

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

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-285

Mine code : 38MPR47128

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manoj Kumar Roy (Mines Head)
Official with
Designation
- (iv) Date of Inspection : 16-DEC-22
- (v) Prev.inspection date : 01-OCT-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SALAIYA PAHARI (4.12 HA)**
- (b) **Registration NO.** :
- (c) Category : A
- (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. : NA
E-mail : ranjan_grover4@yahoo.com
Phone : 07622-404992
- (f) Police Station :
- (g) First opening date : 22-JUL-09
- (h) Weekly day of rest :
2. Address for : SHRI MADAN LAL GROVER
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR2520
(b) Lease area : 4.12
(c) Period of lease : 50
(d) Date of Expiry : 21-JUL-59
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: 07622-404992.
FAX :N. A.

Owner : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:07622404992.
FAX : N. A.

6. Date of approval of Mining : MP/Katni/Limestone/MPLN/G-25/08-09 25-MAR-09
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988MP 26-SEP-14
modif under 17(3) MCR 2016 18-JUN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	G2-2.75 ha	
1e	Balance reserve as on 01/04/20	Not specified	111-411738 T 121-681150 T	
1f	General remarks of inspecting officers on geology, exploration etc			<p>The occurrence of Limestone in the lease area is stratigraphically controlled and is associated with</p> <p>Semri group of Vindhyan super group. Rocks of this formation comprise of shale, Limestone and dolomite. These rocks are structurally disturbed & show northerly dip of 40-45° with average dip of</p> <p>25° and general ENE-WSW trend. The lease area belongs to Vindhyan super group in Rohtasgarh</p> <p>Limestone of Semri group.</p>

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed in quarry/pit 1 located in North western Block towards north & The quarry/pit 2 in NE block advanced towards east south.	Development work done as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for Overburden & Mineral proposed	Separate bench for Overburden & Mineral proposed	
2c	Stripping ratio or ore to OB ratio	1:1.0	1:0.2	
2d	Quantity of topsoil generation in m3	8136 m3	7500 m3	
2e	Quantity of overburden generation in m3	9694 m3	9744 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The quarry 1 was being developed towards north. The OB removal were being carried out in two benches. The 1st was in soil of average height 6m and the 2nd in shale of average height 4m. The quarry 2 was being developed towards east & south.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	49318 T	47370 T	

3c	Recovery of sailable/usable mineral from ROM production	80%	80%
3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil
3g	Grade of sub grade mineral generation	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not done
3j	Provision of drilling and blasting in mineral benches	Deep Hole drilling & blasting proposed	Deep Hole drilling & blasting done
3k	Provision of mining machineries in mineral benches	Proposed	FRONT END LOADER -1.20 CUM - 1 Nos DUMPER - 16.000 TONNE - 4 Nos DUMPER -10.000 TONNE -4 Nos WATER TANKER - 5000.000 LITRE - 1 Nos Air Compresor 210.00 Cum/MN- 1 Nos Rock Dril 1 (Electric) - 48 MM -1 Nos
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Details of Benches In ore In OB/Waste (i) Number of Benches Mechanised 1 2 (ii) Average height (meters) Mechanised 6 5 (iii) Depth of the deepest working from adjacent ground (Meters) Mechanised 7 5

3m	Total area covered under excavation/pits	Not specified	1.35 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.0	1:0.2	
3o	Total area put in use under different heads at the end of year	Not specified	2.65 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 49976 T 2018-19 - 49976 T 2019-20 - 49947 T 2020-21 - 49990 T 2021-22 - 49318 T	2017-18 - 51830 T 2018-19 - 49920 T 2019-20 - 43000 T 2020-21 - 49856 T 2021-22 - 47370 T	
3q	General remarks of inspecting officers on method of mining etc.			The quarry 1 was being developed towards north. The OB removal were carried out in two benches. The Quarry 2 in NE block was being advanced towards east and south.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seprate dumping of waste and soil in the ML proposed	Seprate dumping of waste and soil in the ML done	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump in the eastern part of the ML area	Waste dump found located in the eastern part of the ML area	
4c	Number of dumps within lease area and outside of lease area	01 within lease	01 within lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	

4e	Number of active and alive dumps.	one active waste dump	one active waste located in the eastern part of the ML area	
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	Garland drain: 40m *1*1	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	Garland drain: 40m *1*1	
4j	Number of settling ponds	not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			OB Dumping being carried out in the lease area.

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 proposed	Full extraction of the mineral adopted	
5b	Area under backfilling of mined out area	Not specified	Not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	plantation	Generated soil used in plantation over the barrier zone and in the near by adjacent mines of same lessee	
5d	Total area fully reclaimed and rehabilitated	Not specified	0.18 ha	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Full extraction of mineral not done yet, the area is yet to be fully mature enough for complete backfilling & reclamation.
----	--	--

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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha).	Not specified	0.35 ha	
6d	No. of saplings planted during the year	100 nos	200 approx.	
6e	Cumulative no .of plants	Not specified	400 approx.	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance being carried by and large as per approved proposals.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch.	ROM is being dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method	mechanical screeners are being used for segregation	
7c	Different grade of mineral sorted out at mines.	proposed	SMS and Cement Grades	
7d	Any beneficiation process at mines	Not proposed	Only screening is being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being dispatched and no beneficiation is adopted in the lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	generated soil is being used in plantation over the barrier zone and adjacent ML of same lessee	
8b	Concurrent use or storage of topsoil	For plantation	Used in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	separate dumps located in the ML in the eastern side of the ML area	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	Backfilling adopted	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	There are trees of Mahua, Babool, Sejha and Karanj in the eastern and western side of the MI area.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	proposed	Done with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty needs improvements.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	AR and MR submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager KRISHNA MURARI Mining Engineer in charge KRISHNA MURARI	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	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 0.360 0.360 (ii) Covered under current (O/C) Workings 0.000 1.178 1.178 (iii) Reclaimed/Rehabilitated 0.000 0.180 0.180 (iv) Used for waste disposal 0.000 1.180 1.180 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.000 0.000 (vi) Other Purpose (GREEN BELT) 0.000 0.354 0.354
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 220 nos (ii) Survival rate in percentage 80.00
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	SMS GRADE-520 t (PROD) CEMENT GRADE- 46850t (PROD) SMS GRADE- 697.923 t (DISPATCH) CEMENT GRADE- 46739.447 t (DISPATCH)
----	---	-------	---

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	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 177.923 520.000 697.923 0.000 315.00 (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 46850.000 46739.447 110.553 315.00
9h	Scrutiny of Annual return on fixed assets	Nil	Nil
9k	Scrutiny of Annual return on mining machineries	GIven	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 16.000 TONNE 4 Non Electrical Opencast DUMPER 10.000 TONNE 4 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast

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 :

(ROBERT SIMON C)

Indian Bureau of Mines