

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

Review and updation of Mining Plan 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 and QP
Official with
Designation
- (iv) Date of Inspection : 14-JUN-21
- (v) Prev.inspection date :

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 BACKLOG OF PREVIOUS YEAR	THERE WAS NO BACKLOG OF PREVIOUS YEAR	
1b	Exploration over lease area for geological axis 1 or 2	POTENTIAL MINERALISED AREA IS EXPLORED UPTO G1 LEVEL	POTENTIAL MINERALISED AREA IS EXPLORED UPTO G1 LEVEL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	NOT AVAILABLE	
1d	Balance area to be explored to bring Geological axis in 1 or 2	AS ON DATE THE POTENTIAL MINERALISED AREA IS EXPLORED UPTO G1 LEVEL 12.39 HECT	AS ON DATE THE POTENTIAL MINERALISED AREA IS EXPLORED UPTO G1 LEVEL 12.39 HECT	
1e	Balance reserve as on 01/04/20	AS ON 10.01.2017 111-2098907 122-1493536 211-366784 222-248096 333-483200	AS ON 01.04.2021 111-1205272 122-1034575 211-402200 222-1169460	UNITS ARE IN TONNES
1f	General remarks of inspecting officers on geology, exploration etc			THE ML AREA BELONGS TO VINDHYAN SUPER GROUP OF ROCKS IN THE KYMORE SERIES OF LIMESTONE IN THE KATNI DISTRICT. THE LIMESTONE OF THE AREA IS HARD AND COMPACT AND SHALE PATHCES ARE FOUND WITH THE LIMESTONE

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	DEVELOPMENT WAS PROPOSED IN THE CENTRAL PART OF THE ML	WORKIGN WAS DONE IN THE CENTRAL PART OF THE ML IN THE BLOCK A AS THE WHOLE BLOCK A IS OPENED FOR MINING	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	PROPOSED	SEPARATE BENCHES ARE MAINTAINED IN THE SOIL 1.5-2 M, MINERAL BENCHES 6 METER WORKING FACE VARIES FOR THE MOVEMENT OF MACHINERIES	
2c	Stripping ratio or ore to OB ratio	1:0.42	1:0.40	
2d	Quantity of topsoil generation in m3	13800	11200	
2e	Quantity of overburden generation in m3	NOT PROPOSED	NIL	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			WORKING WAS AS PER THE PROPOSED LOCATION WITH SLIGHT VARIATION IN SOIL GENERATION WHICH IS DEPENDS UPON THE DEPOSITION

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	SINGLE PIT	SINGLE PIT	
3b	Quantity of ROM mineral production proposed	118440	111000	TONNES
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	NOT PROPOSED	NIL	

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	MECHANISED METHOD PROPOSED	MECHANISED METHOD ADOPTED
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NOT PROPOSED	NOT APPLICABLE
3j	Provision of drilling and blasting in mineral benches	PROPOSED	SMALL DIA DRILLING PROPOSED ON CONTRACTUAL BASIS
3k	Provision of mining machineries in mineral benches	PROPOSED	HEMM IS BEING USED FOR EXCAVATION AND TRANSPORTATION
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	SUITABLE AS PER APPROVED MINING PLAN	AS PER APPROVED MINING PLAN PROPOSED BENCH HEIGHT AND WIDTH ARE SUITABLE FOR OPENCAST MECHANISED MINING
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.	1:0.42	1:0.40
3o	Total area put in use under different heads at the end of year	9.56 HECT	8.40 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 2020-21=118440	2016-17=66432 2017-18=44553 2018-19=82045 2019-20=91404 2020-21=111000
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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)	PROPOSED	SEPARATE DUMPING WAS DONE FOR THE SOIL AND WASTE WITHIN THE ML AREA IN DIFFERENT BLOCK	
4b	Location of topsoil, OB and mineral reject dumps	IT WAS PROPOSED IN TEH WESTERN SIDE OF TEH BLOCK A AND IN TEH BLOCK B	WASTE DUMPS ARE LOACTED IN THE WESTERN SIDE OF THE ML AREA AND SOIL DUPM IS IN THE BLOCK B	
4c	Number of dumps within lease area and outside of lease area	TWO DUMPS	ONE SOIL DUMP AND ONE WASTE DUMP	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WITHIN THE UPL	WITHIN THE UPL WHOLE ML AREA IS MINERALISED AND EXCAVATED THE EXCAVATION IS BEING DONE TOWARDS UPD	
4e	Number of active and alive dumps.	TWO DUMPS	ONE SOIL DUMP AND ONE WASTE DUMP	
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.	NOT PROPOSED	NIL	
4i	Length of Retaining wall or garland drain all along dumps	NOT PROPOSED	NIL	
4j	Number of settling ponds	NOT PROPOSED	NIL	

4k	Specific comments of inspecting officer on waste dump management			SOIL IS BEING DUMPED IN THE BLOCK B AND ITS BEEN UTILISED IN PLANTATION OVER BARRIER ZONE, WASTE DUMP IS IN THE WESTERN SIDE OF THE ML BLOCK A
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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 EXTRATION OF MINERAL WAS PROPOSED	FULL EXTRACTION OF MINERAL IS UNDER PROCESS	
5b	Area under backfilling of mined out area	NOT PROPOSED	AS THE WHOLE ML AREA IS MINERALISED AND FULL EXTRACTION UPTO THE UPD IS UNDER PROGRESS	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	PLANTATION	SOIL IS PROPOSED TO BE USED PLANTATION OVER THE BARRIER ZONE	
5d	Total area fully reclaimed and rehabilitated	NOT PROPOSED	NIL AS TEH WHOLE AREA IS PART OF OPEN PIT AND DEOTH WISE EXCAVATION IS UNDER PROCESS	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			FULL EXTRACTION OF MINERAL UNDER PROCESS NO AREA IS FULLY MATURE ENOUGH FOR THE BACKFILLING PROCESS

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PROPOSED	SUBMITTED
6b	Area available for rehabilitation (ha) .	NOT PROPOSED	NIL
6c	afforestation done (ha).	0.135 hect	0.02 hect
6d	No. of saplings planted during the year	200 nos	75 nos
6e	Cumulative no .of plants	1000 nos	250 nos
6f	Any other method of rehabilitation	NOT PROPOSED	NIL

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM DISPATCH AFTER MECHANICAL SORTING WAS PROPOSED	ROM IS BEING SORTED BEFORE DISPATCH	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL METHOD	MECHANICAL SORTING IS BEING DONE SCREENERS ARE INSTALLED	
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 SEGRAGATED WITH THE USE OF SCREENERS INSTALLED
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	UTILIZATION OF SOIL IS PROPSOED	SOIL IS BEING USED IN PLANTATION OVER BARRIER ZONE AND PVT LAND	
8b	Concurrent use or storage of topsoil	USE OF SOIL PROPOSED	SOIL WAS USED FOR PLANTATION	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	PROPOSED	AS PER PROPOSAL ON THE WESTERN SIDE OF THE ML AREA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NOT PROPOSED	AS FULL EXTRACTION OF MINERAL NOT DONE YET AND AREA NOT MATURE ENOUGH	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	PROPOSED	AS PER APPROVED MINING PLAN	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	PROPOSED	AS PER APPROVED MINING PLAN	

8g	Survival rate	90%	60-70%	
8h	Water sprinkling on roads to control airborne dust	PROPSOED	WITH THE USE OF WATER TANKER	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			NEEDS IMPROVEMENTS

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	SUBMITTED	AR SUBMITTED UPTO 2020-21 AND MR SUBMITTED UPTO FEB 22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	NOT FURNISHED	NOT FURNISHED	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	FURNISHED	12. Lease area (surface area) utilisation as at the end of year (hectares)
			<p style="margin-left: 40px;">Under</p> <p>forest Outside forest Total</p> <p>(i) Already exploited & abandoned by opencast (O/C) mining 0.000 3.000 3.000</p> <p>(ii) Covered under current (O/C) Workings 0.000 4.180 4.180</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 0.000 3.150 3.150</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.200 0.200</p> <p>(vi) Other Purpose (Green Belt)</p> <p>0.000 0.750</p>
9d	Scrutiny of Annual return on afforestation	FURNISHED	<p>Number of trees planted during the year</p> <p>(a) Within lease area 110</p> <p>(b) Outside lease area 120</p> <p>(ii) Species 80</p> <p>(iii) Survival rate in percentage 80.00</p>
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	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 118240.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	FURNISHED	Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at minehead (in tonne) Ex-mine price (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 69250.010 118240.000 130922.951 56567.059 333.46 (e) Cement 0.000 0.000 0.000 0.000 0.00
9h	Scrutiny of Annual return on fixed assets	FURNISHED	1.Value of Fixed Assets () 1123304 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)

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)</p> <p>DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Openca</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