

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** MP/KTN/LST-82

**Mine code :** 38MPR18066

- (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 : 13-SEP-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SALAIYA PAHARHAI(9.84HEC)**
- (b) **Registration NO.** : **IBM/744/211**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : SALAIYA PAHARHAI  
Taluka : VIJRASHIVGARH  
Post office : DIWAN SIDING  
Pin Code : 483880  
FAX No. : 07622-405474  
E-mail : ranjan\_grover4@yahoo.com  
Phone : 07622-52352
- (f) Police Station :
- (g) First opening date : 12-FEB-83
- (h) Weekly day of rest : SAT
2. Address for : SHRI MADAN LAL GROVER  
correspondance CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0206  
(b) Lease area : 9.84  
(c) Period of lease : 50  
(d) Date of Expiry : 03-MAY-32
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	:	Existing rule 11 MCDR1988	16-AUG-99
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	20-OCT-04
		Mining Scheme rule 12 MCDR1988	23-FEB-12
		Mining Scheme rule 12 MCDR1988	30-SEP-14
		MP modif under 17(3) MCR 2016	17-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	111-598772 122-675344	111-601198 122-675344	Remaining area 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 remaining area of 5.15hect was under G2 level 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.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2652640-2652710)N to 447330 to 447500)E in SW block and 2652860-2653000)N to (447540 to 447630)E in NE block	Upto 2652600N in in range of Easting as proposed i.e. between 447330 to 447500 Ein West South West block and upto 2653025 N in a rtange of easting i.e.447480 to 447630	Pit advancement had been done more than the proposed onewhich attract violation of rule 11(1). Acc0rdingly violation of rule 11(1) pointed out through VL dated 30/06/2023.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in top soil , OB and in Mineral proposed	Separate benches in top soil , OBV and in Mineral found maitained.	No deviation towards maintaining of separate benches.
2c	Stripping ratio or ore to OB ratio	1:0.64	1:0.70	No rermarkable difference, almost as per proposal.
2d	Quantity of topsoil generation in m3	5400cum	5250cum	No deviation
2e	Quantity of overburden generation in m3	7382cum	7600cum	No deviation

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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	Two	Two	-
3b	Quantity of ROM mineral production proposed	49825tonne	49700tonne	Almost as per proposal.
3c	Recovery of sailable/usable mineral from ROM production	80%	-As envisaged in approved document.	-
3d	Quantity of mineral reject generation	None	None	-
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	-

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	-
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	Proposed with blast design of 2.4 to 2.5mX2.0 to 2.2mX2.8 to 2.9m ( SpacingXBurden XDepth of Hole)	As per proposal	No deviation
3k	Provision of mining machineries in mineral benches	PROPOSED	FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 3 Non Electrical Opencast DUMPER 10.000 TONNE 3 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	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes.	Height of benches in OB and Mineral were found OK w.r.t machineries deployed in the mine.	
3m	Total area covered under excavation/pits	3.24hect	4.42hect	Comparatively more area have broken which is not as per approved mining plan. Violation of rule 11(1) pointed out for the deviation observed.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.64	1:0.70	-

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3o	Total area put in use under different heads at the end of year	Total 8.0hect	Within 8.0hect	-
3p	Production of ROM mineral during the last five year period as applicable	2018-19=10040 2019-20=49900 2020-21=49796, 2021-22=49793, 2022-23=49825 2020-21=49976	2018-19=9900 2019-20=48120 2020-21=49317 2021-22=49750, 2022-23=49700	
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 topsoil & OB proposed	As per proposal soil and Ob generated during mining operation dumped separately. Further certain part of the top soil and OB generated during mining ooperation simultaneously utilised for backfilling of mined out area available between 2652750N to 2652800N and 447350E to 447575E	Although simultaneous backfilling is not proposed but after explotation of mineral simultaneous backfilling were observed. Simultaneous backfilling appers not objectionable as a fresh MPLN is to be submitted uypto 01/10/2023 i.e. within a period of three months .
4b	Location of topsoil, OB and mineral reject dumps	In north and southern portion of the quarry	01 topsoil and 01 OB dump in Southern statutry barrier zone of South Wester block of lease area 1 OB dump in norther direction from the quarry 2 in eastern block of the lease area..	

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4c	Number of dumps within lease area and outside of lease area	03	03	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL as well ascertain part in statutory barrier zone.	
4e	Number of active and alive dumps.	03	03	-
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	100 m garland drain all along dump in quarry	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	100 m garland drain all along dump in quarry 2	-
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Although simultaneous backfilling is not proposed but after exploitation of mineral simultaneous backfilling were observed. Simultaneous backfilling appears not objectionable as a fresh MPLN is to be submitted upto 01/10/2023 i.e. within a period of three months .

