

PROJECT NAME	Magarhata Dolomite Mine (ML Area-1.40 Ha)
PROJECT PROPONENT	Sh. BrijKishor Bhargava
PROJECT ADDRESS	Village Magarhata Tehsil –Badwara, District- katni, Madhya Pradesh

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1.0 EXECUTIVE SUMMARY

Dolomite mine project is located in Village Magarhata Tehsil –Badwara, District- katni, Madhya Pradesh and proposed by Shri Brij Kishore Bhargava to cater the need of minerals in the area. The total ML area is 1.40 ha, which is Govt. land.

The mine lease deed executed between Govt of M.P. and Shri Brij Kishore Bhargava for Limestone, Dolomite and Quartz Minerals on 6/07/1983 for 1.40 ha area. However, at present mine lease area is not having Limestone and Quartz minerals and excavation is possible and proposed only for minor mineral Dolomite. Approved Scheme of Mining dated 08.05.2014 also reflects accordingly and that there is no other mineral reserve/resources left in the mine area except of dolomite. The approved mine scheme only proposes dolomite production. Mining is a site specific due to its geological origin. Thus, no alternative sites are proposed.

The Mining lease has been sanctioned for 10 years Period w.e.f. 25.07.1983 to 24.07.1993. The lease area is under deemed extension for 50 years period up to 24.07.2033 as per The MM (D & R) Amendment Act 2015.

2.0 INTRODUCTION OF THE PROJECT/ BACKGROUND INFORMATION

2.1 Identification of Project and Project Proponent

Magarath Dolomite Mine will be executed in an area of about 1.40 ha located in Village Magarhata, Tehsil –Badwara, District- Katni, Madhya Pradesh. The mine lease area was granted to Shri Brij Kishore Bhargava by Government of Madhya Pradesh on 6/07/1983 for 10 year. The mine lease area is deemed extension for 50 years from it is inception date (i.e from 25.07.1983 to 2034) as per MM(D&R) Amendment Act, 2015

Scheme of Mining (SOM) was approved by IBM Jabalpur on vide its letter no. M.P./Katni/Limestone/M.Sch-36/13-14/2678 dated 12/5/2014. The lease deed and copy of approved SOM area attached in additional information.

2.2 Brief Description of Nature of Project

Proposed project is opencast mining project and based on semi-mechanised method including occasional drilling and blasting. The salient features are tabulated below

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TABLE- 1.0
PROJECT BRIEF

Sl. No.	Parameters	Description	
1	Mining Lease Area	1.40 ha	
2	Owner ship/Occupancy	Government Waste Land	
3.	Geographical co-ordinates	Latitude	23°41'22.9" to 23°41'28.6" N
		Longitude	80°33'41.8" to 80°33'46.8" E
4.	Toposheet No.	64 A/10	
5.	Khasra No	Khasra No.	Area (ha)
		Old - 222	1.40
		New Khasra No. - 173	
6.	Govt. Order for Grant of Lease	F-3-113/83/12/3 dated 20.05.1983	
7.	Production (TPA)	22,947 TPA	
8.	Life of mine	11 Years at present level of exploration	
9.	Mineral Reserve (Tonnes)	Probable Mineral Reserve, Dolomite =221355 t. Pre Feasibility Mineral Resource, Dolomite= 219792 tonne. Inferred Mineral Resource = 315900 t.	
10.	Mining Method	Opencast semi machnized method of mining will be adopted in the lease area	
11.	Drilling/ Blasting	Drilling and blasting has been proposed of hole dia 33 mm and upto 1.5m depth No deep hole drilling and blasting of large dia will be carried out.	
12.	Ultimate Pit Slope	45°	
13.	Ultimate depth of Mining	15 meter below general ground level. No ground water intersection.	
14.	Ground water level	30-35 meter BGL	
15.	Drainage pattern/ water courses	There is no stream crossing in the mine lease area. No perennial source of surface water in mine lease area.	
16.	Name of Rivers/ Nallahs/ Tanks/ Spring/ Lakes etc	<ul style="list-style-type: none"> • Datla Reservoir -1.5 Km in North. • Mahanadi River, 9.5 K.M in NE • BhabrarNala, 4.2 Km in W • BhamrariNala, 10.8 Km. in SW • JirgiriNala, 5.5 K.M. in S 	
17.	Name of Reserve Forest(s), Protected forest, Wild life Sanctuary and National parks etc.	<ul style="list-style-type: none"> • Protected Forest near Magarhatta , 660 m in South • JoraPahad Reserve Forest, 4.3 m in SW • Bijhota Reserve Forest, 8.5 Km in SW • Protected Forest near Balwara, 7.0 Km in S • Kudra Reserve Forest, 8.8 Km in S • Protected Forest near Kachhari, 4.8 km in SE • Mohan panika pahar, 5.6 Km in SW 	

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		<ul style="list-style-type: none"> • Dongra Gawanka pahad, 6.0 Km in SW • Bagha Khol Pahad, 8.6 km. in SW
18.	National Highway	NH- 78, approx. 7.0 K.m in NE
19.	Nearest Airport	Jabalpur in SSW at approx. 76.40 KM
20.	Nearest Railway Line	Rupaund railway station approx. 4.58 km in NNE
21.	Nearest Town	Nearest Village:- Chandan, approx. 3.06 km in NNW Nearest Town: Jalwara, approx. 10.36 Km NNW City: Katni, approx. 19.67 Km in NNW
22.	Cost of project	Rs. 40 lakhs

* All distances are aerial distance

2.3 Need for the Project & Importance to the region

With respect to the importance of the project to the nation, it can be said that minerals forms the backbone of infrastructural development in any country. The proposed project would help in reducing the shortfall of the commodity as every mineral has different uses in various sector.

Dolomite has a number of uses, the most important of, which is construction, where it may be used as a substitute for limestone and as a source of magnesium. It will also be used as fluxing material in blast furnace operation in secondary steel; ferro manganese manufacture; refractory, ramming and felting material in steel melting shop. Thus, proposed project not only fulfill local market requirement, but also generate employment and provide revenue to the Government.

2.4 Demands-Supply Gap

The prosed project doesn't have vide scale mining area therefore mineral will be produced from the mine would basically meet the requirement of local area. However, it is well known that demand of, dolomite has been rapidly increasing over the years. Dolomite is an essential constituent of Glass, Steel & Ferro Alloys, Metal manufacturing etc. The requirement of Dolomite is quite substantial in the above nature of industries. There is a gap between the demand and supply of Dolomite in the region. The existing mining project aims to marginally fill the demand – supply gap. Hence, it proposes to bridging the demand supply gap of Dolomite requirement in the region also contributing to reduce the production cost of Dolomite made products, contributing to stabilization in its prices (though marginally).

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2.5 Imports vs Indigenous Production

Madhya Pradesh is bestowed with abundance of minerals deposits. Hence there is neither any requirement of import nor is proposed. As such import possibilities with respect to any machineries is nil in the proposed project.

The Dolomite mining industry has witnessed continuous modernization and adoption of new technologies in recent years. But, imports of dolomite increased considerably in each year, it is mainly from UAE and Thailand. The proposed project will indigenously produce Dolomite Ore and contribute in saving the foreign exchange for importing Dolomite metal, thereby benefitting the economy.

2.6 Domestic / Export Markets

The mineral will be produced will only serve the indigenous demand and no export possibility.

2.7 Employment Generation

About 35 people will be benefited by way of regular employment in the project and few people will get opportunity to indirectly engage in business / petty contracts. This will improve socio-economic status / standard of living of the people will be appointed for.

3.0 PROJECT DESCRIPTION

3.1 Type of Project including Interlinked and Interdependent Projects, if any

The mine is spread over an area of 1.4 hectares. The proposed production is 22,947 TPA. This is an independent mining project and there are no interlinked projects.

3.2 Location (map showing general location, specific location and project Boundary & project site layout) with coordinates.

The proposed project located in Village Magarhata Tehsil –Badwara, District- katni, Madhya Pradesh. The proposed mining lease area is situated between the latitudes 23°41'22.9" to 23°41'28.6" N and longitudes 80°33'41.8" to 80°33'46.8" E. Point coordinates of mine lease is shown below.

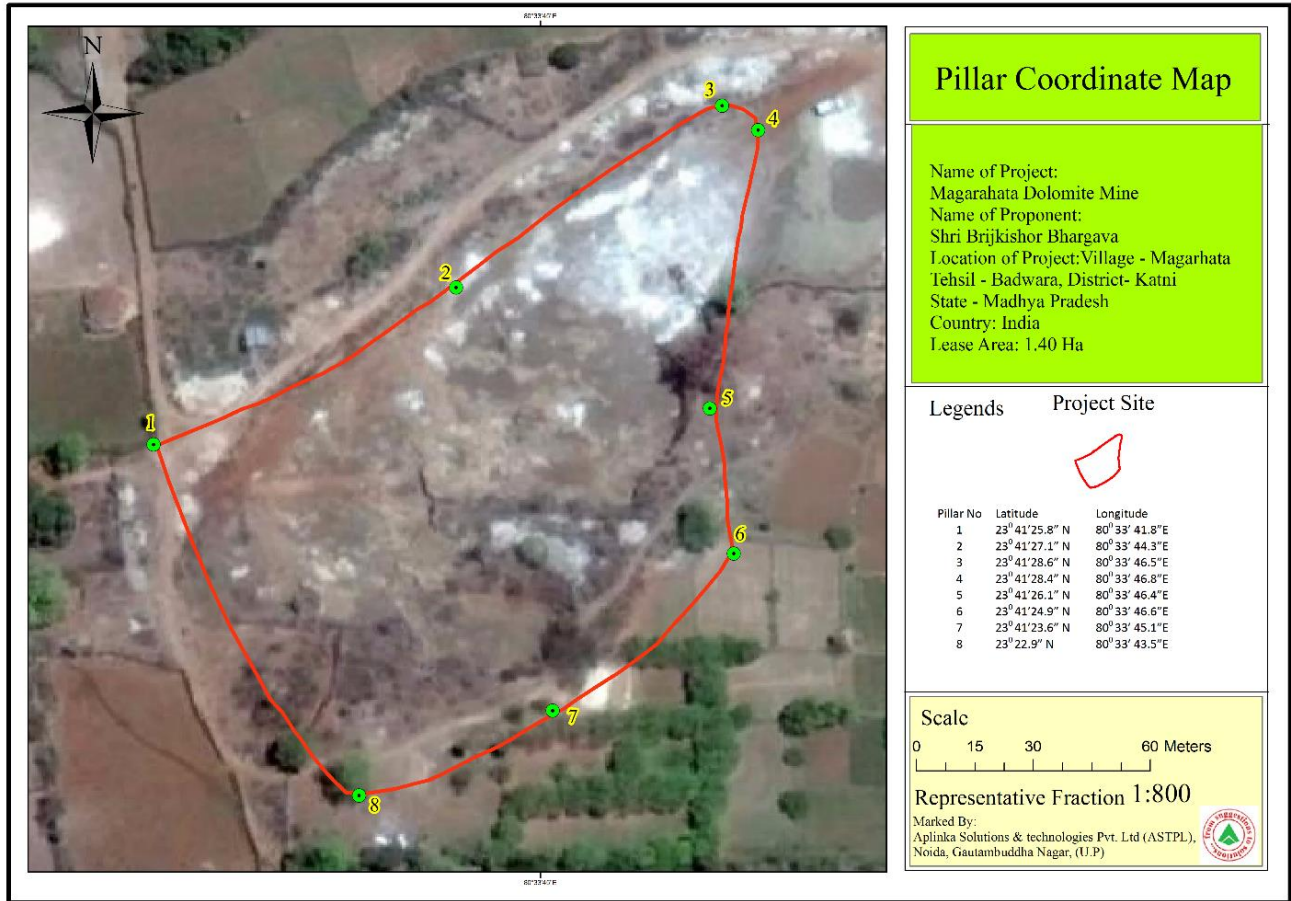
Table- 2.0
GEOGRAPHICAL COORDINATES OF ML AREA

PILLAR NO.	LATITUDE	LONGITUDE	PILLAR NO.	LATITUDE	LONGITUDE
1.	23°41'25.8"	80°33'41.8"	2.	23°41'27.1"	80°33'44.3"
3.	23°41'28.6"	80°33'46.5"	4.	23°41'28.4"	80°33'46.8"
5.	23°41'26.1"	80°33'46.4"	6.	23°41'24.9"	80°33'46.6"
7.	23°41'23.6"	80°33'45.1"	8.	23° 41' 22.9"	80° 33' 43.5"

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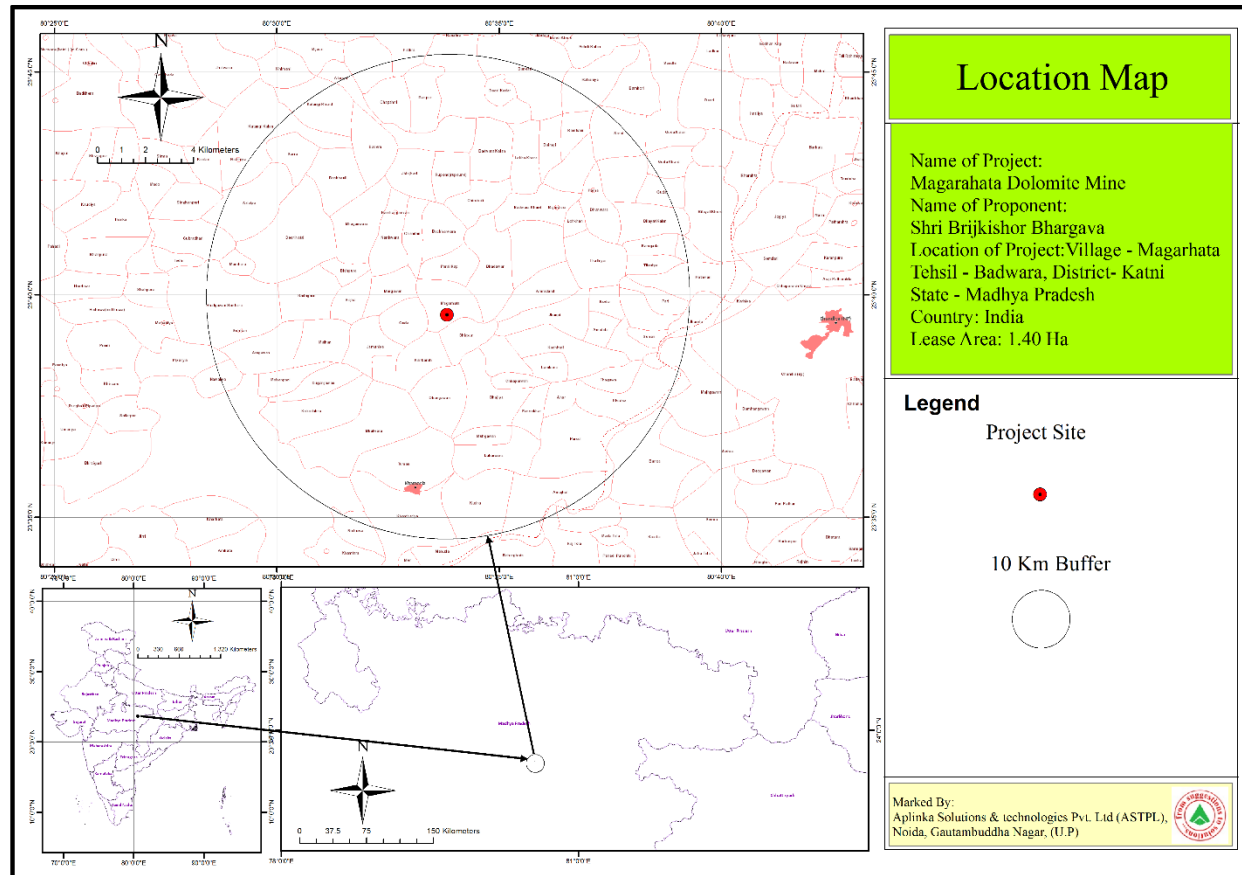


**FIGURE-1.0
PILLAR COORDINATE MAP OF ML AREA**

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**FIGURE-2.0
LOCATION MAP**

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3.3 Details of alternate sites considered and the basis of selecting the proposed site, particularly the environmental consideration gone into should be highlighted.

Mining is site specific activity, which depends on availability of minerals, hence no alternate site is considered.

3.4 Size or magnitude of operation

The mine lease has an area of 1.40 ha. It is proposed have 22,947 TPA dolomite production capacity. The estimated life of mine is 11 year.

3.5 Project description with process details

3.5.1 Local geology

Mahakaushal group is exposed in the area. The Lithology of the lease area in given below :-

- Recent Soil = 0.0 to 0.5m.
- Dolomite = 8.0 m. and Contd.
- Strike = NE - SW
- Dip = 70 to 800 south

Luster :-Vitreous, inclining to pearly in some varieties.

Colour :-Colour white, reddish or greenish white. Also rose, green, brown grey and black transparent to translucent.

Composition :-Carbonate of Calcium and Magnesium, $\text{CaMg}(\text{CO}_3)$ or CaCO_3 .

- MgCO_3 = Corb dioxide 47.9 Lime 30.4, magnesium carbonate 45.65
- Hardness = 3.5 - 4
- Specific Gravity = 2.8 - 2.9

3.5.2 Method of Mining

Opencast semi mechanized method of mining will be adopted in the lease area. The development in OB and loading will be done by manual means. Drilling and blasting will be carried out of dia 32 mm of depth 1.5m in mineral. Winning of mineral and loading will be done by manual means. Various mining activities such as drilling, blasting, loading and transportation will be so conducted as to ensure maximum mineral conservation and minimum environmental degradation. While planning, quality parameter of the deposit has been taken care of so as to have maximum blending ratio.

Drilling in hard strata will be done by Jack hammer of hole dia 32mm. Blasting will be carried out for heaving effect and fragmentation to the deposit. Blasted Ore will be sorted, sized and loaded in to the dumpers by manual means and will be transported to the local market. No labour camp is proposed within the applied area. The transport of men is not applicable as they will come from nearby villages on their own. No tubs, haulage rope, conveyor or locomotive will be used. The OB

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and ore will be excavated and loaded on dumpers. The OB /waste generated will be utilised for backfilling and road development.

3.5.2.1 Extent of mechanization

The mine will be fully developed using following machines and the same will be deployed during mine operation. Quarry road for dumpers will be maintained in good condition. All roads leading from opencast workings to surface will be arranged in a way to provide one way traffic. Definite turnouts and waiting points will be designated. All corners and bends in road will be such that the operators and drivers of vehicle have a clear view for at least 30m. along the road. The haul road will have a gradient of 1 in 16.

I. Drilling machines

TYPE	NOS.	DIA. OF HOLE (MM.)	SIZE / CAPACITY	MAKE	MOTIVE POWER
Atlas Copco Compressor	1	32	110 CFM	Atlas Copco	Diesel
Jack hammer	2				Compressed air

II. Loading equipment: - All loading will be done manually.

III. Haulage and transport equipments

➤ Haulage Within the lease hold area :

The haulage of mineral from working face to trucks or stacking site in quarry bottom will be done manually. The haulage of O.B. will be done with tractor trolley or 10 tonne dumper while unloading will be done mechanically. This will be as and when required. The details are as under -

Type	Nos.	Size / capacity	Motive Power	H.P.
Tractor	1	3 t.	Diesel	110

➤ Transport from Mines Head to the Destination

The mineral will be transported to the destination industries or local market by trucks hired from local transporters as well as of the company.

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The effective time per dumper to destination considering up and down journey inclusive of positioning, loading time and dumping is 4 hours. Hence, 2 trip/day and heaped capacity of the dumpers/trucks is 10 tones.

Hence hauling capacity of 1 dumper per day = 10t. x 2 trips = 20 t.

TYPE	NOS.	SIZE / CAPACITY	MOTIVE POWER	H.P.
Dumpers	6	10 t.	Diesel	210

IV. Miscellaneous:-

The following additional equipment's/machineries will be required for allied operations related to the mining of the deposit not covered earlier. Sharpening and tempering of tools, cleaning the area of loose boulders, maintaining the quarry road, planting and watering the saplings for afforestation will be done by casual labor under mate / foreman supervision. The mine equipment will be procured from the other mine as and when required.

TYPE	NOS.	SIZE/ CAPACITY	MOTIVE POWER	H.P.
Tractor with water Tanker and water Sprinkler	1	2000 ltr.	Diesel	95
Jeep	1			

3.5.2.2 Drilling:-Drilling will be done as per parameters given below.

- Spacing - 1m
- Burden - 0.8 m
- Depth of hole - 1.5m

3.5.2.3 Blasting

Single row blasting of maximum 10 holes of total charge of 3.5 kg. Blasting is proposed for heaving purpose.

- Broad blasting parameter

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Spacing	- 1m
Burden	- 0.8 m
Depth of hole	- 1.5m
Charge per hole	- 350 gms
Powder factor	- 7.5 t./kg.
Dia of hole	- 32mm

- Powder factor in ore and overburden :-Powder factor in ore will be 7.5 to 8.57 tones. per kg. of explosive.
- Type of explosive to be used:- Nitrate mixture; ordinary detonator and Safety Fuse
- No secondary blasting is needed.
- The explosive will be stored in B & S type portable Magazine of capacity 25 kg or will be brought by the permitted carrier of the explosive license holder and the explosive will be used on the same day.

3.5.2.4 Mineable Reserve & Life of Mine

Estimated probable mineral reserve (dolomite) as per UNFC classification is 2,21,355 t. and proposed production capacity will be 22,947 t/annum. The anticipated life of mine would be 11 years.

3.5.2.5 Conceptual Mine development

No external dump has been proposed at conceptual stage. The OB/waste will be simultaneously backfilled in the mined out area during the ensuing scheme of Mining period and used in road development. About 2040 t/annum of OB/Waste is proposed to be generated.

3.6 Raw Material Required Along Estimated Quantity, Likely Source, and Marketing Area of Final Product/s Mode of Transport of Raw Material and Finished Product.

This is a mining project for mining of mineral so no need of raw material. Blasted Ore will be sorted, sized and loaded in to the dumpers by manual means and will be transported and sold in local market.

3.7 Resource optimization/recycling and reuse envisaged in the project, if any, should be briefly outlined

No optimization/recycling and reuse envisaged in the project.

3.8 Availability of water its source, Energy/Power requirement and source should be given

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3.8.1 Water Requirement

The water requirement will be made from nearby villages. A water tanker with sprinkling facilities will also be provided for water spraying on haul roads and for miscellaneous uses at mine. Anticipated water requirement of proposed project is as under:-

TABLE NO - 3.0

WATER REQUIREMENT

SI. No	ACTIVITIES	AVERAGE DEMAND(KLD)
1.	Dust Suppression	3
2	Plantation	5
3.	Domestic Use	2
	Total	10 KLD

3.8.2 Employment Generation

The mine will be worked in a single shift in day light hours. The aprox. total manpower requirement in this project is 35 persons.

3.8.3 Power Requirement

Power requirement will be met from MPSEB office. In accordance with the statutory requirement, the mine haul roads, excavation faces and other working sites is being illuminated.

3.9 Quantity of waste to be generated (liquid and solid) and scheme for their management/disposal.

The overburden removal has been planned in a systematic manner. No soil is proposed to be generated in view of almost whole area being worked and soil is removed. The over burden generated (2040 t/annum) will be used for backfilling followed by stabilization and plantation and road development.

At site rest shelters; drinking water & arrangements for toilets will be made for labour & open defections will be avoided. No labour hutments is proposed as local worker will be preferred for employment. Thus, solid waste generation due to workforce will be very insignificant.

4.0 SITE ANALYSIS

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4.1 Site Connectivity

The lease area falls in Badwara Tehsil of Katni Distt. of Madhya Pradesh State. The lease area is approachable from district head quarter Katni via DevariHatai in south-east direction. It is approx. 22.5 kms from Katni towards south east. The nearest railway station situated on Katni-shahdol section of Western Central Railway is Rupaund at 4.58 kms distance in NNE of the lease area.

4.2 Land form, Land use and Land ownership.

The area covered under mine lease is barren waste land. The area details are as under

TABLE NO - 4.0
LAND OWNERSHIP

District & State	Tehsil	Village	Total Khasra No.	Lease Area in Ha.	Ownership/ Occupancy (in Ha)
Katni&(M.P)	Badwara	Magaratha	Old - 222	1.40	Government barren Land
			New Khasra No. - 173		

4.3 Topography (along with map)

The lease area is almost plain having general slope towards north. The highest elevation of the lease area is 450 m. A.M.S.L. in south east direction and the lowest elevation is 448 m AMSL in north direction. The M.L. area forms a part of the Survey of India Toposheet No. 64 A/10.

4.4 Existing land use pattern (Agriculture, non-agriculture, forest, water bodies (including area under CRZ), shortest distances from the periphery of the project to the periphery of the forests, national park, wild life sanctuary, eco sensitive areas, water bodies (distance from the HFL of the river), CRZ in case of notified industrial area, a copy of the Gazette notification should be industrial area, a copy of the Gazette notification should be given.

The type of existing mine lease area is Government barren waste land. ML area does not fall under CRZ zone. Following protected forest and water bodies falls round the ML area.

Name of Rivers/ Nallahs/ Tanks/ Spring/ Lakes etc

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- Datla Reservoir -1.5 Km in North.
- Mahanadi River, 9.5 K.M in NE
- BhabrarNala, 4.2 Km in W
- BhamrariNala, 10.8 Km. in SW
- JirgiriNala, 5.5 K.M. in S

Name of Reserve Forest(s), Protected forest, Wild life Sanctuary and National parks are ass under

- Protected Forest near Magarhatta , 660 m in South
- JoraPahad Reserve Forest, 4.3 m in SW
- Bijhota Reserve Forest, 8.5 Km in SW
- Protected Forest near Balwara, 7.0 Km in S
- Kudra Reserve Forest, 8.8 Km in S
- Protected Forest near Kachhari, 4.8 km in SE
- Mohan panikapahar, 5.6 Km in SW
- DongraGawankapahad, 6.0 Km in SW
- BaghaKholPahad, 8.6 km. in SW

4.5 Existing Infrastructure

The entire requisite infrastructure required for mine's site services and rest shelter constructed as per Mines Act & Rules.

4.6 Soil Classification

There is no top soil in the ML area. Part of area is excavated except a patch in south-west and east in which mineral is out cropping. Mainly shallow to medium black soil is found in the region.

5.0 PLANNING BRIEF

5.1 Planning concept (type of industries, facilities, transportationetc) town and country Planning/Development authority Classification.

It is an opencast semi mechanized method. The production is proposed at 22,947 TPA. The development in OB and loading will be done by manual means. Drilling and blasting will be carried out of dia 32 mm of depth 1.5m in mineral. Winning of mineral and loading will be done by manual means. Various mining activities such as drilling, blasting, loading and transportation will be so

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conducted as to ensure maximum mineral conservation and minimum environmental degradation. While planning, quality parameter of the deposit has been taken care of so as to have maximum blending ratio. Transport of OB and ore was proposed to be carried out by trucks/ dumpers.

5.2 Land use planning (breakup along with green belt)

The mining lease area (1.40 ha) is barren land. Mining activities are proposed to be carried out in the area of 1.25 ha. only, out of which 0.24 ha area will be backfilled followed by plantation and remaining 1.01 ha will be converted as water reservoir.

At conceptual stage total green belt area will be 0.39 ha, out of which 0.24 comes under backfilled area plantation and 0.15 ha green belt development over buffer zone and bund.

5.3 Assessment of Infrastructure Demand (Physical & Social)

The area is not very well developed as far as job opportunities and living standard of the population is concerned. Apart from cultivation, agriculture etc. mining plays an important source of livelihood in the study area. With the start of proposed mining operations, employment opportunities will be generated. Few persons will be benefited through direct & in direct employment generation.

With respect to physical infrastructure, the road facility is already available which shall be used and maintained. Other infrastructure facilities like road transport, Post & Telegraph, Telephone, Banks etc. are basics for each and every area is already present in town area.

5.4 Amenities/Facilities

Site services will be provided as per the provisions of Mines Act 1952, MMR 1961 and Mines Rules 1955. An office and site services have been constructed in north of the ML area. Site services comprises of office, stores, drinking water facility and first aid, Rest shelters and Urinals.

- Office and stores :-

Office and stores will be provided as per Rules within the applied area.

- First Aid

Specified first Aid station will be maintained at the site office and the rest shelter as per Mines Act-1952. The mines manager and other statutory personnel will be the qualified person to render first aid to the injured and will be the holder of a valid first aid certificate.

- Store & Rest Shelter

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A suitable rest shelter of standard design will be provided near the first aid station. Cool and wholesome drinking water will be provided at the shelter in suitable container. As local workers from nearby areas will be engaged for the mining activity, no residential area/ housing are proposed.

- Lavatory- Portable toilets will be used.

6.0 PROPOSED INFRASTRUCTURE

6.1 Industrial Area (Processing Area)

It is mining project having barren land area only 1.40 ha. It is proposed to have an open cast semi mechanized method of excavation of minerals, and mineral processing or beneficiation are not involved except sizing and sorting.

6.2 Residential Area (Non Processing Area)

As local workers from nearby areas will be engaged for the mining activity, no residential area/ housing are proposed.

6.3 Green Belt

At conceptual stage total green belt area will be 0.39 ha, out of which 0.24 comes under backfilled area plantation and 0.15 ha green belt development over buffer zone and bund.

6.4 Social Infrastructure

It is apparent that every project comes with various direct and indirect job opportunities to the inhabitants, similarly the proposed project will generate job opportunities in area. On the other hand project management will also give support in

- Rural Health service
- Educational Development Programme
- Self-employment, resource development

6.5 Connectivity

The lease area falls in Badwara Tehsil of KatniDistt. of Madhya Pradesh State. The lease area is approachable from district head quarter Katni via DevariHatai in south-east direction. It is approx. 22.5 kms from Katni towards south east. The nearest railway station situated on Katni-shahdol section of Western Central Railway is Rupaund at 4.58 kmsdistance in NNE of the lease area.

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PROJECT NAME	Magarhata Dolomite Mine (ML Area-1.40 Ha)
PROJECT PROPONENT	Sh. BrijKishor Bhargava
PROJECT ADDRESS	Village Magarhata Tehsil –Badwara, District- katni, Madhya Pradesh

1(a)(i)

6.6 Drinking Water Management

It is proposed to obtain water from nearby village after obtaining NoC from gram panchayat. Gram panchayat has already issued NoC dated 14/08/2015 for mine working.

6.7 Sewerage System

Very small quantity of sewage will be generated from the project site and same will be treated in septic tank followed by soak pit.

6.8 Industrial Waste Management

No Industrial waste will be generated from the project and there is no sulphide in the country rock, hence problems of acid minedrainage is anticipated.

6.9 Solid Waste management

The overburden removal has been planned in a systematic manner. No soil is proposed to be generated in view of almost whole area being worked and soil is removed. The over burden generated (2040 t/annum) will be used for backfilling followed by stabilization and plantation and road development.

6.10 Power Requirement & Supply/Source

Power requirement will be met from MPSEB office. In accordance with the statutory requirement, the mine haul roads, excavation faces and other working sites is being illuminated.

7.0 REHABILITATION AND RESETTLEMENT (R&R) PLAN

It is not applicable as no person or family will be up rooted, needing any resettlement of rehabilitation.

8.0 PROJECT SCHEDULE & COST ESTIMATES

8.1 Likely Date of Start of Construction and Likely Date of Completion

No construction activities are proposed. The mining activity will commence only after receiving environmental clearance and other statutory clearance.

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PROJECT NAME	Magarhata Dolomite Mine (ML Area-1.40 Ha)
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1(a)(i)

8.2 Estimated Project Cost Along With Analysis In Terms of Economic Viability of the Project

The cost of the project has been estimated as 40 Lacs. As far as economic viability is concerned the proposed mining project will improve socio economic status/standard of living of the people in the region. The mineral extraction is economically viable as there is demand of this mineral in market.

The area is not very well developed as far as good job opportunities and living standard of the population is concerned and apart from cultivation/agriculture etc. mining plays an important source of livelihood in the study area.

9.0 ANALYSIS OF PROPOSAL

The proposed mine will bring economical benefits to the state by way of royalty for mineral and also to local people via direct and in direct employment opportunities.

In addition, at the end of life of mine out of the total pit area (1.25 ha) 0.24 ha will be backfilled and stabilized by plantation whereas 1.01 ha will be converted into water reservoir for storage of harvested rainwater and surface run off water. This water reservoir will be fenced all around to prevent any accident. This will not only improve the water regime of the area but it will also enhance the aesthetic beauty. Water reservoir will provide following benefits:-

- Utilization in Pisciculture purpose;
- Source of irrigation in nearby agriculture field. Source of artificial ground water impoundment;
- The area under reference is water scarce and cattle will be fed for drinking water on the available water reservoir;
- The water reservoir will attract birds and will improve aquatic environment;
- It will also serve motto of socio economic and corporate social responsibility of the lessee by way of supplying water for irrigation purpose or at will of the local.

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