

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KATNI/LST-236

Mine code : 38MPR47069

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : KRISHNA MURARI MINING ENGINEER
Official with
Designation
- (iv) Date of Inspection : 09-FEB-20
- (v) Prev.inspection date : 06-FEB-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SALAIYA PAHARI (4.690 H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : SALAIYA PAHARI
Taluka : V. GARH
Post office : DIWAN SIDING
Pin Code :
FAX No. : 07674-232580
E-mail : snsmhr@sancharnet.in
Phone : 07674- 232042, 232089
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 16-DEC-94
- (h) Weekly day of rest : SUN
2. Address for : SHRI MADAN LAL GROVER
correspondance : CIVIL LINES
KATNI (M.P.) 483501
3. (a) Lease Number : MPR0691
- (b) Lease area : 4.69
- (c) Period of lease : 20
- (d) Date of Expiry : 12-MAY-14
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

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

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

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	05-NOV-08
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12-JUN-13
		Renewal under rule 24 MCR1960	28-AUG-13
		MP modif under 17(3) MCR 2016	25-JUN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	IT WAS PROPOSED TO DRILL 4 CORE BOREHOLES IN TH EYEAR 2019-20	TILL THE DATE OF INSPECTION THE SAID EXPLORATION WAS NOT CARRIED OUT	
1b	Exploration over lease area for geological axis 1 or 2	ML ARAE EXPLORED UPTO G2 LEVEL	ML AREA EXPLORED UPTO G2 LEVEL 4.69 HECT	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT MENTIONED	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	ML AREA EXPLORED UPTO G2 LEVEL 4.69 HECT	4.69 HECT EXPLORED UPTO G2 LEVEL NEEDS TO EXPLORE UPTO G1	
1e	Balance reserve as on 01/04/20	AS ON 01.04.2019 122-384846 222-193150 333-810176	AS ON 01.04.2020 122-335576 222-193150 333-810176	
1f	General remarks of inspecting officers on geology, exploration etc			LIMESTONE OF THE AREA BELONGS TO ROHTAS FORMATION OF VINDHYAN SUPER GROUP IN KATNI DIST, LIGHT GREY TO DARK GREY IN COLOUR, MEDIUM TO FINE GRAINED , HARD AND COMPACT, SOME SHALLY PATCHES FOUND AS INTERBEDDED.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	IT WAS PROPOSED TO DEVELOP THE QUARRY NO 2 IN THE NORTHERN PORTION OF THE ML	DEVELOPMENT WORK WAS CARRIED OUT IN THE QUARRY 2 PIT WAS WATERLOGGED DUE TO ADJACENT MINES WATER SEAPAGES	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	IT WAS PROPOSED TO PREPARED AND MAINTAINED SEPARATE BENCHES IN THE SOIL AND IN MINERAL BENCHES	SOIL BENCH IS OF 1-1.5 METER DEPENDING UPON THE THICKNESS OF SOIL IN THE ML, MINERAL BENCHES WERE OF 6-7 METER IN HEIGHT WITH EQUAL WIDTH	
2c	Stripping ratio or ore to OB ratio	1:1.95	1:1.18	
2d	Quantity of topsoil generation in m3	18600 CUM	18450 CUM	
2e	Quantity of overburden generation in m3	20497 CUM	19540 CUM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			DEVELOPMENT WORKING WAS AS PER THE PROPOSAL GIVEN IN APPROVED MINING PLAN

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	SINGLE PIT QUARRY NO 2	SINGLE PIT QUARRY NO 2	
3b	Quantity of ROM mineral production proposed	49968 TONNES	49270 TONNES	
3c	Recovery of sailable/usable mineral from ROM production	80-90 %	80-90 %	

3d	Quantity of mineral reject generation	NO MINERAL REJECT	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NOT PROPOSED	NIL
3f	Quantity of sub grade mineral generation.	NOT PROPOSED	NO SUB GRADE MINERAL GENERATED
3g	Grade of sub grade mineral generation	NOT PROPOSED	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED METHOD PROPOSED	MECHANISED METHOD PROPOSED FOR SEGRAGATION SUCH AS SCREENING
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	DRILLING AND BLASTIGN IS ON CONTCAT BASIS
3k	Provision of mining machineries in mineral benches	PROPOSED	HEMM IS BEING 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	PROPOSED	SUITABLE HEIGHT AND WIDTH OF BENCHES IN SOIL OB AND IN MINERAL IS SUITABLE FOR MINING
3m	Total area covered under excavation/pits	3.00 HECT	2.45 HECT
3n	Ore to OB ratio for the pit/mine during the year.	1:1.195	1:1.18

3o	Total area put in use under different heads at the end of year	4.50 HECT	3.05 HECT
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 9960 tonnes 2015-16 - 9930 tonnes 2016-17 - 10490 tonnes 2017-18 - 11130 tonnes 2018-19 - 10000 tonnes 2019-20=49968V TONNES	2014-15 - 9930 tonnes 2015-16 - 9896 tonnes 2016-17 - 9978 tonnes 2017-18 - 9980 tonnes 2018-19 - 9980 tonnes 2019-20=49270 TONNES 2018-19=9980 TONNES
3q	General remarks of inspecting officers on method of mining etc.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	IT WAS PROPOSED TO SEPARTELY DUMPS SOIL AND MINERALS	MINERAL AND SOIL AND WASTE ARE DUMPED SEPARAETLY	
4b	Location of topsoil, OB and mineral reject dumps	IN TH ENORTHERN PART OF THE ML AREA , IN THE EXTREME EASTERN PART AND IN THE EXTREME NORTH CENTRAL PART OF THE AREA	THERE ARE FOUR DUMPS AVAILABLE IN THE GIVEN LOCATIONS 2-SOIL DUMPS IN THE EASTERN AND CENTRAL PART OF THE LEASE AREA, 2-WASTE/OB DUMPS ARE IN THE NORTHERN PORTION OF THE LEASE AREA	
4c	Number of dumps within lease area and outside of lease area	FOUR	2-SOIL DUMPS 2-OB/WASTE DUMPS	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	PARTLY INSIDE THE UPL	PARTLY INSIDE THE UPL	
4e	Number of active and alive dumps.	FOUR ACTIVE DUMPS	ALL FOUR DUMPS ARE ACTIVE AND ALIVE	
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			RETAINIGN WALL AND GARLAND DRAINS ARE NOT PROPOSED DUE TO LESS HEIGH OF DUMPS 2-3 METER

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 THE MINERAL IS PROPOSED	FULL EXTRCATION OF THE MINERAL IS IN PROCESS DEPTH WISE DEPOSITION OF MINERAL IS HUGE	
5b	Area under backfilling of mined out area	NOT PROPSOED	BACKFILLING IN THE ML AREA IS NOT PROPOSED AS THE FULL EXTACTION NOT DONE YET	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	PLANTTAION OVER THE 7.5 METER BARRIER ZONE	SOIL IS BEING USED IN PLANTATION OVER 7.5 METER BARRIER ZONE	

5d	Total area fully reclaimed and rehabilitated	NOT PROPOSED	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			BACKFILLING OF THE PITS / QUARRIES DEPEND ON THE FULL EXTRCATUION OF THE MINERAL LIMESTONE OF THE ML 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) .	NOT PROPOSED	NIL FULL EXTRCATION OF THE MINERAL NOT DONE YET THEREFORE THE REHABILITATION WORK NOT PROPOSED	
6c	afforestation done (ha).	ONLY OVER THE 7.5 METER BARRIER ZONE 250 SQ METER	OVER 7.5 METER BARRIER ZONE	
6d	No. of saplings planted during the year	50 NOS	20 NOS	
6e	Cumulative no .of plants	250 NOS	50 NOS	
6f	Any other method of rehabilitation	NOT PROPOSED	NIL	
6g	Cost incurred on watch and care during the year	NOT PROPOSED	5000 INR	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADE WISE SORTING PROPOSED	SCREENING METHOD USED FOR GRADE WISE SORTING	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL METHOD	SCREENING USED AND MECHANICAL METHOD	
7c	Different grade of mineral sorted out at mines.	NOT PROPSOED	NIL	
7d	Any beneficiation process at mines .	NOT PROPSOED	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ONLY SCREENING METHOD IS IN USED FOR SEGRAGATION OF MINERAL FROM WASTE

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	PROPSOED	SEPARATE REMOVAL OF SOIL IS BEING DONE AND USED IN PLANTATION OVER THE 7.5 METER BARRIER ZONE	
8b	Concurrent use or storage of topsoil	PROPOSED IN PLANTATION	SOI IS BEING USED IN PLANTATION	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	PROPOSED	AS PER PROPOSAL SEPARATE DUMPS FOR SOIL AND WASTE WITHIN THE ML AREA	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	PROPOSED	AFTER FULL EXTRACTION OF MINERAL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	PROPOSED	AS PER PROPOSAL IN PLAN	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	PROPOSED	AS PER APPROVED MINING PLAN	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	PROPOSED	WATER TANKER IS BEING USED FOR MINE ROADS DUST CONTROL	
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	AR & MR SUBMITTED	AR & MR SUBMITTED	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge KRISHNA MURARI
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<p>Already exploited & abandoned by opencast (O/C) mining 0.000 0.100 0.100 (ii) Covered under current (O/C) Workings 0.000 2.440 2.440 (iii) Reclaimed/Rehabilitated 0.000 0.020 0.020 (iv) Used for waste disposal 0.000 1.760 1.760 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.050 0.050 (vi) Other Purpose (Green belt) 0.000 0.088 0.088 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000</p>
9d	Scrutiny of Annual return on afforestation	<p>Number of trees planted during the year (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 20 0 (ii) Survival rate in percentage 80.00 0</p>

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Rejects for Limestone 4.2 Opencast 4.2(B) (ii) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0 4.3 Underground 4.3(i) Mineral Rejects generated with grades (tonnes) a. Quantity 0 b. Grade 0
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 49270.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	EX MINE PRICE 329.00 COST OF PRODUCTION Item Cost Per Tonne (in) (i) Direct Cost 83.91 (a) Exploration 0.00 (b) Mining 83.91 (c) Beneficiation (Mechanical Only) 0.00 (ii) Over-head cost 58.86 (iii) Depreciation 6.07 (iv) Interest 0.00 (v) Royalty 80.00 (vi) Taxes 31.23 (vii) Dead Rent 0.00 (viii) Others (specify) Maintenance etc. 12.58 Total 272.65
9h	Scrutiny of Annual return on fixed assets	NOT FURNISHED Value of Fixed Assets (in) 0

9k	Scrutiny of Annual return on mining machineries	<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>FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 10.000 TONNE 4 Non Electrical</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