

**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-2

Mine code : 38MPR47078

- (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 : 14-JUN-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMEHTA (12.934 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (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 : SUN
2. Address for : M/S RAM CHANDRA BADRI PRASAD GAUR
correspondance : NADIPAR, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0258
(b) Lease area : 12.93
(c) Period of lease : 50
(d) Date of Expiry : 10-MAY-26
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : RAM CHANDRA BADRI PRASAD GAUR
NADIPAR KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : RAM CHANDRA BADRI PRASAD GAUR
NADIPAR KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	08-JUL-05
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15-DEC-06
		Mining Scheme rule 12 MCDR1988	13-FEB-13
		MP modif under 17(3) MCR 2016	25-JAN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NO BACKLOG OF PREVIOUS YEARS	NO EXPLORATION WAS PROPOSED IN THE REPORTING YEAR	
1b	Exploration over lease area for geological axis 1 or 2	THE MINERALISED AREA IS EXPLORED UPTO G1 LEVEL OF EXPLORATION	THE MINERALISED AREA OF THE ML IS EXPLORED UPTO G1 LEVEL i.e. 8.00 HECT	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	NOT APPLICABLE	
1d	Balance area to be explored to bring Geological axis in 1 or 2	THE POTENTIAL MINERALISED ARE IS EXPLORED UPTO G1 LEVEL	8.00 HECT COMMES UNDER G1 LEVEL 4.93 HECT COMMES UNDER G2 LEVEL	
1e	Balance reserve as on 01/04/20	AS ON 25.01.2019 111-1506330 122-796431 211-2411350 222-1590088	AS ON 01.04.2021 111-1322457 122-63844 211-803880 222-3239053	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 IN THE QUARRY 2	WORKIGN WAS DONE IN THECENTRAL PART OF THE ML IN THE QUARRY 2 DEEEPING THE PIT	
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	1:0.84	1:0.38	
2d	Quantity of topsoil generation in m3	33750	7000	
2e	Quantity of overburden generation in m3	150653	55000	
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

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	SINGLE PIT	SINGLE PIT QUARRY 2	
3b	Quantity of ROM mineral production proposed	546835	164759	
3c	Recovery of sailable/usable mineral from ROM production	90%	85-90%	
3d	Quantity of mineral reject generation	NOT PROPOSED	NIL	

3e	Grade of mineral rejects generation and threshold value declared.	NOT PROPOSED	NOT APPLICABLE
3f	Quantity of sub grade mineral generation.	NOT PROPOSED	NOT APPLICABLE
3g	Grade of sub grade mineral generation	NOT PROPOSED	NOT APPLICABLE
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED METHOD PROPOSED	MECHANISED METHOD ADOPTED SCREENERS WERE INSTALLED FOR THE SEGRAGATION
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	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 PROPOSED BENCH HEIGHT AND WIDTH ARE SUITABLE FOR OPENCAST MECHANISED MINING
3m	Total area covered under excavation/pits	8.119 HECT	7.319 HECT
3n	Ore to OB ratio for the pit/mine during the year.	1:0.84	1:0.38
3o	Total area put in use under different heads at the end of year	11.630 HECT	10.769 HECT

3p	Production of ROM mineral during the last five year period as applicable	2016-17=NO PROPOSAL WAS GIVEN 2017-18=NO PROPOSAL WAS GIVEN 2018-19=164629 2019-20=550095 2020-21=546835	2016-17=0 2017-18=0 2018-19=156008 2019-20=50004 2020-21=164759	UNITS ARE IN TONNES
3q	General remarks of inspecting officers on method of mining etc.			PRODUCTION WAS ON LOWER SIDE AS PER DISCUSSION REASON FOR THE SAME WAS QUATED AS LOWER DEMAND OF LST MARKET

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	
4b	Location of topsoil, OB and mineral reject dumps	IN THE WESTERN SIDE OF THE ML AREA DUMPS WERE PROPOSED	SOIL AND WASTE DUMPS ARE LOACTED IN THE WESTERN SIDE OF THE ML AREA	
4c	Number of dumps within lease area and outside of lease area	THREE DUMPS WITHIN THE ML AREA	THREE DUMPS ARE LOCATED WITHIN 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.	THREE ACTIVE DUMPS	THREE ACTIVE DUMPS	
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	ONE	ONE	
4k	Specific comments of inspecting officer on waste dump management			WASTE GENERATION WAS NOT DONE AS PER THE PROPOSAL AS EXCAVATION WAS ON LOWER SIDE

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	
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
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).	0.20HECT	0.35 HECT OVER THE BARRIER ZONE	
6d	No. of saplings planted during the year	200 NOS	250-300 NOS	
6e	Cumulative no .of plants	1500 NOS	1000 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%	80-85%	
8h	Water sprinkling on roads to control airborne dust	PROPSOED	WATER TANKERS ARE BEING USED	
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	FURNISHED	MINING ENGINEER S K JAIN	

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 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 8.119 8.119 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 2.550 2.550 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.600 0.600 (vi) Other Purpose () 0.000 0.000 0.000 (vii) Work done under progressiv
9d	Scrutiny of Annual return on afforestation	FURNISHED	FURNISHED
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	FURNISHED	NA

9f	Scrutiny of Annual return on ROM stock and/or graded ore	FURNISHED	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE)</p> <p>Grades Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Despatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in . Per Tonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 5.470 164759.000 164730.480 33.990 310.35</p> <p>(c) Chemical 0.000 0.000 0.000 0.000 0.00</p> <p>(d) BF 0.000 0.000 0.000 0.000 0.00</p> <p>(e) Cement 0.000 0.000 0.000 0.000 0.00</p>
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	FURNISHED	EX MINE PRICE 310.30 INR COST OF PRODUCTION 492
9h	Scrutiny of Annual return on fixed assets	FURNISHED	<p>Value of Fixed Assets (in .) 30273533</p> <p>(in respect of the mine, beneficiation plant, mine work-shop, power and water installation)</p>

9k	Scrutiny of Annual return on mining machineries	FURNISHED	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 9.000 CUM 2 Non Electrical Opencast DUMPER 18.000 TONNE 8 Non Electrical Opencast FRONT END LOADER 0.900 CUM 1 Non Electrical Opencast PUMPS (ELEC.) 60.000 L/MN 1 Electrical Opencast
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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
Rule 44(1)	23-JUN-21	28-JUL-21			
MCDR17 Rule 55(1) (3)	23-JUN-21	28-JUL-21			

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines