

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LST-1

Mine code : 38MPR47043

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Ravi Grover Lessee
Official with
Designation
- (iv) Date of Inspection : 04-FEB-20
- (v) Prev.inspection date : 05-FEB-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMEHTA (13.900 H)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : AMEHTA
Taluka : VIJAY RAGHAV GARH
Post office : KAHANGAON
Pin Code : 483501
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 10-OCT-76
- (h) Weekly day of rest :
2. Address for : SHRI RAVI KUMAR GROVER
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1690
(b) Lease area : 14.06
(c) Period of lease : 20
(d) Date of Expiry : 10-OCT-96
4. Mineral worked : LIMESTONE Main
LATERITE Associated
BAUXITE Associated
FIRECLAY Associated

5. Name and Address of the

Lessee : RAVI KUMAR GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : RAVI KUMAR GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27-APR-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	07-SEP-10
		Mining Scheme rule 12 MCDR1988	26-JUL-13
		MP modif under 17(3) MCR 2016	10-JAN-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No explortaion proposal was given in the reporting year 2019-20	no exploration was carried out	
1b	Exploration over lease area for geological axis 1 or 2	ML area is explored upto G1 level	Mineralized ML area is explored upto G1 Level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Ambika Boring Work	exploration carried out by M/s Ambika Boring Work in the year 2017-18	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Mineralised area explore upto G1 level	Mineralised area already explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2017 111-2.098907 122-1.493536 211-0.366784 222-0.248096 333-0.483200	as on 01.04.2020 111-1.81447187 122-1.493536 211-0.366784 222-0.248096 333-0.483200	units are in tonnes
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to vindhyan super group of rocks, in the rohtas formation, limestone of the area grey in colour with medium to small grain, hard and compact in nature.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	it was proposed to work in the central part of the ML area	working was not as per the proposal	violation issued
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	propsoed	separate benches proposed in soil and in the mineral benches	
2c	Stripping ratio or ore to OB ratio	1:0.29	1:0.29	
2d	Quantity of topsoil generation in m3	2250 cu m	700 cu m	
2e	Quantity of overburden generation in m3	18420 cu m	11400 cu m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			working was deviated from the direction of working

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one single pit	one single pit	
3b	Quantity of ROM mineral production proposed	147360 tonnes	91404 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90 %	85-90 % recovery	
3d	Quantity of mineral reject generation	Not Proposed	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not Specified	NIL
3f	Quantity of sub grade mineral generation.	Not Specified	Nil
3g	Grade of sub grade mineral generation	Not Specified	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical method proposed	screening is used for segregation of ROM
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Propsoed	Drilling anf blasting in use as per requierment on contract basis
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is used in mineral benches for excavation and transportaion
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Proposed height and width of benches suitable for mining as per approved mining plan
3m	Total area covered under excavation/pits	6.05 hect	5.66 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.29	1:0.29
3o	Total area put in use under different heads at the end of year	9.56 hect	8.24 hect

3p	Production of ROM mineral during the last five year period as applicable	2016-17=145240 2017-18=141408 2018-19=132960 2019-20=147360	2016-17=66432.951 2017-18=44553.179 2018-19=82045.000 2019-20=91404.000
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3q	General remarks of inspecting officers on method of mining etc.		HEMM is under use in mineral benches for excavtaion and transportaion of the ROM, screening is being used for segragation, drilling and blasting on contrcat basis
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	propsoed	Separate dumping of top soil, mineral and waste in being done within the ML area	
4b	Location of topsoil, OB and mineral reject dumps	In the eastern and south eastern part of the ML area	waste and soil dumps are situated in the eastern and south eastern part of the ML area as per proposal	
4c	Number of dumps within lease area and outside of lease area	six	six waste and OB dumps are present in the ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within the UPL	within the UPL	
4e	Number of active and alive dumps.	six	six active dumps of OB/waste	
4f	Number of dead dumps.	Not Proposed	Nil	
4g	Number of dumps established.	Not Proposed	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there.	propsoed	retaining wall of 50 meter and garland drain of around 250 meter were prepared all around the big dumps of OB /waste	
4i	Length of Retaining wall or garland drain all along dumps	proposed	retaining wall of 50 meter and garland drain of around 250 meter were prepared all around the big dumps of OB /waste	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			retaining wall of 50 meter and garland drain of around 250 meter were prepared all around the big dumps of OB /waste

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.	full extraction of mineral proposed	full extraction of mineral under progress upto the UPD	
5b	Area under backfilling of mined out area	2.5 hect	3.15 hect in the north western part of the ML area	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	soil is being used in planttaion over the backfilled area and in barrier zone	
5d	Total area fully reclaimed and rehabilitated	2.50 hec	3.15 hect	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	backfilling of 3.15 hect area has been done againts the 3.15 hect and plantation over the backfilled area has been done
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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).	proposed	submmitted	
6b	Area available for rehabilitation (ha) .	not proposed	no additional area mature enough for rehabilitation	
6c	afforestation done (ha).	2.50 hect	3.15 hect	
6d	No. of saplings planted during the year	500 nos	650 nos	
6e	Cumulative no .of plants	2500 nos	3000 nos aprox	
6f	Any other method of rehabilitation	Not Proposed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP work has been done in the respective backfilled area in the reporting year and planttaion has been done on the backfilled 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 grade wise sorting proposed	ROM is being sorted grade wise before dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method proposed	small size screener is being used for segregation	
7c	Different grade of mineral sorted out at mines.	not proposed	Nil	
7d	Any beneficiation process at mines .	Not Proposed	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being sorted before dispatch by the use of screeners

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	separate removal and utilisation of top soil in plantation in practice	
8b	Concurrent use or storage of topsoil	proposed	soil is being used in planttaion over the backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumpign of OB and waste in practice	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	OB and waste is being used in backfilling of fully excavated area	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	
8g	Survival rate	80-85 %	80%	
8h	Water sprinkling on roads to control airborne dust	proposed	with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements in terms of caring on planted plants

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	AR submitted upto 2019-20 and MR submitted upto Aug 2021	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Submitted	Submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Submitted	<p>Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 2.520 2.520 (ii) Covered under current (O/C) Workings 0.000 4.356 4.356 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 3.140 3.140 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.200 0.200 (vi) Other Purpose (Green belt) 0.000 0.640 0.640 (vii) Work done und</p>
9d	Scrutiny of Annual return on afforestation	furnished	furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	furnished

9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in ? Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 67501.300 91404.000 89655.290 69250.010 326.04 (e) Cement 0.000 0.000 0.000 0.000 0.00
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	ex mine price 326.04 INR cost of production 222.22 INR
9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets (in INR) 1136773

9k	Scrutiny of Annual return on mining machineries	furnished	<p>Type and aggregate Horse Power of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc. Details of any new machinery added during the year may be furnished with cost.</p> <p>Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Opencas</p>
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Details of violations observed during current inspection and compliance position of violation pointed out

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

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines