

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LST-357

Mine code : 38MPR35329

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Anil Singh(Mines Head),Moradhvaj Mishra, Lessee
Official with
Designation
- (iv) Date of Inspection : 24-AUG-23
- (v) Prev.inspection date : 19-OCT-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ABER 21.794HA.**
- (b) **Registration NO.** : **IBM/19865/2015**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : ABER
Taluka : KOTAR
Post office : ABER
Pin Code : 485001
FAX No. :
E-mail : gavinath_mines@rediffmail.com
Phone : 9425810572
- (f) Police Station :
- (g) First opening date : 28-NOV-17
- (h) Weekly day of rest : SUN
2. Address for correspondence : GAIVINATH MINES & MINERALS PVT.(LTD)
HIG96,BANK COLONY,SATNA
MP
3. (a) Lease Number :
- (b) Lease area : 21.794 Ha
- (c) Period of lease : 30 years period w.e.f. 23.06.2009 to 22.06.2039
- (d) Date of Expiry : 22.06.2039
4. Mineral worked : LATERITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : GAIVINATH MINES & MINERALS PVT.(LTD)
SATNA MP SATNA MADHYA
PRADESH
Phone: 9425810572
FAX :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 24-OCT-19
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	03 Boreholes	07 Boreholes	
1b	Exploration over lease area for geological axis 1 or 2	03 Boreholes	07 Boreholes	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	R. J. DIAMOND CORE DRILLING, RAIPUR.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	Previously G2-21.794 Ha existed. Fresh calculation after carrying out 07 BHs are yet to be furnished.	
1e	Balance reserve as on 01/04/20	Not proposed	122-2036502 T	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of limestone in lease area is stratigraphically controlled and is associated with Bhandar group of Vindhyan super group. The occurrence of limestone in lease area is stromatolitic limestone which is exposed in at the surface in form of out crop. The limestone outcrop is in boulder form. Prominent weathering effect is visible on outcrop part of limestone. They have general E-W trend.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Southwest of the quarry.	Southwest of the quarry.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed.	Separate benches in overburden and mineral maintained.	
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.37	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	30840	12280	Violation pointed out under Rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Only 12280 m3 of OB is generated against the proposal of 30840 m3 of OB for the year 2022-23.The advancement of benches towards southwestern portion of the lease between the pillars BP1-BP2 is lagging behind the approved proposals. Hence, Violation pointed out under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	191400 T	32570 T	Violation pointed out under Rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	

3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	Nil	NA
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NA
3j	Provision of drilling and blasting in mineral benches	Proposed with 2.0-2.2m X2.4-2.5mX2.8-2.9m blast design.	As per proposal
3k	Provision of mining machineries in mineral benches	Proposed	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast/underground (specify) BACK HOE 0.800 CUM 1 Non Electrical Opencast TIPPER 16.000 CUM 2 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast OTHERS (NON-ELEC.) 1.200 1 Non Electrical Opencast

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As per approved proposals.		
3m	Total area covered under excavation/pits	8.5 ha	5.550 ha		Less development and less production.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	1:0.37		
3o	Total area put in use under different heads at the end of year	11.85 ha	8.06 ha		Less development and less production.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 145200 2019-20 170800 2020-21 183400 2021-22 180600 2022-23 191400	2018-19 139600 2019-20 3000 2020-21 20000 2021-22 46838 2022-23 32570		
3q	General remarks of inspecting officers on method of mining etc.				The overall excavation/product ion was lagging. Violation pointed out under rule 11(1) of MCDR 2017. Method of mining adopted is as per approved proposals.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed.	Separate dumping of OB done	
4b	Location of topsoil, OB and mineral reject dumps	OB dump on north eastern corner of lease area.	OB dump on north eastern corner of lease area.	
4c	Number of dumps within lease area and outside of lease area	One dump within lease area	One dump within lease area	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	None	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumping within lease area is demand of the day as existing pit is not matured for reclamation. A 3.0m wide and 2.5m high bund of about 100m long on eastern statutory barrier zone had prepared by the lessee so as to arrest the silt , paybles , bolders particularly in rainy season. Waste dump management is acceptable at present stage.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed. as extent of mining does not reached for backfilling level.	Not applicable .	

5b	Area under backfilling of mined out area	Not Proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed as there is no top soil envisaged .		Not applicable.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured yet to carry backfilling and reclamation.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted.	
6b	Area available for rehabilitation (ha) .	Not proposed	0.49 ha	
6c	afforestation done (ha) .	Not proposed	0.49 ha	
6d	No. of saplings planted during the year	Nil	650 saplings.	
6e	Cumulative no .of plants	Nil	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Environmental monitoring in core zone as well as in buffer zone carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP operations such as plantations were being carried out in the lease area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Mechanical	
7c	Different grade of mineral sorted out at mines.	Cement	Cement	
7d	Any beneficiation process at mines .	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation is not done & entire mineral produced is supplied to cement plant.

 Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Not applicable as there is no top soil generated.	
8b	Concurrent use or storage of topsoil	Not Proposed	Not applicable as there is no top soil generated.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping of only overburden proposed	Dumping of overburden observed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Not applicable as the mined out area / area under working is not matured for restoration.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Natural plantation growth has been largely degraded by human intervention. There are scattered trees of Mahua, Mango, Babool and Sejha towards sloping side in the north, south and NE of the lease area and are found on bund of the agriculture fields in buffer zone.	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on roads to control airborne dust done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines is fair.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Vikash Singh, Msc(Geo), DOA -16/08/23 M.Engineer- Pradeep Gupta, BE (Mining) DOA -01/08/23	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	GIven	The details wrt to Lease area (surface area) utilisation as at the end of year in respect of Reclaimed-rehabilitated is incorrectly furnished.	Violation pointed out under Rule 11(1) of MCDR 2017.

9d	Scrutiny of Annual return on afforestation	Given	Trees planted- survival rate Description Within lease area Outside lease area i) Number of trees planted during the year 650 100 ii) Survival rate in percentage 70 80 iii) Total no. of trees at the end of the year 455 80
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Closing stock at mine-head (Cement Grade) - 46259.883 T
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price (Cement Grade) -Rs.388.04. Cost of production per tonne of ore-mineral produced -Rs.287.35.
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets Rs. 2837035.
9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in open cast underground (specify) BACK HOE 0.800 CUM 1 Non Electrical Open cast TIPPER 16.000 CUM 2 Non Electrical Open cast WATER TANKER 5000.000 LITRE 1 Non Electrical Open cast OTHERS (NON-ELEC.) 1.200 1 Non Electrical Open cast

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(ROBERT SIMON C)

Indian Bureau of Mines