineral in last three years

Sr. No	Mineral	Production (in ton)		
		2019-20	2020-21	2021-22
1	Gitti	341548	444860	519926.9
2	Boulder	500	0	180
3	Stone	4857	37956	105930
4	Murum	1150	5772	14188


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

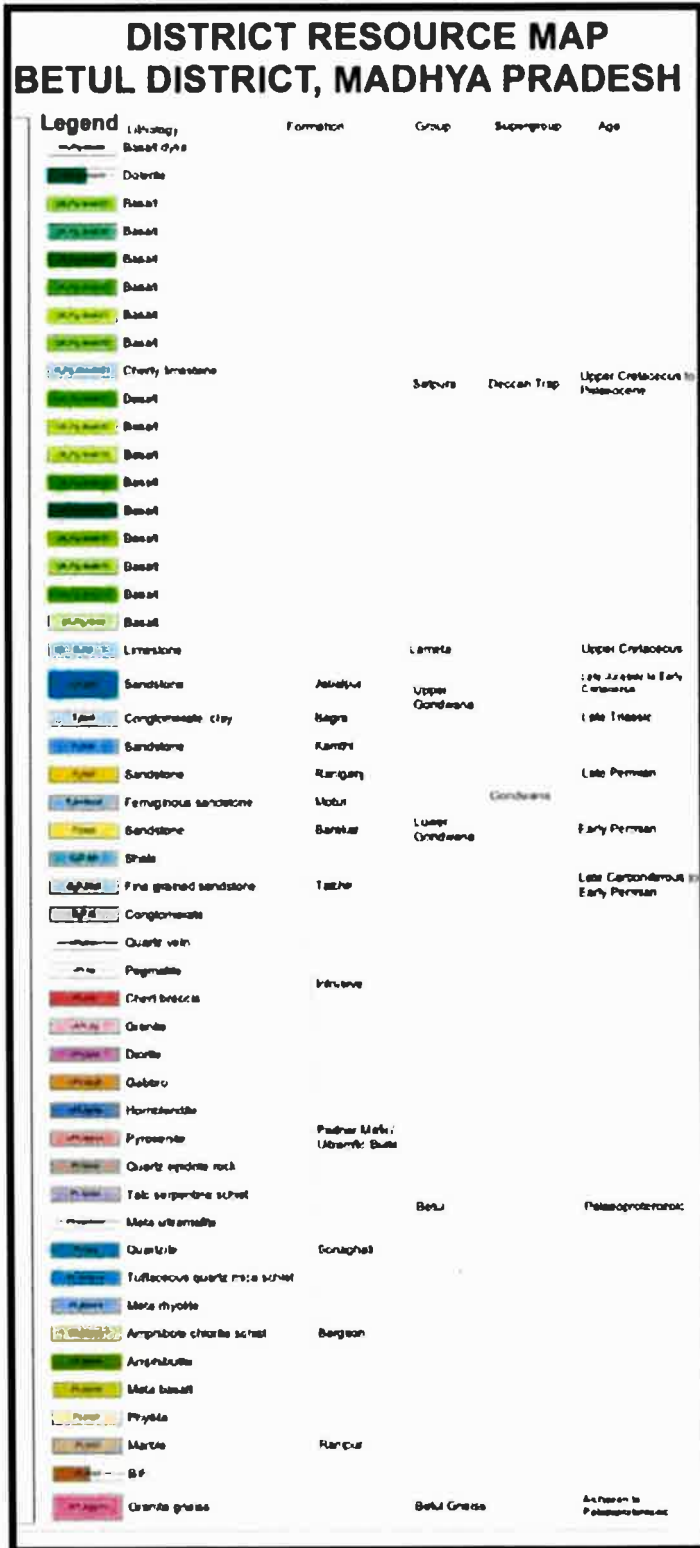
CHAPTER -12

12. Mineral Map of the district



Manoj Kumar
Joint Level Environment Impact
Assessment Authority, M.P.
Dehra
Dehra
Dehra
Dehra

Figure-9 Geological Map Index



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

CHAPTER -13

13. List of Letter of Intent (LOI) Holders in the District along with its validity

SN	Name of the Mineral	Name of the Lessee	Address and Contact No. of Intent Holder	Letter of Intent Grant Order No & date	Area of Mining Lease to be allotted Hect.	Validity of LOI	Use (Captive/Non Captive)	Location of Mining Lease (Latitude/Longitude)
1	2	3	4	5	6	7	8	9
1	Gitti	श्रीमति प्रेमलता पति मुरारीलाल अग्रवाल	तिलक वाई मुलताई तहसील मुलताई जिला बैतूल 9425040271	Order No. 797 Date 19/05/2022	1.522	6 Month	Non Captive	21.753412"N 78.316215"E
2	Gitti	श्री दीपक उपाध्याय पिता श्री आर पी उपाध्याय	भोरा तहसील शाहपुर जिला बैतूल 9424416302	Order No. 3347-48 Date 11/03/2022	1.000	6 Month	Non Captive	22°17'22.25"N 77°49'24.94"E
3	Gitti	श्री पूर्वाश तिवारी पिता श्री प्रशांत तिवारी	कालापाठा बैतूल तहसील व जिला बैतूल 9425002034	Order No. 5860-61 Date 28/04/2022	1.000	6 Month	Non Captive	21°53'2.34"N 78°0'29.36"E
4	Gitti	श्री विजय रघुवंशी पिता श्री कल्लूसिंह रघुवंशी	कालापाठा बैतूल तहसील व जिला बैतूल 9425005395	Order No. 239 Date 14/02/2022	1.950	6 Month	Non Captive	21°57'19"N 77°48'21"E
5	Gitti	श्रीमति मीराबोडखे पति श्री पंजाबराव बोडखे	ताप्ती नगर कामथ तहसील मुलताई जिला बैतूल 9424453221	Order No. 4729-30 Date 08/04/2022	1.000	6 Month	Non Captive	21°44'54.51"N 78°18'32.31"E
6	Gitti	श्री देवधर इंगले पिता श्री पंजाबराव इंगले	बारस्कर कालोनी महावीर वाई टिकारी बैतूल तहसील व जिला बैतूल 9424430209	प्रक्रियाधीन	2.000	6 Month	Non Captive	21°85'59.49"N 78°04'73.27"E

7	Gitti	श्री आनन्दराव सरोदे पिता श्री बुद्धु सरोदे	कामथ तहसील मुलताई जिला बैतूल 9424480688	प्रक्रियाधीन	1.000	6 Month	Non Captive	21°48'15.43"N 78°17'30.68"E
8	Gitti	श्री शैलेश पानकर श्री सुधाकरराव पानकर	निवासी चन्द्रशेखर वार्ड सदर बैतूल जिला बैतूल 9826257451	प्रक्रियाधीन	2.000	6 Month	Non Captive	21°49'19.28"N 77°57'18.73"E
9	Gitti	संजीवनी स्टोन केशर प्रो डॉ योगेश पंडागरे	निवासी चन्द्रशेखर वार्ड सदर बैतूल जिला बैतूल 9425628888	प्रक्रियाधीन	3.900	6 Month	Non Captive	21°84'05.74"N 78°05'14.65"E
10	Gitti	श्री संतोष बुडुकले श्री सुरेशराव बुडुकले	निवासी ब्राह्मणवाडा तहसील चांदूरबाजार जिला अमरावती 9860076442	प्रक्रियाधीन	1.580	6 Month	Non Captive	21°22'17.76"N 77°44'30.79"E
11	Gitti	श्री अखिलेश सिंह रंजीत सिंह	निवासी अग्रवाल नगर कांडली परतवाडा जिला अमरावती 8208933127	प्रक्रियाधीन	1.580	6 Month	Non Captive	21°22'17.76"N 77°44'30.79"E

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LIST OF TEMPORARY PERMITS IN THE DISTRICT

Sr. NO.	Name of minerals	Name of LOI Holders	Address and Contact Number of LOI Holders	LOI Grant Order No. & Date	Area of Mining lease (in HA)	Validity of LOI	Use(Captive/ Non Captive)	Location of Mining Lease (Latitude / Longitude)
1	Murum	Bansal Pathways Betul - Chicholi Pvt. Ltd	Gadha Betul (MP)	2582 Date 21-09-2022	3.82	01 Year	Captive	N22°00'42" E77°38'14" N22°00'40" E77°38'07" N22°00'38" E77°38'15" N22°00'45" E77°38'07"
2	Murum	Bansal Pathways Betul - Chicholi Pvt. Ltd	Gadha Betul (MP)	2580 Date 21-09-2022	2.274	01 Year	Captive	N22°03'27" E77°37'54" N22°03'29" E77°37'55" N22°03'23" E77°38'07" N22°03'26" E77°38'07"
3	Murum	Bansal Pathways Betul - Chicholi Pvt. Ltd	Gadha Betul (MP)	2581 Date 21-09-2022	2.553	01 Year	Captive	N22°03'23" E77°38'07" N22°03'26" E77°38'07" N22°03'26" E77°38'15" N22°03'22" E77°38'16"
4	Murum	Bansal Pathways Betul - Chicholi Pvt. Ltd	Gadha Betul (MP)	2582 Date 21-09-2022	3.666	01 Year	Captive	N22°00'38" E77°36'08" N22°00'32" E77°36'12" N22°00'40" E77°36'12" N22°00'32" E77°36'08"
5	Murum	Bansal Pathways Betul - Chicholi Pvt. Ltd	Gadha Betul (MP)	5693 Date 14-09-2022	1.005	01 Year	Captive	N21° 56'24" E77°40'33" N21°56'21" E77°40'34" N21°56'22" E77°40'36" N21°56'24" E77°40'37"
6	Stone	Bansal Pathways Betul - Chicholi Pvt. Ltd	Gadha Betul (MP)		3.175	01 Year	Captive	N21°55'04" E77°44'21" N21°55'01" E77°44'25" N21°55'02" E77°44'29" N21°55'04" E77°44'29"
7	Stone	Ms Jeet Asia Construction pvt ltd	Gurgaon Haryana (AT-Chicholi District Betul) (M.P.)	-	1.467	Applicable	Captive	22°45'48.88"N 77°30'34.65"E 22°45'51.19"N 77°30'34.15"E 22°45'51.28"N 77°30'26.60"E 22°45'49.91"N 77°30'33.18"E

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CHAPTER -14

14. Total Mineral Reserve available in the district

Mineral Wealth:

Betul district is well known for its various types of economic mineral deposits/occurrence and 21 types of economic minerals have been reported so far. Coal deposits from barakar formation of gondwana supergroup are found around pathakhera, Gurgunda, Brahmanwara, sonda, mardanpur, shahpur and dulhara areas. Copper associated with acid volcanic rock is reported at Kherli Bajar, Bhawra, Tekra, Banskhapa-pipariya. Tungsten in the form of specks and small veinlets in calc-silicate rock is reported at chunaloma, chiklar, tara, malajpur, Garnet reported at Bisighat, Bhaldhei, bijadheihi and kesiya. chunabhura and in betul nala section. graphite from graphite schist and phyllite is reported at tikari, Maramjhiri, chiklar, gauthana, bhopali, janawani, and golighat. Mica in the form of flakes and books from pegmatite veins is found at khundepapariya, kachnar, bisighat, bhaldehi, and temni. Ochre in the form of patches in mica schist is reported at 1 km north of bisighat and 1 km west of thufama. the scattered occurrence of calcite veins in deccan trap are reported around jhallar, bhakurdhana, ankwari, mandi khurd, ghoradongri, maramjhiri, bhopali, karanji, kolhudhana and nimpani.

Other economic minerals reported are magnetite (iron ore) at amdhana in kamalpur hill and ankawari, asbestos (acitinolite - tremolite) at badgaon, Beyrl at temni and chunaloma, steatite (talc) at mardwani; tourmaline at 1.2 km SW of temni, zeolite at khamla, gudgeon and masod. Limestone about 4 to 6 m thick band in lameta group is reported at panraghat.


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CHAPTER -15

15. Quality /Grade of Mineral available in the district

Stone mineral can be used as boulders of different sizes for dam construction, embankment works etc. After crushing into different sizes, it can be used in construction and road projects. Fine grained compact basalt is available in the district so that Quality of stone available in Batul district is building grade stone confirming standards.

SN	Mineral	Use/grade
1	Giiti, Stone, Murum	Road maintainance, Construction & Earthwork.


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CHAPTER -16

16. Use of Minerals

Gitti/Building Stone:

Aggregates – stone for its strong physical properties – crushed and sorted into various sizes for use in concrete, coated with bitumen to make asphalt or used 'dry' as bulk fill in construction, Mostly used in roads, concrete and building products.

Murum:

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

Sand

Sand is not for manufacturing concrete, but it is the ideal material for asphalt mix. It is commonly used to fix and level roads, and lay bedding for a variety of uses. This is in contrast with our three other main construction sand products, which are mainly used for building applications.


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CHAPTER -17

17. Demand and Supply of the Mineral in the last three years

Detail of Demand and Supply of minor minerals in the financial year 2019-20

Sr. No	Mineral	Production and Dispatch for the Year 2019-20	
		Production (in ton)	Dispatch (in ton)
1	Gitti	341548	341548
2	Boulder	500	500
3	Stone	4857	4857
4	Murum	1150	1150

Detail of Demand and Supply of minor minerals in the financial year 2020-21

Sr. No	Mineral	Production and Dispatch for the Year 2020-21	
		Production (in ton)	Dispatch (in ton)
1	Gitti	444860	444860
2	Boulder	0	0
3	Stone	37956	37956
4	Murum	5772	5772

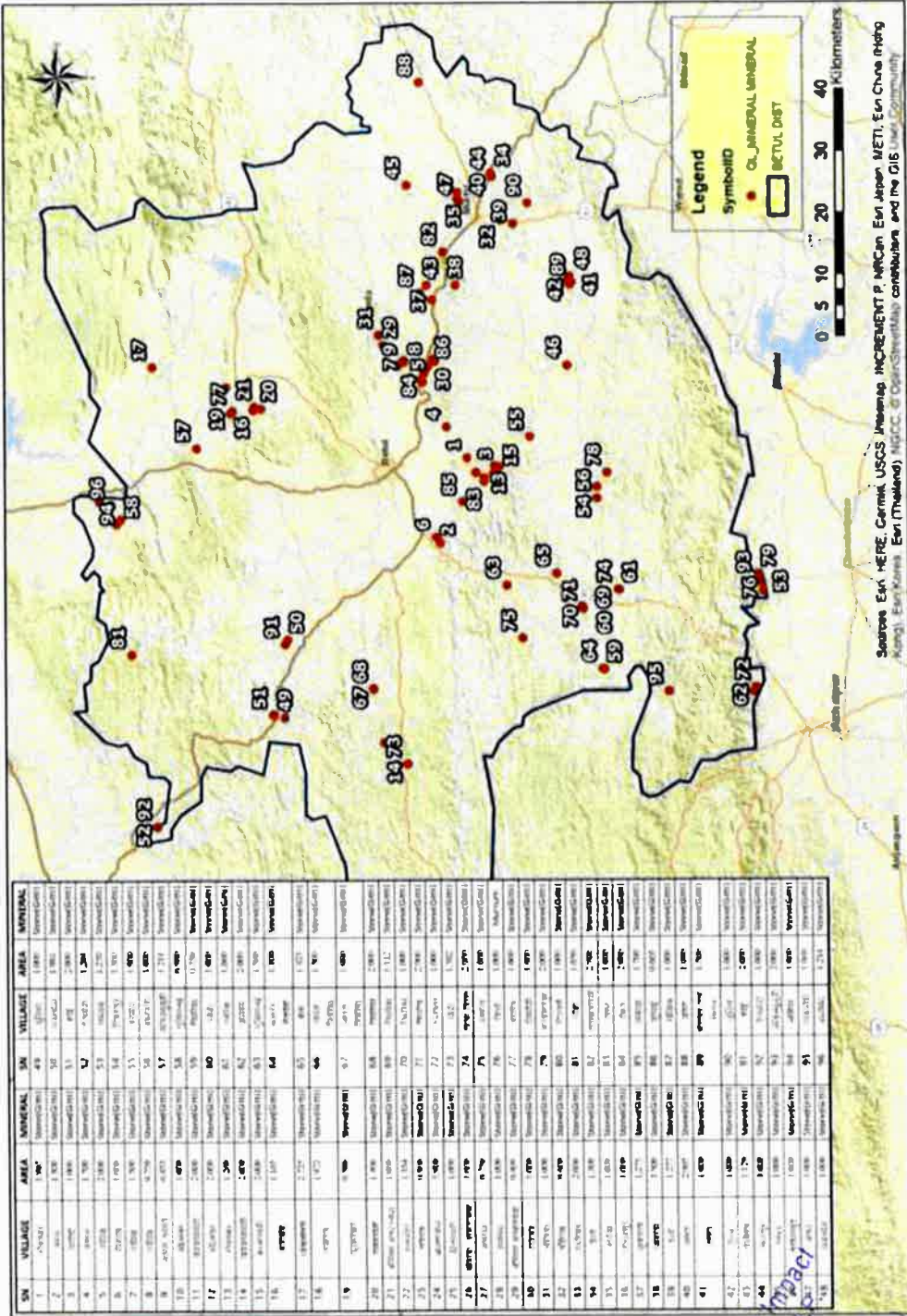
Detail of Demand and Supply of minor minerals in the financial year 2021-22

Sr. No	Mineral	Production and Dispatch for the Year 2021-22	
		Production (in ton)	Dispatch (in ton)
1	Gitti	519926.9	519926.9
2	Boulder	180	180
3	Stone	105930	105930
4	Murum	14188	14188


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CHAPTER -18
18. Mining leases marked on the map of the district

MAP SHOWING MINOR MINERAL QUARRY LEASES IN BETUL DIST (MP)



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CHAPTER -19

19. Details of the area of where there is a cluster of mining leases viz. number of mining leases, location (latitude and longitude);

None

CHAPTER -20

20. Details of Eco-Sensitive Area, if any, in the district

None



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CHAPTER -21

21. Impact on the Environment (Air, Water, Noise, Soil, Flora & Fauna, land use, agriculture, forest etc.) due to mining activity:

The most important environmental impact of mining projects is Transportation sources: Transportation sources of air pollutants include heavy vehicles used in excavation operations, cars that transport personnel at the mining site, and trucks that transport mining materials. The level of polluting emissions from these sources depends on the fuel and conditions of the equipment. Even though individual emissions can be relatively small, collectively these emissions can be of real concern. In addition, mobile sources are a major source of particulate matter, carbon monoxide, and volatile organic compounds that contribute significantly to the formation of ground-level ozone Fugitive emissions: Common sources of fugitive emissions include: storage and handling of materials; mine processing; fugitive dust, blasting, construction activities, and roadways associated with mining activities; leach pads, and tailing piles and ponds; and waste rock piles. Sources and characteristics of fugitive emissions dust in mining operations vary in each case, as do their impacts. Impacts are difficult to predict and calculate but should be considered since they could be a significant source of hazardous air pollutants. Noise and vibration: Noise pollution associated with mining may include noise from vehicle engines, loading and unloading of rock into steel dumpers, chutes, power generation, and other sources. Cumulative impacts of shoveling, ripping, drilling, blasting, transport, crushing, grinding, and stock-piling can significantly affect wildlife and nearby residents.

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

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

Air:

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

The major air pollutants due to mining activity includes:-Particulate Matter (Dust) of various sizes. Gases, such as, SulphurDioxide, Oxides of Nitrogen, Carbon Monoxide etc., from vehicular exhaust. Dust is the single Air pollutant observed in the open cast mines. Diesel operating drilling machines, small amount of blasting and movement of machinery/vehicles produce gaseous (NOx and SOx) emissions, usually at low levels. Dust can be of significant nuisances surrounding land users and potential health risk in some circumstances.

Water Impact:

The mining operation leads to intersection of the water table which causes

ground water depletion. Due to the interruption surface water sources like River, Nallah, Odai etc., surface water system, Drainage pattern of the area is altered.

Noise:

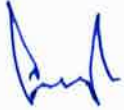
Noise pollution is mainly due to operation of Machineries and occasional plying of machineries. These activities will create Noise pollution in the surrounding area.

Land Environment

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

Flora & Fauna

The impact on bio diversity is difficult to quantify because of its diverse and dynamic characteristics. Mining activities generally result in the deforestation, land degradation, water, air and noise pollution which directly or indirectly affect the fauna and floral status of the project area. However, occurrence and magnitude of these impacts are entirely dependent upon the project location, mode of operation and technology involved.


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CHAPTER -22

22. Remedial Measures to mitigate the impact of mining on the Environment

1.1 Air Environment:

Mitigation Measures

a) For Fugitive Dust Emission:

- All trucks should be covered by tarpaulin sheet to prevent dust emission.
- Water spraying should be there in haul road, crusher and mining area.
- Wet drilling should be preferred
- Sharp drill rods should be used to reduce dust generation
- Dust extractor should be used to reduce dust generation

b) For vehicular Emission:

- Overloading of trucks and trolleys should be prevented.
- Vehicular emission can pose serious health hazard. During the earth mining extraction, tractor/ truck should be used for transportation. Tractor/truck comprises of diesel engine produce particles are dangerously fine of PM10 & PM2.5. It is well known fact that combustion of diesel generates small particulate matter, nitrogen oxides and sulphur dioxide.
- Ultra low sulphur diesel should be used in vehicle. CPCB prescribed emission standards for the vehicle would be followed.
- Monitoring of dust fall at land located nearby the mining area.

1.2 Water Environment:

Mitigation measures

- Safeguards will be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation.
- Labourers should not be allowed to through trashes in water bodies.
- Utmost care should be taken to minimize or control oil spills or leakage from vehicles used for soil transportation
- Water Quality Monitoring for the, ground water should be carried out seasonally to ensure that the water quality is not affected by the project activities.
- The contractor should adhere all guidelines and rules for proper and scientific method of mining during the period of extracting of minerals that the project activities should not have any adverse effect on the physical components of the environment including recharge of ground waters or water quality.

1.3 Land Environment:


Mitigation measures

- Foreign materials like polythene bag, jute bag and useless articles should not be allowed to remain/spill on the land, or no pits/pockets should be allowed to be filled with such material.
- Mining should not exceed beyond the agreed extraction depth.
- Development of thick plants around mining lease areas.

1.4 Noise environment:

Mitigation measures

- Well maintained vehicles should be used in order to reduce the noise during movement of vehicles.
- Regular and proper maintenance of transportation vehicles (trucks, tractor etc.) should be ensured.
- Proper and timely maintenance of machineries


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- Major noise generating Equipments like DG set shall be housed.

1.5 Flora and Fauna:

Mitigation measures

- Sediment and erosion control by planting native trees and shrubs to stabilize degraded farming land. .
- Regular monitoring of plants and animals on site.
- Establishing and maintaining habitat corridors.
- Controlling access to the site to protect habitats.



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CHAPTER -23

23. Reclamation of Mined out area (best practice already implemented in the district, requirement as per rules and regulation, proposed reclamation plan)

Reclamation - Reclamation means return the mined-out land with useful life. It implies restoring the land to a form and productivity that is useful and inconformity with a prior land use. Reclamation always may not be a single phase operation. ii. Rehabilitation - Rehabilitation is to bring batch the degraded land to a normal stage by a special treatment. It is a process of taking some mitigation measures for disturbed environmental condition created through mining activities. iii. Restoration - Restoration is the process of returning the mined out land being fit to an acceptable environmental condition. However, the general acceptable meaning of the term is bringing the disturbed land to its original form. Restoration is often used to indicate that biological properties of soil are put back to what they were. This is a rare phenomenon. iv. When active mining ceases, mine facilities and the site are reclaimed and closed.




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CHAPTER -24

24. Risk Assessment & Disaster Management Plan

Mining activity because of the very nature of the operation, complexity of the systems, procedures and methods always involves some amount of hazards. Hazard identification and risk analysis is carried for identification of undesirable events that can lead to a hazard, the analysis of hazard mechanism by which this undesirable event could occur and usually the estimation of extent, magnitude and likelihood of harmful effects. The activities which can cause high risk related to face stability and the person blasting the shots. It was observed that on a working face of the mine, there were large cracks and unsupported rocks were present, which can lead to a serious hazard and injure workers engaged in loading operation and machineries because of rock falls or slides. This type of condition turn out because improper dressing of the bench and improper supervision. To avoid the hazards due to fall of rocks the face must be examined, made suitable for working and the remedial measures must be taken to make it safe if there is any doubt that a collapse could take place. Working of the face should be in the direction taking into account the geology of the area such that face and quarry side remain stable. Another major risk identified in mines is due to the firing of explosive by an unqualified person. In the mines there is problem of fly rocks and the village is located close to the mine and so it is rated high as it can affect many people. Explosives by nature have the potential for the most serious and catastrophic accident. Planning of round of shots, holes correctly drilled, direction logged, weight of explosive suitable for good fragmentation are the few of the steps necessary to ensure its safe use and if the shots are not properly designed can result in misfires, early ignition and flying rocks. No person is allowed to use explosives without being properly trained in its handling.


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CHAPTER -25

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)

The persons employed in the mines are exposed to a number of hazards at work which adversely affect their health. Some of the important ones are dust, noise, heat, humidity, vibration etc.

Almost all occupational diseases can be prevented by adopting proper occupational health measures and engineering control on airborne dust pollution at workplace. Occupational Diseases in mines or industry is required to conduct medical examinations and health surveillance of workers as per the provisions of Mines Act. The essential features of health surveillance programme required to be carried out in mines are:

- (a) Initial Medical Examination of persons to be conducted at the time of appointment.
- (b) Periodic Medical Examination or General physical examination to be conducted once in every year.
- (c) Patients of silicosis disease have not come to light in last 5 years


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CHAPTER -26

26. Plantation and Green Belt development in respect of leases already granted in the district

During mining operation green belt development through plantation is most important for environment safe guard. In the Betul district mining department organised a huge plantation programme in rainy season in every year. The basic approach to green belt/ plant growth in the lease area is to provide an esthetic look, reduce fugitive pollution, and monitor noise effect, etc.

Green Belt will be developed bases on the following principles:

Protect natural or semi-natural environments;

- Improve air quality within urban areas;
- Protect the unique character of rural communities that might otherwise be absorbed by expanding suburbs.
- Plants that grow fast should be preferred
- Preference for high canopy covers plants with local varieties
- Perennial and evergreen plants should be preferred
- Plants having a high Air pollution Tolerance Index (APTI) should be preferred.

The green belt has many benefits for people:

Walking, camping, and biking areas close to the cities and towns.

- Contiguous habitat network for wild plants, animals and wildlife.
- Cleaner air and water.
- Better land use of areas within the bordering cities.

Greenbelt Development & Plantation Programme,

Plantation should be developed at 2 M x 2 M spacing; the rate of survival should be aimed at 80% by regular watering & fencing to keep plants safe from animal grazing. Local species will be planted in consultation with local horticulturist. Diseased plants should be replaced by planting new saplings.

Recommendation for green Belt Development

It is strongly recommended to create greenbelt around the project or in case lease failed the authority should take proper action to stop mining operation or revoke mining permission with necessary action.

Sr No.	Name of Mineral	Name & Address of Lessee's	Contact No. of Lessee	Mining Lease Grant Order	Area in Ha	Proposed Plantation	Plantation Done By PP	Speies
1	2	3	4	5	6	7	8	9
1	Stone(Gitti)	SMT. SARIKA BHAWARSAR W/O UMESH BHAWARSAR ADD. DURGA WARD KOTHI BAZAR BETUL	9425002405	359 04/03/2014	1.965	90	200	babul, aam, jaam, neem, jamun
2	Stone(Gitti)	SHRI RAJ SINGH PARIHAR S/O YURAJ SINGH PARIHAR ADD. GANDHI NAGAR GANJ BETUL	9425002386	19802 22/10/2014	1.500	70	230	sagoan, palash, nilgiri
3	Stone(Gitti)	SHRI SHEIKH ALTAF S/O SHEIKH IBRAHIM ADD. KIDWAI WARD BETUL DISTRICT BETUL	9425002147	7069 08/05/2015	1.000	45	50	nilgiri, jaam, jamun
4	Stone(Gitti)	SHRI NITESH PARIHAR S/O BRAJLAL PARIHAR ADD. TEGOR WARD GANJ BETUL	9424461577	194 30/01/2016	1.700	80	50	SU BABUL, MANGO, NEEM, SAGON
5	Stone(Gitti)	SMT MEENA ADBHUTE W/O RAMESH ADBHUTE ADD. GRAM NAHIYA TEHSIL BETUL DISTRICT BETUL	8889267229	359 04/03/2014	2.000	145	200	neem, nilgiri, aam, jamun, sagoan
6	Stone(Gitti)	SHRI BRANDAVAN YADAV S/O DURGA PRASAD YADAV ADD. NEAR BSNL TOWER SADAR BETUL	9425193066	1532 06/10/2016	1.000	45	100	pipal, nilgiri, babul, neem
7	Stone(Gitti)	SHRI MUKESH KUMAR KHANDELWAL S/O VIJAY KUMAR KHANDELWAL ADD. KOTHIBAZAR BETUL	9425002066	1437 19/06/2016	1.500	350	150	neem, aam, jaam, sagoan
8	Stone(Gitti)	SHRI MAHENDRA KUMAR MALVIYA S/O SRIKALURAM MALVIYA ADD. R K PURAM DUWARIKA NAGAR BADORA BETUL	9425002619	1590 22/10/2016	0.750	35	60	neem, aam, jaam, sagoan

9	Stone(Gitti)	SHRI MAHENDRA KUMAR MALVIYA S/O SRIKALURAM MALVIYA ADD. R K PURAM DUWARIKA NAGAR BADORA BETUL	9425002619	601 15/05/2020	6.433	300	200	neem, aam, jaam, sagaon
10	Stone(Gitti)	SHRI DEVENDRA KUMAR PANSE S/O DEVARAO PANSE ADD. MOTI WARD GOTHI COLONY BETUL	9424488872	1429 19/09/2016	1.000	35	40	nilgiri, jaam, jamun
11	Stone(Gitti)	SHRI SANJAY BHAWASAR S/O PREMLAL BHAWASAR ADD. MALVIYA WARD KHANJANPUR BETUL	9977469988	551 24/04/2017	2.000	90	200	babul, aam, jaam, neem, jamun
12	Stone(Gitti)	SHRI MUKESH PAWAR S/O KALIRAM PAWAR ADD. GRAM KADHAI POST BHARAT BHARTI TEHSIL BETUL DISTRICT BETUL	8959431635	1257 06/10/2017	2.000	90	250	aam, neem, jaam, jamun, nilgiri, babul
13	Stone(Gitti)	SMT MANOJ KUMAR TYAGI S/O RAM PRAKASH TYAGI ADD. VIKAS NAGAR KALAPATHA BETUL	9630123436	1076 31/05/2019	1.269	1590	175	jaam, neem, ashok, sithfal, jamun
14	Stone(Gitti)	SMT. SARIKA BHAWASAR W/O UMESH BHAWASAR ADD. DURGA WARD KOTHI BAZAR BETUL	9425002405	590 13/05/2020	2.000	2400	400	su babul, neem, jaam, jamun, aam
15	Stone(Gitti)	MS ANKUR CONSTRUCTION PRO ANKUR TATED ADD. CIMENT ROAD KOTHI BAZAR BETUL	9425002303	14037 14/12/2020	2.000	2400	50	jamun, nilgiri, su babul
16	Stone(Gitti)	SHRI VISHAL AGRAWAL S/O NATHURAM AGRAWAL ADD. GHORADONGARI DIST.BETUL	9425002718	248 14/02/2014	1.165	50	50	sagaon, nilgiri, babul
17	Stone(Gitti)	SHRI SWAPAN VISWAS S/O HARADHAN VISWAS ADD. GRAM AMDOH THESEL GHORADONGARI DIST.BETUL	9753698568	237 09/02/2016	2.725	120	120	nilgiri, babul, neem
18	Stone(Gitti)	SHRI RAJESH AGRAWAL S/O RADHE SHAYAM AGRAWAL ADD. GRAM GHORADONGARI DIST.BETUL	9406923101	1485 20/11/2017	1.972	90	70	neem, nilgiri, aam, jamun, sagaon


19	Stone(Gitti)	SHRI VIKAS BATRA S/O RAMESH BATRA ADD. GHORADONGRI TH.GHORADONGRI DIST BETUL	9425002223	1120 11/09/2017	0.586	45	40	nilgiri, babul, neem
20	Stone(Gitti)	SHRI JITENDRA SONARE S/O MAROTI RAO SONARE ADD. GHORADONGARI DIST.BETUL	9301879317	1269 06/07/2018	1.490	500	240	jamun, nilgiri, su babul
21	Stone(Gitti)	SHRI AKASH AGRAWAL S/O KAILASH CHANDRA AGRAWAL ADD. GHORADONGARI DIST.BETUL	9407519991	1656 10/09/2018	1.000	45	100	nilgiri, babul, neem, aam, sagaon
22	Stone(Gitti)	CHARNJEET SINGH ARORA S/O SURENDRA SINGH ARORA ADD. NEAR POLICE THNA AMLA DISTRICT BETUL	8770251769	10927 10/06/2014	1.334	50	200	pipal, nilgiri, babul, neem
23	Stone(Gitti)	SHRI PERMINDER SINGH CHADHA S/O MANMOHAN SINGH CHADHA ADD. MAIN ROAD BORKHI CHOUK AMLA DISTRICT BETUL	9425402200	19794 22/10/2014	0.800	45	100	jamun, nilgiri, su babul, aam
24	Stone(Gitti)	MS SHRI BALAJI ASSOCIATES PRO. NARAYAN PAWAR ADD. HOUSING BOARD COLONY GANJ BETUL	9826023391	7126 03/04/2017	3.900	180	400	nilgiri, babul, neem, aam, sagaon
25	Stone(Gitti)	SMT SANGEETA THAKUR RAGHUVANSHI W/O BALWANT SING RAGHUVANSHI BAMHNI, TAH. AMLA DIST. BETUL. M.P.	9753212040	918 21/06/2016	1.000	45	300	nilgiri, babul, neem, aam, sagaon
26	Stone(Gitti)	SHRI NITIN HARODE W/O YADAVRAV HARODE ADD. VIKAS NAGAR KALAPATHA BETUL	9425474217		1.000	45	50	neem, aam, nilgiri, babul
27	Stone(Gitti)	SHRI RAHUL PATEL S/O SHANTIBHAI PATEL ADD. RAILWAY GET BETUL GANJ BETUL	9425002469	662 10/04/2018	0.750	45	150	jamun, nilgiri, su babul, kathal

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28	Stone(Gitti)	SHRI UPENDRA KUMAR SURYAWANSHI S/O NATHU PRASAD SURYAWANSHI ADD. CHANDRASHEKHAR WARD SADAR BETUL	9424413705	1553 29/11/2017	1.000	350	150	neem, aam, niligiri, babul, jamun
29	Stone(Gitti)	SHRI RAJENDRA DESHMUKH S/O MAROTIRAO DESHMUKH ADD. KHIDKIKALA TH.AMLA DIST.BETUL	9826969626	1011 01/06/2018	0.809	250	200	Mango, Karanji, Mahua
30	Stone(Gitti)	MS SHRI TIRUPATI BALAJI ASSOCIATES PRO. ADITYA AWASTHI ADD. KOTHIBAZAR BETUL DIST.BETUL	9753808024	1053 27/05/2019	1.000	1200	50	niligiri, babul, neem
31	Stone(Gitti)	SHRI NIRMAL SINGH SALUJA S/O DILIP SINGH SALUJA ADD. BUS STATION AMLA DISTRICT BETUL	8962147271	916 03/07/2020	1.000	400	70	niligiri, babul, neem
32	Stone(Gitti)	SHRI RAVI KUMAR SAHU W/O PREMCHAND SAHU ADD. MAHAVEER WARD MULTAI TH.MULTAI DIST.BETUL	7415604434	195 05/07/2014	0.600	45	50	Mango, Karanji, Mahua, aam
33	Stone(Gitti)	SHRI SANTOSH KUMAR DONGARDIYE S/O BALARAM DONGARDIYE ADD. GRAM KAMTH TH MULTAI DIST BETUL	9425693492	1715 04/02/2015	2.000	90	40	aam, jaam, jamun, niligiri
34	Stone(Gitti)	SMT KAUSHLYA BAI DESHMUKH W/O AJABRAO DESHMUKH ADD. GHANDHI WARD MULTAI TAH. MULTAI DIST. BETUL	9425629169	7278 07/05/2016	1.300	60	45	jaam, neem, ashok, sithfal
35	Stone(Gitti)	SHRI CHHOTELAL SARODE S/O BUDDHU SARODE ADD. GRAM DEVARI TEHSIL MULTAI DIST BETUL	9039937989	333 25/02/2016	1.000	45	60	neem, niligiri, jaam
36	Stone(Gitti)	SHRI UMESH SAHU S/O IMRATLAL SAHU ADD. MAHAVEER WARD MULTAI	9893770315	273 16/02/2016	1.000	60	40	aam, jaam, jamun, niligiri

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37	Stone(Gitti)	SHRI TAQIUL HASAN RIZVI S/O IBNE HASAN RIZVI ADD. GRAM UBHARIYA TH.MULTAI DIST.BETUL	9425659365	1723 15/11/2018	1.275	60	30	jaam, neem
38	Stone(Gitti)	RAJENDRA SINGH KILEDAR CONSTRUCTION PVT LTD DIRECTOR RAGHVENDRA SINGH KILEDAR ADD. BHAINSEHI DISTRICT BETUL	8989622222	348 09/12/2016	3.500	160	200	jaam, neem, ashok, sithfal, karanji
39	Stone(Gitti)	SMT SUNITA SAHU W/O SUBHASH SAHU ADD. BHAGAT SINGH WARD MULTAI TH.MULTAI DIST.BETUL	9425629178	1062 30/08/2017	1.277	60	40	SU BABUL, MANGO, NEEM, SAGON
40	Stone(Gitti)	SHRI ANANDRAO SARODE S/O BUDDU SARODE ADD. KAMTH TH.MULTAI DIST.BETUL	9424480688	6010 06/04/2018	2.905	120	200	jaam, neem, ashok, karanji
41	Stone(Gitti)	SHRI AJABRAO DESHMUKH S/O BHURAJI DESHMUKH ADD. INDIRAGANDHI WARD MULTAI TEH. MULTAI DIST.BETUL	9425629169	1487 20/11/2017	1.000	45	40	pipal, nilgiri, babul, neem
42	Stone(Gitti)	SHRI RAJKUMAR SATPUTE S/O SHANKAR RAO SATPUTE ADD. AMRAVATI GHAT TEHSIL MULTAI DIST BETUL	9755732583	2312 28/12/2018	1.000	480	140	nilgiri, babul, neem, aam, sagaon
43	Stone(Gitti)	SHRI UMESH SAHU S/O DINKAR SAHU ADD. GAUTHANA RANIPUR ROAD BETUL	7869910111	227 24/01/2019	1.129	500	190	nilgiri, babul, neem, karanji
44	Stone(Gitti)	SMT PREMLATA AGRAWAL W/O MURARILAL AGRAWAL ADD. TILAK WARD MULTAI MULTAI DISTRICT BETUL	9425040271	1380 23/07/2018	3.000	120	60	nilgiri, babul, neem, jaam
45	Stone(Gitti)	SMT MANJU AGRAWAL S/O ASHOK KUMAR AGRAWAL ADD. TAPTI WARD STATION ROAD MULTAI TH.MULTAI DIST.BETUL	9425402088	1235 02/07/2019	1.000	1230	375	sagaon, nilgiri, babul, aam, jamun



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46	Stone(Gitti)	SHRI BHOJRAJ BARDE S/O HEMRAJ BARDE ADD. GRAM GARWAHA TEHSIL MULTAI DIST.BETUL	9827267229	1638 05/09/2018	1.000	190	110	pipal, nilgiri, babul, neem
47	Stone(Gitti)	SHRI MAHESH SARODE S/O SURESH SARODE ADD. GRAM DEVRI POST CHANDORA KHURD TEHSIL MULTAI DIST.BETUL	9039937989	1786 04/12/2020	1.000	1510	350	nilgiri, karanji, babul
48	Stone(Gitti)	SHRI PRAVIN BARAI S/O MAHADEVRAO BARAI ADD. INDIRA GANDHI WARD MULTAI TH MULTAI DISTT BETUL MP	9425440648	1820 04/12/2020	1.000	45	50	jaam, aam, karanji, jamun
49	Stone(Gitti)	SHRI RAJENDRA SINGH KILEDAR S/O CHANDRACHAD SINGH KILEDAR ADD. BAZAR CHOUK BHAINSEDEHI DIST.BETUL	9425002073	9867 27/05/2014	1.000	45	150	nilgiri, babul, jamun, aam, bargad
50	Stone(Gitti)	SHRI SUNIL KUMAR ARYA S/O SWAROOPCHANDRA ARYA ADD. NEAR BUS STAND CHICHOLI DISTT BETUL	9981284171	348 03/03/2014	1.981	90	140	sagaon, neem, palash
51	Stone(Gitti)	SHRI NITESH AWLEKER S/O VIJAY AWLEKER ADD. BAZAR CHOUK CHICHOLI TH.CHICHOLI DIST.BETUL	9993335529	21645 27/11/2014	2.000	90	70	nilgiri, karanji
52	Stone(Gitti)	SHRI TEJBHADUR SHAH S/O BHARAT SHAH ADD. GRAM JINVANYA WARD 11 TEHSIL SIRALI DISTRICT HARDA	7610344197	517 24/04/2015	1.284	50	15	nilgiri, neem
53	Stone(Gitti)	SHRI NILESH BADUKALE S/O SURESHRAO BADUKALE ADD. BRAMANWADA TEHSIL CHADURBAZAR DISTT AMRAVATI	9860076442	628 20/10/2014	1.250	60	250	jamun, shami, shisham, pipal, babul, nilgiri, aam, ramphal
54	Stone(Gitti)	SHRI RAJENDRA SINGH KILEDAR S/O CHANDRACHAD SINGH KILEDAR ADD. BAZAR CHOUK BHAINSEDEHI DIST.BETUL	9425002073	862 10/07/2017	1.500	70	150	pipal, nilgiri, babul, neem

55	Stone(Gitti)	SHRI BHIMA BARASKAR-SHRI BALDEO BARASKAR ADD. GRAM DHANORI TEHSIL ATHNER DISTRICT BETUL	7354060569	1180 23/09/2017	1.000	45	60	nilgiri, neem, jaam, ramphal
56	Stone(Gitti)	SHRI VIJAY KAWADKAR S/O SHESHRAO KAWADKAR ADD. VIKASH NAGAR ATHNER TEHSIL ATHNER DIST. BETUL	9770462925	1363 21/09/2020	1.000	1800	250	jamun, shisham, babul, nilgiri, aam
57	Stone(Gitti)	SHRI ARUN TIWARI S/O CHANDRA GOPAL TIWARI ADD. SHAHPUR TEHSIL SHAHPUR DIST BETUL	9424422972	536 29/09/2014	1.214	70	130	nilgiri, sagaon, aam, jaam
58	Stone(Gitti)	SHRI SANTOSH KUMAR JAIN S/O MUNNA LAL JAIN ADD. MANGALMAY VILAS COLONY KULAMDI ROAD HOSHANGABAD	9425408900		0.900	45	30	aam, shitaphal
59	Stone(Gitti)	SMT SANDHYA SINGH CHOUHAN W/O DHARMENDRA SINGH CHOUHAN ADD. WORD NO.3 BHAINSDEHI TEHSIL BHAINSDEHI DIST. BET	9993034923		0.750	45	40	aam, jaam, jamun, nilgiri
60	Stone(Gitti)	SMT PRAMILA DHADSE W/O SATISH DHADSE ADD. CIVIL LINE BHINSDEHI TH. BHAINSDEHI DIST. BETUL	9098017722	768 23/09/2013	1.000	45	60	jamun, sagaon, babul
61	Stone(Gitti)	SHRI KRISHNA LOKHANDE S/O RAMAJI LOKHANDE ADD. GHOGAMA TH BHAINSDEHI DIST BETUL	8120989336	241 26/02/2015	1.060	70	100	sagaon, aam, jamun
62	Stone(Gitti)	SHRI MANGLESH JAISWAL S/O RAMKISHORE BALBHADRALAL JAISWAL ADD. TILAK CHOUK RAMKISHORE JAISWAL MARG PARATWADA MH	9422156187	4978 01/04/2016	2.000	90	120	aam, jamun, shitafal



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63	Stone(Gitti)	SHRI SHAILESH SINGH SHIKARWAR S/O VIJENDRA SINGH SHIKARWAR ADD. NANDI GANGHOLI TEHSIL JOURA DISTT.MORENA	9826247769	4176 09/01/2017	1.500	70	130	aam, neem, jamun
64	Stone(Gitti)	SHRI RAJESH SINGH THAKUR S/O CHANDRAMOHAN SINGH THAKUR ADD. DEVI MOHLLA BHAINSEDEHI DIST.BETUL	9977158717	359 04/03/2014	1.100	70	110	neem, jaam, jamun, amatash
65	Stone(Gitti)	SHRI SACHIN KUMAR DHOTE S/O VASUDEV DHOTE ADD. GRAM BALNER TEHSIL BHAINSEDEHI DISTRICT BETUL	9406537698	359 04/03/2014	1.423	70	90	pipal, nilgiri, babul, neem
66	Stone(Gitti)	SHRI SAKAL DHURVE S/O CHAITU DHURVE ADD. DWARKA NAGAR BADORA BETUL	9584914325	359 04/03/2014	1.500	90	130	imli, aam, jamun, babul
67	Stone(Gitti)	SHRI DILIP KUMAR ARYA S/O RAMDIN ARYA ADD. HIDALI, BHIMPUR TAH BHAINSEDEHI, DISTT BETUL. M.P.	9425304248	359 04/03/2014	1.000	45	50	aam, bargad, neem
68	Stone(Gitti)	SHRI DILIP KUMAR ARYA S/O RAMDIN ARYA ADD. HIDALI, BHIMPUR TAH BHAINSEDEHI, DISTT BETUL. M.P.	9425304248	359 04/03/2014	2.000	90	160	neem, babaul, imli, shisham
69	Stone(Gitti)	SHRI BHUPENDRA SAWARKAR S/O HARI BHAI SAWARKAR ADD. TRIVENI WARD BHAINSEDEHI TEHSIL BHAINSEDEHI DISTT. BETUL	9893474762	359 04/03/2014	1.112	60	40	aam, neem, pipal, babul, nilgiri
70	Stone(Gitti)	SMT PRAMILA DHADSE W/O SATISH DHADSE ADD. CIVIL LINE BHAINSEDEHI TH. BHAINSEDEHI DIST. BETUL	9098017722	359 04/03/2014	1.000	45	160	aam, shitaphal
71	Stone(Gitti)	RAJENDRA SINGH KILEDAR CONSTRUCTION PVT LTD DIRECTOR RAGHVENDRA SINGH KILEDAR ADD. BHAINSEDEHI DISTRICT BETUL	8989622222	359 04/03/2014	2.900	115	150	aam, neem, babul

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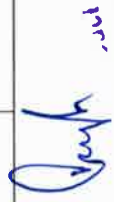
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(E.P.O.)

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72	Stone(Gitti)	SHRI JEEVAN SINGH PARTE S/O JAYSINGH PARTE ADD. GRAM KHOMAI TEHSIL BHAINSEDEHI DIST. BETUL	8208933127	359 04/03/2014	1.000	1200	150	aam, neem, pipal, babul, nilgiri
73	Stone(Gitti)	SHRI PRATEEK SHIVHARE S/O RAJENDRA KUMAR SHIVHARE ADD. BHIMPUR TEHSIL BHAINSEDEHI DIST. BETUL	8989150614	359 04/03/2014	1.582	2400	500	jamun, shisham, babul, nilgiri, aam, bargad
74	Stone(Gitti)	SHRI KRISHNA LOKHANDE S/O RAMAJI LOKHANDE ADD. GHOGAMA TH BHAINSEDEHI DIST BETUL	8120989336	359 04/03/2014	2.000	90	100	nilgiri, sagaon, aam, jaam
75	Stone(Gitti)	SMT ARTI JAISWAL W/O SACHIN JAISWAL ADD. SUBHASH WARD NO.8 BHAINSEDEHI TH. BHAINSEDEHI DIST. BETUL	9977460850	359 04/03/2014	1.000	45	60	neem, aam, imli
76	Murum	SHRI NILESH BADUKALE S/O SURESHRAO BADUKALE ADD. BRAMANWADA TEHSIL CHADURBAZAR DISTT AMRAVATI	9860076442	359 04/03/2014	1.000	1500	350	imli, aam, jamun, babul
77	Stone(Gitti)	SMT SUPRIYA AGRAWAL W/O ASHISH AGRAWAL ADD. DURGA CHOUK GHORADONGARI TH. GHORADONGARI DIST. BETUL	9424808080	359 04/03/2014	1.000	250	140	bambo, nilam, neem, shami ₹
78	Stone(Gitti)	SMT PRAGYA KAUL W/O ANSHUL KAUL ADD. MAHAVEER WARD TIKARI BETUL	6265585514	359 04/03/2014	1.000	120	190	pipal, nilgiri, babul, neem
79	Stone(Gitti)	SHRI AMIT CHANDAK S/O SHYAMSUNDER CHANDAK ADD. ACHALPUR DIST. AMRAVATI	9422156530	359 04/03/2014	2.000	90	130	nilgiri, babul, shami, neem
80	Stone(Gitti)	SHRI KULVANT SINGH KHANUJA S/O JOGINDER SINGH KHANUJA ADD. BAGRATAVA TEH. BABAI DIST. HOSHANGABAD	9111018412	359 04/03/2014	1.000	45	70	pipal, jaam, nilgiri, babul, neem


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81	Stone(Gitti)	SHRI BASTIRAM LAVISKAR S/O MANDAR LAVISKAR ADD. BANJARIDHAL POST DHAPADA DISTRICT BETUL	9424461641	359 04/03/2014	1.050	45	60	imli, aam, jamun, babul
82	Stone(Gitti)	SHRI DEVENDRA MALVIYA S/O L.L. MALVIYA ADD. SAGAR APARTMENT INDORE	9806060699	359 04/03/2014	2.906	3600	2025	jamun, shisham, babul, nilgiri, aam, bargad, neem, shisam
83	Stone(Gitti)	SHRI SUNIL SHARMA S/O BALKISHAN SHARMA ADD. GANDHI WARD BETUL DISTRICT BETUL	9425002011	359 04/03/2014	1.000	45	60	imli, aam, jamun, babul
84	Stone(Gitti)	MS SHRI TIRUPATI BALAJI ASSOCIATES PRO. ADITYA AWASTHI ADD. KOTHIBAZAR BETUL DIST. BETUL	9753808024	359 04/03/2014	2.000	200	170	neem, aam, bargad
85	Stone(Gitti)	MS MAA KALI STONE CRUSHER PRO. GAURAV RATHOR ADD. BETUL GANJ BETUL	9424000585	359 04/03/2014	1.700	90	50	aam, neem, shami
86	Stone(Gitti)	SHRI UDAYRAM SINGH RATHOD S/O GOPAL SINGH RATHOD ADD. SADAR BETUL DIST. BETUL	9685542849	359 04/03/2014	0.665	45	60	neem, jaam, shami
87	Stone(Gitti)	SMT SUMAN SAHU W/O DINKAR SAHU ADD. MQ607 SHOBHAPUR COLONY DIST. BETUL	7689910111	359 04/03/2014	1.000	45	80	neem, aam, bambo ‡
88	Stone(Gitti)	SHRI VISHWAPAL SINGH RAGHUWANSHI S/O NATTHU SINGH RAGHUWANSHI ADD. SONDIYA PO. RIDHORA TH. MULTAI DIST. BETUL	9425383008	359 04/03/2014	1.000	45	110	aam, jaam, bargad
89	Stone(Gitti)	MS TIRUPATI BUILDCON PVT LTD DIRECTOR PADAM KUMAR SINGHANIA ADD. NEAR RAILWAY STATION BUDAR DISTRICT SHAHDOL	8717875555	359 04/03/2014	1.509	90	70	jaam, babul, pipal



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90	Stone(Gitti)	SHRI SATYENDRA MOHAN SAXENA S/O SHYAM LAL SAXENA ADD. BHAGAT SINGH WARD MULTAI TH. MULTAI DIST. BETUL	9424396988	359 04/03/2014	1.000	45	80	amaltash, pipal, aam
91	Stone(Gitti)	SHRI JITENDRA ARYA S/O BABULAL ARYA ADD. CHICHOLOI DISTRICT BETUL	9425005594	359 04/03/2014	2.000	90	120	pipal, aam, bambo, nilgiri
92	Stone(Gitti)	SHRI ALTAF KHAN S/O YUNUS KHAN ADD. MANPURA HARDI DISTRICT HARDI	9826099527	359 04/03/2014	1.000	45	160	shitphal, aam, shisho
93	Stone(Gitti)	SHRI SHIVENDRA SINGH KILEDAR S/O DURGA CHARAN KILEDAR ADD. BAZAR CHOUK BHAINSEHI DIST. BETUL	9425002373	359 04/03/2014	2.000	90	60	aam, neem, sagaon
94	Stone(Gitti)	SHRI JAGDISH AGRAWAL ADD. BHAURA TEHSIL SHAHPUR DIST. BETUL	9425041824	359 04/03/2014	1.000	60	60	karanji, aam, neem, jamun
95	Stone(Gitti)	SMT FULEY JAWARKAR W/O SURAJLAL JAWARKAR ADD. PAGADORI TEHSIL BHAINSEHI DIST. BETUL	9479519677	359 04/03/2014	1.969	90	130	mahua, Imli, jaam, aam ₹
96	Stone(Gitti)	SHRI RAJESH RAO S/O SURESH RAO ADD. KOTHIBAZAR HOSHANGABAD DIST. HOSHANGABAD	7999613991	359 04/03/2014	1.214	90	110	neem, aam, bambo, bargad


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Plantation Photographs



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



Kolgaon, Madhya Pradesh 460001, India

Latitude 21.780019999999999 Longitude 77.88889833333333°

Altitude 12.6 meters
Saturday, 24.09.2022

Local 01:13:20 PM
GMT 07:43:20 AM

GPS Map
Camera Lite



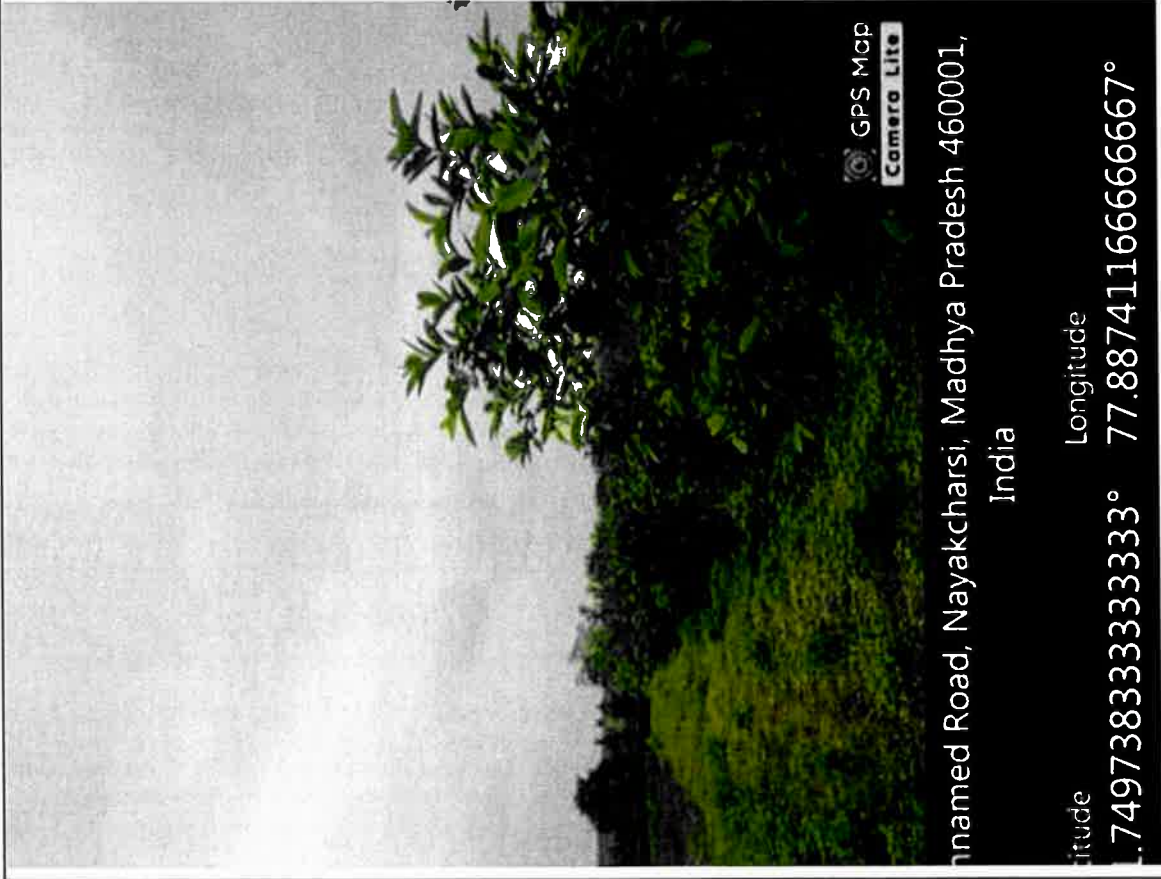
Betul - Athner Rd, Nayakcharsi, Madhya Pradesh 460001, India

Latitude 21.749946666666666° Longitude 77.890971666666667°

Altitude 12.87 meters
Saturday, 24.09.2022

Local 12:27:21 PM
GMT 06:57:21 AM

GPS Map
Camera Lite



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

धारकों द्वारा किये गये वृक्षारोपण की जानकारी, पौधों की संख्या एवं प्रजाति भी प्रस्तुत कर दी गई है। अतः समिति शहडोल 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।

(ह) अन्य गौण खनिज, जिला - बैतूल

Mineral	Other than Sand
Earlier DSR Discussed	SEAC 595 th Meeting dated 22.09.22
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation (Other than Sand)
Deliberation in the SEAC 594 th Meeting dated 22.09.22	<p>राज्य स्तरीय मूल्यांकन समिति की 595 वीं बैठक दिनांक 22/09/22</p> <p>कार्यालय कलेक्टर के पत्र क्र. 1368 दिनांक 19/09/2022 के माध्यम से जिला सर्वेक्षण रिपोर्ट- बैतूल (रेत खनिज) की जिला सर्वेक्षण रिपोर्ट उप समिती का अनुमोदन एवं जिला पोर्टल पर रखने के उपरांत प्रस्तुत की गई है।</p> <p>जिले की बैतूल जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज) में पाया गया कि:-</p> <ol style="list-style-type: none"> 1. प्रस्तुत संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 में जानकारी निर्धारित फार्मेट (16 बिन्दुओं वाली टेबल) के अनुसार नहीं दी गयी है (तालिका -16 पेज 30)। 2. पिछले तीन वर्ष के दौरान उत्पादन किये गौण खनिज का ब्यौरा नहीं दिया गया है। 3. बड़वानी जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या, प्रजातियों की जानकारी को लीज-वार जिसमें यह दर्शाया गया हो कि निर्धारित लक्ष्य के विरुद्ध कितना पौधारोपण किया गया है। इसको भी सम्मिलित करें। <p>चर्चा उपरांत समिति की यह अनुशंसा है कि बैतूल जिले की जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज को समिति की सुझाई गयी उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 के अनुसार पुनः प्रस्तुत की जावे तत्संबंध में उपस्थित खनिज निरीक्षक को भी उपरोक्त संदर्भ में समझाईश दी गयी।</p>
Revised DSR received from District Collectorate (Mining)	Vide District Collectorate (Mining) Office, Baitul , No. 1481 dated 07.10.2022
Hard Copy Soft Copy or both	Hard copy
SEAC meeting dated 07/10/22	<ul style="list-style-type: none"> ● जिले की जिला सर्वेक्षण रिपोर्ट के टेबिल क्रमांक-9 (पेज क्र. 16-34) में खदान की जानकारी निर्धारित प्रपत्र में दे दी गई है। ● जिले में हरित क्षेत्र के विकास हेतु पूर्व के वर्षों में लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या एवं प्रजातियों की जानकारी जिला सर्वेक्षण रिपोर्ट टेबिल क्रमांक-26 (पेज क्र. 56-66) में दे दी गई है।

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

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

समिति ने पाया कि खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला— शहडोल के पत्र क्र0 1481 दिनांक 07/10/22 के माध्यम खदान की जानकारी निर्धारित प्रपत्र में दे दी गई है तथा लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, पौधों की संख्या एवं प्रजाति भी प्रस्तुत कर दी गई है। अतः समिति शहडोल 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।

जिला सर्वेक्षण रिपोर्ट की अनुशंसाओं में त्रुटि सुधार

(अ). **जिला सर्वेक्षण रिपोर्ट (रेत खनिज)— मंदसौर**

समिति द्वारा सेक की राज्य स्तरीय मूल्यांकन समिति की 594 वीं बैठक दिनांक 21/09/22 में जिला सर्वेक्षण रिपोर्ट (रेत खनिज)— जिला मंदसौर के स्थान पर **विदिशा जिला** अंकित हो गया था जिसे टंकण त्रुटि में सुधार उपरांत **जिला मंदसौर** पढ़ा जाये व पूर्व में प्रेषित कार्यवाही विवरण 594 वीं बैठक दिनांक 21/09/22 (पृष्ठ क्र0. – 64) में पूर्ववत् जारी शर्तें/अनुशंसा यथावत् रहेगी।

(ब). **जिला सर्वेक्षण रिपोर्ट (रेत खनिज)— रतलाम**

समिति द्वारा सेक की राज्य स्तरीय मूल्यांकन समिति की 596 वीं बैठक दिनांक 23/09/22 में जिला सर्वेक्षण रिपोर्ट (रेत खनिज)— जिला रतलाम के स्थान पर **हरदा जिला** अंकित हो गया था जिसे टंकण त्रुटि में सुधार उपरांत **जिला रतलाम** पढ़ा जाये व पूर्व में प्रेषित कार्यवाही विवरण 594 वीं बैठक दिनांक 21/09/22 (पृष्ठ क्र0. – 48) में पूर्ववत् जारी शर्तें/अनुशंसा यथावत् रहेगी।

(ए.ए. मिश्रा)
सदस्य सचिव

(डॉ. पी.सी. दुबे)
अध्यक्ष

9. जिला सर्वेक्षण रिपोर्ट बैतूल (अन्य गौण खनिज - रेत को छोड़कर)

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

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

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 598वीं बैठक दिनांक 07/10/2022 के अनुमोदन प्रस्ताव को मान्य करते हुए बैतूल जिले की 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, बैतूल को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।


10. जिला सर्वेक्षण रिपोर्ट खण्डवा (अन्य गौण खनिज - रेत को छोड़कर)

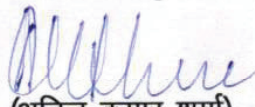
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 598वीं बैठक दिनांक 07/10/2022 में खण्डवा जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज - रेत को छोड़कर) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

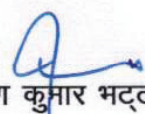
"..... समिति की यह अनुशंसा है कि खण्डवा की जिला सर्वेक्षण रिपोर्ट - गौण खनिज को समिति की सुझाई गयी उपरोक्त अनुशंसाओं के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय की अधिसूचना दिनांक 25/07/18 के अनुसार पुनः प्रस्तुत की जावे तत्संबंध में उपस्थित खनिज अधिकारी को भी उपरोक्त संदर्भ में समझाईश दी गयी।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 598वीं बैठक दिनांक 07/10/2022 की अनुशंसा को मान्य करते हुए सर्व सम्मति से निर्णय लिया गया कि जिला कलेक्टर खण्डवा को सूचित किया जाये कि SEAC द्वारा सुझाई की उपरोक्त अनुशंसाओं को नवीन जिला सर्वेक्षण रिपोर्ट में अद्यतन किया जाकर पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 में निर्धारित फार्मेट में संशोधित एवं अद्यतन वांछित जानकारी सीधे ही SEAC को प्रेषित करते हुए SEIAA को भी प्रति प्रस्तुत करें। तदनुसार संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

11. प्रकरण क्र 9244/2022 परियोजना प्रस्तावक श्रीराम कन्स्ट्रक्शन एण्ड बिल्डिंग मटेरियल सप्लायर, प्रो. श्री योगेन्द्र प्रताप सिंह, निवासी जकीरा हाउस, घूरडांग, रघुराजनगर, जिला सतना (म.प्र.) द्वारा मुरुम खदान, (ओपनकास्ट सेमी मैकेनाइज्ड विधि), उत्पादन क्षमता 11000 घनमीटर प्रतिवर्ष, रकबा 1.804 हेक्टेयर, खसरा 49/1/ख/1/1, 49/1/ख/1/2, 49/1/ख/2, ग्राम बेला, तहसील रघुराजनगर, जिला सतना(म.प्र.) की पूर्व पर्यावरणी स्वीकृति के लिये आवेदन।


(श्रीमन् शुक्ला)
सदस्य सचिव


(अनिल कुमार शर्मा)
सदस्य


(अरुण कुमार भट्ट)
अध्यक्ष