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	full extraction of mineral from mined out area proposed before starting backfilling	Upto proposed depth mininmg operation reached and accordingly backfilling of such mined out area strted in Quarry-1 . Alongwith separate dumping of top soil and OB waste are also utilised for backfilling of mined out area.	Although there is no proposal for backfilling but after exploitation of mineral, adopted practice of backfilling not objected as a fresh mining plan is supposed to be submitted upto 01/10/2023.
5b	Area under backfilling of mined out area	Not proposed	Backfilling in About 50x50m mined out area were seen .	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed for making of bund and separate stacking	soil is being used in making of bund and spreading over backfilled area of mined out portion of the quarry for plantation over the backfilled area.	
5d	Total area fully reclaimed and rehabilitated	0.7ha	0.7ha	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Although there was no proposal for backfilling of mined out area but Phased restoration, reclamation and rehabilitation of lands affected by mining operations is being carried out by adopting Backfilling of waste/OB. A fresh Mining Plan for the next five year period is to be submitted upto 01/10/2023 in which backfilling proposals are to be inserted. keeping viability of simultaneous backfilling of mined out area objection on backfilling has not been raised.
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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.	PMCP report submitted after 30/06/2023
6b	Area available for rehabilitation (ha) .	0.7hect	About 0.6hect	-
6c	afforestation done (ha).	0.26hect	0.04hect	-
6d	No. of saplings planted during the year	400no	40 as per AR,202-23	
6e	Cumulative no .of plants	Not proposed	540	
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 maintained.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	7000cum	6500cum	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	0.2hect	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.4hect	0.04hect	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	any pit not converted as water reservoir.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not adopted.	
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	Not proposed	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly PMCP report submitted. Simultaneous backfilling is in progress in Quarry no. 1.

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**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Dispatches of ROM mineral proposed.	During the year reportedly 49650tonne cement grade limestone dispatched to different consignees	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	not adopted. Mineral produced from the mine dispatched to different consignees without any mineral processing.	
7c	Different grade of mineral sorted out at mines.	Not proposed	Entire mineral produced from the mine is dispatched as a cement grade limestone.	
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 adopted at mines. In fact there is no issue related with mineral conservation. Difinitely availability of high grade limestone is there but that is not separable. However due to such high grade limestone separation of intercalated thin bands of shale with limestone band is not required as overall grade of limestone become marketable in cement manufacture or other similar uses.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed 5400cum	Record not maintained but reportedly entire topsoil generated during mining operation utilised in topping of backfilled area and in plantation purpose and remaing part dumped in yearmarked area.	
8b	Concurrent use or storage of topsoil	Proposed both storage as well as in making of bund. Details area as follows;- Storage 4048cum bund 2000cum	Reportedly soil generated during mining operation is utilised for topping of backfilled area and in making of bund all along statutory barrier zone of south western block of the lease area.	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Reportedly entire OB waste generated during mining operation utilised in backfilling of mined out area. In fact there is no need of external dumping. Now pit is so advanced that entire OB may be utilised for backfilling of mined out area.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed.	As pit is advanced and voids are created in quarry 1 so preferably OB generated during mining operation utilised in backfilling such voids.	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of mined out area proposed. Restoration of dumps not proposed	backfilling of mined out area adopted. All the old dumps are within mineralised area, These dumps have to be rehandled for the exploitation of mineral beneath there.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan	-
8g	Survival rate	80%	almost 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on roads to control airborne dust were observed.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is well maintained.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns			

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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	
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 00 (ii) Covered under current (O/C) 3.500 (iii) Reclaimed/Rehabilitated 0.200 (iv) Used for waste disposal 2.4 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.100 (vi) Other Purpose (Green belt) 0.600	More or less given land use pattern are acceptable.
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 40 (ii) Survival rate in percentage 80.00	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM- Opening stock (in tonne), -0 Production (in tonne), -49700tonne Closing stock (in tonne)-0 Graded Ore Opening stock (in tonne), -40.24tonne Production (in tonne), -49700tonne Dispatch -49650tonne Closing stock-90.24tonne Closing stock (in tonne)	Data furnished in the AR were found almost correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Rs.388/26	Data furnished in the AR were found almost correct.

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9h	Scrutiny of Annual return on fixed assets	Given	Rs. 2121896/-	On lower side.
9k	Scrutiny of Annual return on mining machineries	Given	FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 3 Non Electrical Opencast DUMPER 10.000 TONNE 3 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	OK

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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
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