

Environment Management Plan

FOR

MINING OF BANAS RIVER SAND QUARRY

AREA:-4.5 HECTARE KH. NO:-233

AT


VILLAGE:- BODDIHA, TEHSIL -: BEOHARI,

DISTT-: SHAHDOL (M.P.)

GRAM PNACHAYAT

BODDIHA

TEHSIL- BEOHARI, DIST.-SHAHDOL


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Reg. RQP/DGMMP/147/2016

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G-1 Kamdhenu Tower, arera Colony, in Front of

Habibganj Railway Station,

Bhopal M.P.

REGISTRATION NO. RQP/DGMMP/147/2016

ENVIRONMENTAL MANAGEMENT PLAN

A) BASE LINE INFORMATION

NEW Land use pattern:

The proposed quarry lease area is a part of mound having undulating topography surrounded by agriculture land. The area is mostly covered with Sand /Alluvium. There is no activity in the area excepting proposed quarry operation. As the deposit is in small ground and the surrounding area is agriculture land of single crop pattern which depends on the rainfall. The surrounding area is mostly revenue and private agriculture land with sufficient cover of alluvial soil because of this agriculture activity is being carried out properly. Present land use pattern of the lease area is as follows:-

AREA UNDER	NEW LAND USE PATTERN
1.Pits	0.000
2.Dump	0.000
3.Approch Road	0.000
4.Plantation	0.000
5.Un Used	4.80
Total	4.5 Hect

POLLUTION SOURCES NEW WITH 5KM RADIUS AN THEIR IMPACT ON THE QUALITY OF AIR, WATER AND LAND - Nil

1.0 Name and address of the holder of quarry lease / auction quarry

NAME OF LEASE : GRAM PNACHAYAT: BODDIHA
 RESI- : VILLAGE- BODDIHA
 TEH- : BEOHARI
 DIST : SHAHDOL
 Mineral to mine out : SAND QUARRY
 Capacity : 71280 CUM/year


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Grant of Lease is applied for Quarry lease for the period for 5 years. The lease approval letter is enclosed with Mine plan.

2.0 Details of Area

Details of in principle sanction:

The Sand Quarry lease has been sanctioned through the collector Shahdol vid latter No. 19/KHANIJ/RET /2018/292 Shahdol Dated 06/06/2018

Period- 5 Years

- i. Map Showing Boundary of Sanctioned area.
Khasara Map is enclosed with Mine plan
- ii Khasara Number / Area
Khasara No 233
Area- 4.5 ha.
- iii Name of Village/ Tehsil/ District of Sanctioned area
VILLAGE: Boddaha, Tehsil: Beohari
Dist. Shahdol (M.P.)

Existence of public road / railway line {if any nearby and approximate distance}

S.NO	PLACE	Distance (Km)
1.	Beohari	17
2.	Shahdol	97
3	Boddaha (village)	1.1

3.0 Details of Machines to be used in mining operation:

The method of mining is open cast mining operation will be carried out manually and semi mechanized . The machine will be used as follows:

Loading shall be done semi mechanized.

Transportation of SAND from quarry head to destination

Sand transported per Day -297 M3

Heaped capacity of the Tractor = 3M3

Hence number of Tractor required =95- 100 trolley/Day

4.0 Details of Measurement of quarry pit earlier in the area to be sanctioned and details of mineral concessions situation within 100 m of this area.


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This is a New QL Proposal.

Scheme for tree plantation: The quarry lease is sanctioned for the period of 5 years lease will plant approximate 400 sampling in area. During the lease period we will plant 400/Year plant and species in the barrier zone in consultation with Forest Dept. And revenue departs.

5.0 Details and approximate distance of National park, Sanctuary, Bio Diversity area, Interstate boundary situated within periphery of 10 km from the area to be sanctioned.

There is no National park, Sanctuary, Bio diversity area, Interstate boundary situated within periphery of 10 km from the sanctioned area.

6.0 Proposed annual production of mineral

Production-71280cum/year

Mineral-Sand

7.0 Effect on ground water level due to mining operation and its prevention measures.

The mining of Sand during the lease period will be worked out from the top surface above the ground water table. Thus no ground water pollution is expected, as mining will not intersect the ground water

8.0 Details of scheme of continuous reclamation and rehabilitation of the land degradation due to mining.

Reclamation and Rehabilitation

At the end of lease period following land will be mined out as per present knowledge and reclamation and rehabilitation will be done as under

	Present	At the end of 5 year
Mined out land	00	4.80 Ha
Backfilled	-	0.00Ha
Rehabilitation	-	trees = 100 trees per year (in the buffer area)
Water reservoir	-	Rest Area


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09. Details of preventive and control scheme of air and water pollution.**Air Pollution Control**

The air quality in the lease area as well as in the nearby buffer zone is well below the permissible limits. Following imitative measures shall be adopted for air pollution control due to mining of s Sand.

S.No.	Dust Source	Control Measures
1.	Transportation	No overloading of tractors Regular monitoring of the exhaust proper maintenance Of vehicles
2.	Mine working	Regular water spraying in working areas. Green belt surrounding land
3.	Haul Road	Regular Water Spraying

- I. No overloading of dumpers/truck/trolleys.
- II. Covering the carrying vehicles with tarpaulin to prevent spillage.
- III. Wetting of land and dump stock in case it is dry.
- IV. Regular sprinkling of water on roads in the morning and also at a moment if observed that the dust on road is easily getting airborne.
- V. Fortnightly scraping/bulldozing of road to prevent accumulation of lose dust on road, to shift it to side and to keep roads almost leveled to ensure smooth movement of vehicles and also prevent spillage, thereby, minimizing fugitive dust emission from the roads towards the villages.
- VI. Prior awareness to explain the Eco-friendly mine plan.
- VII. Proper tuning of vehicles to keep the CO gas emissions and noise under check.
- VIII. Plantation of trees at the places, if allowed by the authorities, to help reduce the impact of dust.

10.0 Provision for separate stacking of surface soil excavated from mining operation and its utility.


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Top soil is not available in the quarry lease. Therefore, no separate stacking of soil is required.

Details of social and economic upgradation of mining effected area due to proposed project.

The implementation of Sand mining project will generate direct and indirect employment.

Details of budgetary arrangement for environment management.

Cost of EMP:

Sl.No	Description	Cost to be Incurred {in lakhs/annum}
1	Air Quality: a)Monitoring in the vicinity of the mine b)Monitoring in the vicinity of the transportation network c)Cost of dust suppression d)cost of scraping / bulldozing the accumulated dust on road	0.20 0.10 0.20 0.20
2	Water Quality: a)Surface Water b)Groundwater	0.05 0.05
3	Ambient Noise Level	0.05
4	Soil Quality	0.05
5	Socio-economic condition of local population, physical survey	0.80
6	tree plantation survival etc	0.80
	Total	2.50

12. Any other details desired to be submitted by mineral concession holders Leasee will comply all rules and norms as prescribed by regulatory authority.

NOISE LEVEL:

Drilling and movement of truck/dumper, etc will create the transitional noise level.


However noise generated by these will be occurring at low level and will be within the prescribed upper limit.

VIBRATION:

Proposed mining operations will be of small scale and Semi-mechanized only, hence no vibration will be generated.

Whether the area falls under the notified area under Water Act 1974.

No, Shahdol District is not fall Notified area under water Act 1974.


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Public Building, Places, Monuments:

There is no any public building, places or monumental construction seen in the Vicinity of the area great importance.

ENVIRONMENTAL IMPACT ASSESSMENT STATEMENT DESCRIBING THE IMPACT OF MINING AND BENEFICIATION OF ENVIRONMENT

Due to mining operation, there will be change in the environment whatsoever may be the small nature of mining activities. The proposed mining activity of manual in nature and quarry leasehold area is not large and also the area id devoid of good flora and fauna. The socio-economic status of the surrounding villages is rural with dominant agriculture economy. The surrounding area is thin populated. There will be no adverse impact due to mining on socioeconomic environment .The possible on environment are may be as follows.

EXTENT OF AREA TO BE PLANTED / AFFORESTATION

About 33% area will be afforested at the end of lease period.

GREEN BELT

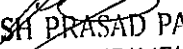
A green Barrier is proposed at the proposed Barrier zone of the quarry.

ENVIRONMENT MANEGMENT CELL

The proposed mining operation will be of very small and it is not possible to setup an environment cell; however the monitoring will be carried out with the new Employee and quarry lease owner himself.

PLACE:- BHOPAL

Date- 11-02-2019


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