

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LST-135

Mine code : 38MPR47050

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 04-FEB-20
- (v) Prev.inspection date : 13-MAR-10

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMEHTA(10.016 H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village :
Taluka :
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SMT. SUMITRA GROVER
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR2510
(b) Lease area : 10.02
(c) Period of lease : 20
(d) Date of Expiry : 02-JAN-27
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

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

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

Mining Engineer

Name : S.K.BATTACHARYA, Full Time
 Qualification : Mines Foreman (Permit Manager)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27-MAR-06
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	26-SEP-08
	:	Mining Scheme rule 12 MCDR1988	04-SEP-12
	:	MP review under 17(1) MCR 2016	31-MAR-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Exploration was propsoed in the reporting year 2019-20	no exploration work was carried out during the year	
1b	Exploration over lease area for geological axis 1 or 2	the lease area 10.016 hect is explored upto g1 level	the entier lease area is explored upto G1 level 10.016 hect	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	lessee himself under teh super vision of mining engineer appointed	exploration was carried out by lessee himself under the supervision of mining enigineer	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	entier area explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2017 121-1681541 221-1674000	as on 01.04.2020 121-1456436 221-1674000	
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to vindhyan super group of rocks in teh rohtas formation in katni region, near the kymore hills, limestone of the area dark to light grey in colour, fined to medium grained, hard and compact, shale patches found inbetween the limestone, ML area explored upto G1 level

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to work in the quarry 2 with the working direction towards north and south of the ML area	workign was in the quarry 2, idirection of working deviated	voilation issued for the same
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	propsoed	separate dumping of soil and mineral is being done	
2c	Stripping ratio or ore to OB ratio	1:0.58	1:0.50	
2d	Quantity of topsoil generation in m3	13050 cu m	12450 cu m	
2e	Quantity of overburden generation in m3	9996 cu m	8560 cu m	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			development work was not as per the proposal there is deviation in working direction, voilation issued

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	quarry 2 ,one pit	one pit, quarry 2	
3b	Quantity of ROM mineral production proposed	99960 tonnes	99170 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	80 %	80-85 %, recovery varries due to sudden shale encounter in inter beds	
3d	Quantity of mineral reject generation	Not Proposed	No mineral reject generated	

3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil
3g	Grade of sub grade mineral generation	Not Proposed	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical method proposed	Screening is being done for segregation of mineral from waste
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	only screening process adopted for segregation of ROM
3j	Provision of drilling and blasting in mineral benches	Proposed	as and when required under the supervision of technical staff
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used for excavation and transportaion of mineral
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	as per approved mining plan bench height and width suitable
3m	Total area covered under excavation/pits	5.80 hect	4.15 hect
3n	Ore to OB ratio for the pit/mine during the year.	1:0.58	1:0.58
3o	Total area put in use under different heads at the end of year	8.65 hect	7.256 hect

3p	Production of ROM mineral during the last five year period as applicable	2015-16=17400 2016-17=17400 2017-18=100020 2018-19=99900 2019-20=99960	2015-16=15152 2016-17=15685 2017-18=26135 2018-19=99800 2019-20=99170	units are in tonnes
3q	General remarks of inspecting officers on method of mining etc.			HEMM is being used in mineral benches, Screeners are used for segregation

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	separate dumping of top soil and mineral is being done	
4b	Location of topsoil, OB and mineral reject dumps	three in the central part of the ML area and one in the southern part of the ML area	there were four dumps in the ML area three in the central part of the ML area and one in the Northern part of the ML area	
4c	Number of dumps within lease area and outside of lease area	four	Three -OB and One - waste/mineral reject	
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.	four active dumps	four active dumps	
4f	Number of dead dumps.	not proposed	None	
4g	Number of dumps established.	Not Proposed	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil, dumps are small size	

4i	Length of Retaining wall or garland drain all along dumps	Not Proposed	Nil
4j	Number of settling ponds	Not Proposed	Nil

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 extrcation of mineral under process upto the UPD	
5b	Area under backfilling of mined out area	0.25	0.224	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	top soil is being used in planttaion	
5d	Total area fully reclaimed and rehabilitated	0.25	0.224	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling is being done in the excavated area and planttaion is being done over the backfilled area

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	not submitted	

6b	Area available for rehabilitation (ha) .	0.25	0.224	
6c	afforestation done (ha).	0.25	0.224	
6d	No. of saplings planted during the year	50 nos	30 nos	
6e	Cumulative no .of plants	500 nos	150 nos	
6f	Any other method of rehabilitation	Not Proposed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report not submitted violaton issued

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM grade wise sortign proposed	Rom is being sorted grade wise with the use of screener installed outside the lease area owned by lessee for more than one ML	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method proposed	screener installed	
7c	Different grade of mineral sorted out at mines.	proposed	screener installed in privat eland owned by lessee himself	
7d	Any beneficiation process at mines .	not proposed	Nil	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	grade wise sorting is being done in the near by private land outside the ML area
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	as per proposal soil is being used in plantation over the backfilled area	
8b	Concurrent use or storage of topsoil	proposed	as per proposal soil is being used in plantation over the backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate removal and stacking under process	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	excavated area upto UPD is being backfilled with the generated waste and OB	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per the approved mining plan	
8g	Survival rate	80%	70-75 %	
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 term sof dust separation and plantation
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	online AR submitted upto 2020-21 and MR submitted upto Sept 2021	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Mining Engineer Manoj Kumar Roy	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	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 1.338 1.338 (ii) Covered under current (O/C) Workings 0.000 3.610 3.610 (iii) Reclaimed/Rehabilitated 0.000 1.160 1.160 (iv) Used for waste disposal 0.000 2.320 2.320 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.050 0.050 (vi) Other Purpose (Green belt) 0.000 0.684 0.684 (vii) Work done under
9d	Scrutiny of Annual return on afforestation	furnished	during the year 30 nos of sampling planted

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	Grades Opening stock at mine head (in tonne) Production (in tonne) Dispatches 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 271.865 99170.000 98419.461 1022.404 332.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 0.000 0.000 0.000 0.000 0.00
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9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	Grades Opening stock at mine head (in tonne) Production (in tonne) Dispatches 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 271.865 99170.000 98419.461 1022.404 332.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (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	furnsihed	ex mine price 332 INR cost of Production 270.15 INR
9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets (in INR) 5000660 for including other leases

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) FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 10.000 TONNE 3 Non Electrical</p>
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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 :

(DEEPAK SHARMA)

Indian Bureau of Mines