

MCDR-MiFLOLST/2/2023-JBP-IBM\_RO\_JBP  
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

1/18106/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/LST-124

Mine code : 38MPR35058

- (i) Name of the Inspecting : **G006** ) **ABHISHEK RANJAN GAUTAM**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :  
Official with  
Designation Shri Amit Rai , (Lessee)
- (iv) Date of Inspection : 18-AUG-23
- (v) Prev.inspection date : 06-SEP-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PAHARI-III**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : PAHARI  
Taluka : MAIHAR  
Post office : PAHARI  
Pin Code : 485771  
FAX No. : N. A.  
E-mail : N. A.  
Phone : 07674-232032 (O), 232094 (
- (f) Police Station : Maihar
- (g) First opening date :
- (h) Weekly day of rest : TUE
2. Address for : **SHRI Amit RAI & Ansuman**  
correspondance : **Rai (Legal heirs)**  
  
PROP. M/S RAI LIME CO.  
P.O. MAIHAR, DIST. SATNA (M.P.) 485771
3. (a) Lease Number : MPR0383
- (b) Lease area : 6.54
- (c) Period of lease : 20
- (d) Date of Expiry : 29-Nov-31
4. Mineral worked : LIMESTONE Main

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## 5. Name and Address of the

Lessee : RAI LIME CO.  
 PROP.OM PRKESH RAI P.O.  
 MAIHAR SATNA MADHYA  
 PRADESH  
 Phone:07674-232032 (O), 232094 (R)  
 FAX :N. A.

Owner : RAI LIME CO.  
 PROP.OM PRKESH RAI P.O.  
 MAIHAR SATNA MADHYA  
 PRADESH  
 Phone: N. A.  
 FAX : N. A.

## Mining Engineer

Name : Shubham Nikhar  
 Qualification : B.E.(MINING)  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	06-JUN-98
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	31-AUG-07
	:	Mining Scheme rule 12 MCDR1988	27-AUG-14
	:	Mining Scheme rule 12 MCDR1988	10-JUN-16
	:	MP review under 17(1) MCR 2016	01-MAR-21

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Lease area explored up to G1 level	Lease area explored up to G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Lease area explored up to G1 level	Lease area explored up to G1 level	
1e	Balance reserve as on 01/04/20		As on 01/04/2023 - 155350 tons	
1f	General remarks of inspecting officers on geology, exploration etc			lease area is part of bahnder group of rocks of vindhyan super group, medium to hard limestone in nature, fine grained, compact

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to do developmnet work towards northern side of the ML area	development work carried out in the northern side of the ML as per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	it was proposed to develop and maintained 1 soil bench of 2-3 m, limestone-5-6 m	1 soil bench of 3 meter, liemstone / mineral bench of 6 meters	
2c	Stripping ratio or ore to OB ratio	1:2.0	1:2.0	
2d	Quantity of topsoil generation in m3	19740 cubic meter	18000 cubic meter	

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2e	Quantity of overburden generation in m3	30020 cubic meter	2460 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development done as per proposal.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pit	Two pit	
3b	Quantity of ROM mineral production proposed	60200 Tons	60150 Tons	
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.	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 for segregation	Mechanised method adopted for segregation (screening)	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not applicable	

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3j	Provision of drilling and blasting in mineral benches	Proposed	Drilling and blasting by Jack hammer & tractor trolly	
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	Suitable	bench height and width are maintained as per proposal.	
3m	Total area covered under excavation/pits	3.0 Hect	2.8 Hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:2.0	1:2.0	
3o	Total area put in use under different heads at the end of year	4.0 Hect	3.9 Hect	
3p	Production of ROM mineral during the last five year period as applicable	2017-18= 65100 t 2018-19=40103 t 2019-20 = 53097 t 2020-21 = 66710t 2021-22 =58800t 2022-23 = 60200 t	2017-18=150 t 2018-19=39810 t 2019-20=52560 t 2020-21 = 63200t 2021-22 =58800t 2022-23 = 60150 t	
3q	General remarks of inspecting officers on method of mining etc.			Open cast mechanised mine working proposed by using Excavator/JCB & dumper combination with shallow drilling & blasting using jack hammer.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	Separate dumping of OB and mineral reject is being maintained
4b	Location of topsoil, OB and mineral reject dumps	proposed in the north west portion of the ML	OB and waste is being dumpes in the north west portion of the ML
4c	Number of dumps within lease area and outside of lease area	two dumps within the lease area	two dumps are present within the lease area
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.	02 dumps	02 dumps
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.	No proposal	retaining wall already prepared
4i	Length of Retaining wall or garland drain all along dumps	No proposal	around 300 to 350 meters retaining wall already prepared
4j	Number of settling ponds	Not Proposed	Nil
4k	Specific comments of inspecting officer on waste dump management		waste and mineral are being stacked separetly, retainign wall prepared around the dumps for protectice measures

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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 mineral proposed	Full extraction of mineral in process	

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5b	Area under backfilling of mined out area	Backfilling proposed in 7.5 meter barrier zone	Backfilling not done as proposed	Violation pointed out under rule 11(1).
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Top Soil is being used in planttaion	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Full extraction of mineral is proposed. No area fully extracted, no backfilling done

## 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).	Submitted	Submitted	
6b	Area available for rehabilitation (ha) .	Not Proposed	Not Proposed	
6c	afforestation done (ha).	0.50 hect	0.10 hect	
6d	No. of saplings planted during the year	100 saplings	Not done	Violation pointed out
6e	Cumulative no .of plants	Not Specified	Not Specified	
6f	Any other method of rehabilitation	Not Proposed	Not Proposed	
6g	Cost incurred on watch and care during the year	Not Furnished	Not Furnished	

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Proposed	Nil	Area of the eastern part which is common boundary of other lease was proposed to be backfilled in the barrier zone. But, backfilling was not found as per proposal. violation pointed out for the same.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.2 Hect	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Proposed	Not Proposed	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Not Proposed	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Not Proposed	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	Not Proposed	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.20 hect	Nil	



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6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation over the area	Not done as per proposal	Violation pointed out under Rule 11(1)
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Proposed backfilling not done. Violation pointed out under rule 11(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	Dispatch proposed after screening at mine site	ROM is being dispatched after screening at mine site	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method	screening method is being used for segregation	
7c	Different grade of mineral sorted out at mines.	not proposed	Not applicable	
7d	Any beneficiation process at mines .	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being screened at mine site before dispatch

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top soil is being used in plantation	
8b	Concurrent use or storage of topsoil	plantation proposed	top soil is being used in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	as per proposal separate dumping is being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	as per proposal depending upon the fully extracted area and waste generation	Area not matured except 7.5 m barrier zone.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	Backfilling & plantation is not done as per proposal	Violation pointed out for the same under rule 11(1) of MCDR-2017
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	Plantation done in the lease area but quantity is less.	Violation pointed out for the same
8g	Survival rate	Not applicable	Not applicable	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 200 sapling/year in further approval of documents

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR of Aug-23 and AR of 2022-23 has been submitted	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Name of the Mining Engineer: Shri Shubham Nikhar Geologist: Shri Brijesh Prasad Mishra	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		(i) Already exploited by opencast (O/C) mining 0.9002.160 Hect (ii) Covered under current (O/C) Workings 2.160 Hect (iii) Reclaimed/Rehabilitated bt plantation 0.400 Hect (iv) Used for waste disposal 0.000 Hect (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.100 Hect (vi) Other Purpose (GREE BELT) 0.700 Hect (vii) Work done under progressive mine closure plan during the year 0.420 Hect	
9d	Scrutiny of Annual return on afforestation		No New plantation observed in the lease area	Violation pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		No any mineral reject generated during the year.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		ROM closing stock - 233.550 Tonnes Cement Grade	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Ex mine Price : Rs.391.70, Cost of production = Rs. 342.61	
9h	Scrutiny of Annual return on fixed assets		Value of Fixed Assets* (. 10071824)	As per annual return 2022-23

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9k	Scrutiny of Annual return on mining machineries	FRONT END LOADER - One DUMPER 10 TONNE - One DUMPER 16 TONNE - One WATER TANKER 20000LITRE - One PUMPS (NON-ELEC.) - One
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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

**Violation pointed out****Rule 11(1) of MCDR 2017****Rule 31(4) of MCDR 2017****(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines