

I/12752/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-236

Mine code : 38MPR47069

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manoj Kumar Roy, Representative of lessee & Mini
Official with
Designation
- (iv) Date of Inspection : 12-JUN-23
- (v) Prev.inspection date : 01-NOV-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SALAIYA PAHARI (4.690 H)**
- (b) **Registration NO.** : **IBM/744/2011**
- (c) **Category** : **A Mechanised**
- (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. : **07622483501**
- E-mail : **ranjan_grover4@yahoo.com**
- Phone : **07622405474**
- (f) **Police Station** : **VIJARAHHOGARH**
- (g) **First opening date** : **16-DEC-94**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **SHRI MADAN LAL GROVER**
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**

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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

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	Nil	No deviation
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Nil	Already explored under G1 level after completion of four boreholes based on proposals against the year.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable as no exploratory work carried out during the year under review.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per proposal there was no balance area for exploration against the year under review.	Not Applicable as there was no balance area for exploration.	
1e	Balance reserve as on 01/04/20	111-0 122-384846	111-0 122-205918	Reserves of entire lease area were fall under G2 level at the time of approval of mining plan have explored under G1 level by putting proposed four boreholes but geological Study Report have not been prepared and submitted to the RO, Jabalpur resulting violation of rule 12(4B) has been pointed out through violation letter dated 30/06/2023

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1f	General remarks of inspecting officers on geology, exploration etc	At the time of approval of mining plan entire lease area of 4.69hect was under G2 level later on lease area had explored under G1 level by putting proposed four borehole. GSR still not submitted. Violation of rule 12(4B) has been pointed out through violation letter dated 30/06/2023.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2022-23, it is proposed to develop the 362mRL bench of quarry -2 towards east with leaving northern and southern statutory barrier zone on the area.	Mining operation on the date of inspection was found closed. Bottom of the pit was found waterlogged. Reportedly extraction of mineral had been carried out from the proposed site.	-
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil, OB and mineral proposed.	soil bench is of 1-1.5 meter & mineral benches were of 6-7 meter in height(approx..)	
2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.254	-
2d	Quantity of topsoil generation in m3	0	0	
2e	Quantity of overburden generation in m3	3000cum	3050cum	-

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Common boundary line permission for the four adjoining leases of the lessee acquired from DGMS expired on 03/05/2022. In approval of mining plan common boundary line permission was taken into account for deciding UPL. As permission is not valid after 03/05/2022 so each lease have to be own UPL with 7.5m barrier zone, as per statute. Violation in this regard have been pointed out through violation of rule11(1)
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	There are three pits namely Quarry 1,2 & 3 in the lease area out of which proposal for the exploitation of mineral from thquarry no. 2 was made.
3b	Quantity of ROM mineral production proposed	30000tonne	29888tonne	No deviation
3c	Recovery of sailable/usable mineral from ROM production	800%	80%	-
3d	Quantity of mineral reject generation	Nil	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	not applicable as there is no mineral reject generation.	

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3f	Quantity of sub grade mineral generation.	Nil	Nil as there is no sub grade mineral generation envisaged.	
3g	Grade of sub grade mineral generation	not proposed	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	manual sizing as well as through Jaw crusher located in adjoining lease.	As proposed.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed.	Not carried out.	-
3j	Provision of drilling and blasting in mineral benches	proposed with blast design of 2.4 to 2.5mX2.0 to 2.2mX2.8 to 2.9m (SecingXBurden XDepth of Hole)	Drilling & blasting carried out in contract basis as per approved blast design ,	
3k	Provision of mining machineries in mineral benches	Proposed	FRONT END LOADER 1.200 CUM 1 Non Electrical DUMPER 16.000 TONNE 4 Non Electrical DUMPER 10.000 TONNE 1 Non Electrical WATER TANKER 5000.000 LITRE 1 Non Electrical AIR COMPRESSOR 210.000 CUM/MN 1 Non Electrical	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	07 nos of benches of average ht 6-8 m(approx.)	-
3m	Total area covered under excavation/pits	2.79hect	2.77hect	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25	1:0.254	-

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3o	Total area put in use under different heads at the end of year	4.5hect	4.5hect	
3p	Production of ROM mineral during the last five year period as applicable	2018-19=10000 2019-20=49968 2020-21=49950 2021-22=49980 2022-23=30000	2018-19=9980 2019-20=49270 2020-21=49791 2021-22=49978 2022-23=29888	There is no deviation in production over last five years.
3q	General remarks of inspecting officers on method of mining etc.			Opencast mechanised method of mining was adopted in the lease area. All operation of mining such as development, winning of ore, loading and transport is being carried out by utilising HEMM.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of top soil and OB proposed.	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	In the northern part of the ml area , in the eastern part of the ml area and in the north central part of the area & southern part of lease	03 topsoil and 02 OB dump in maintained in the quarry. However there was no proposal for top soil generation during the year under review. Reportedly there was no generation of topsoil during the year.	
4c	Number of dumps within lease area and outside of lease area	05 dumps within lease	05 dumps within lease	
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.	05	05	

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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.	Garland drain all along dump proposed	Garland drain upto certain extent along dump maintaine.	
4i	Length of Retaining wall or garland drain all along dumps	proposed	Garland drain upto certain extent along dump maintaine.	
4j	Number of settling ponds	not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Garland drain along dumps upto certain extent maintained. Needs further improvement. for which proper proposal may be inserted based on current situation in frsh mining plan with next five years proposal likely to be submitted in mobnth of October,2023.

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.	There is no backfilling proposal in approved mining plan as full extraction of mineral from mined out area are not proposed.	Pit is not matured for backfilling so for not started.	
5b	Area under backfilling of mined out area	Not proposed	Nil	-

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There were no proposal for top soil removal.	Not applicable against the year under review as extraction of mineral from bottom bench was proposed as well carried out without advancement of top soil removal.	
5d	Total area fully reclaimed and rehabilitated	Not proposed	0.04 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling of the pits / quarries depend on the full extraction of the mineral limestone of the ML area. Upto full depth of mineralisation not reached. Phased restoration, reclamation and rehabilitation of lands affected by mining operations is being carried out by adopting Backfilling of waste/OB.

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.	As on date PMCP report received.	
6b	Area available for rehabilitation (ha) .	Not proposed	0.04ha	
6c	afforestation done (ha).	Not proposed	0.04ha	
6d	No. of saplings planted during the year	Not proposed	120	
6e	Cumulative no .of plants	Not proposed	660	
6f	Any other method of rehabilitation	Not Proposed	Not adopted.	

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6g	Cost incurred on watch and care during the year	Not Proposed	Not Available
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	Not Applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed.	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

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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)	proposed	As per proposal.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Pit is not reached upto ultimate pit depth. resulting PMCP activities like backfilling of mined out area, stablisation of benches etc work are yet to be started. However about 0.04hect mbroken area hae reclaimed and rehabilitated so far.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	30000tonne	29667 tonne cement grade.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual as well as mechanised grade wise sorting proposed,	As per proposal.	
7c	Different grade of mineral sorted out at mines.	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	Not adopted.	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No beneficiation process at mines carried out.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed as bottom bench of mineralisation were proposed for the exploitation of mineral during the year under review.	Not application as there was no top soil at the siter exploitation of mineral reportedly carried out.	
8b	Concurrent use or storage of topsoil	Not proposed as at the site salected for exploitation of mineral there was no top soil.	Reportedly mineral extraction carried out from the site salected for mining against the year.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	During the year only waste rock generation was envisaged in the approved mining plan. Reportedly dumping of waste rock done as per approved proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for dumping	Reportedly dumped over on proposed dump.	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is no specific approved proposal for reclamation and rehabilitation of pit and dumps .	There is no effective reclamation and rehabilitation work of neither pits nor dumps except a small amount of work.	matured for reclamation and rehabilitation. Existing dumps are now become mature to stabilised. Effective proposal for stabilisation of these dumps may be incorporated in the mining plan likely to be submitted upto 01/10/2023 for process of approval.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	As per approved mining plan	
8g	Survival rate	90%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinklings were evidenced on the haul roads to controll airborn dust..	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area needs improvement.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	On Line Monthly Returns upto May,2023 and Annual Return for the year 2022-23 had received.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer in charge Manoj Kumar Roy Geologist in charge SHUBHAM MISHRA	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	(i) Already exploited & abandoned by opencast (O/C) mining 0.1hect (ii) Covered under current (O/C) 2.7hect (iii) Reclaimed/Rehabilitated 0.35hect (iv) Used for waste disposal 0.85hect (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.050hect (vi) Other Purpose (Green belt) 0.25	Area claimed as rehabiitated are not upto the marks. a lot of work is remains there.
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 120 (ii) Survival rate in percentage 80.00 No. of trees available =96	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	nil quantity	As per envisagement.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM Opening stock (in tonne), -0 Production (in tonne), -29888 tonne Closing stock (in tonne)-0 Graded Ore Opening stock (in tonne), -2.3614tonne Production (in tonne), -29888 tonne Dispatch -29667tonne Closing stock-223tonne Closing stock (in tonne)	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex Mine Price and Sale value both Rs.375/33	Data checked and found almost correct.
9h	Scrutiny of Annual return on fixed assets	Given	Rs. 1177348/	On lower side

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9k	Scrutiny of Annual return on mining machineries	Given	FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 4 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast AIR COMPRESSOR 210.000 CUM/MN 1 Non Electrical Opencast ROCK DRILL (ELEC.) 32.000 MM 1 Non Electrical Opencast
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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
MCDR17 Rule 11(1)	30-JUN-23				
Rule 12(4)	30-JUN-23				
Rule 27(2)	30-JUN-23				

Date :**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines