

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-124

Mine code : 38MPR35058

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 06-SEP-22
- (v) Prev.inspection date : 11-FEB-20

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 (I)
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : TUE
2. Address for : SHRI OM PRAKASH RAI
correspondance 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-DEC-01
4. Mineral worked : LIMESTONE Main

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 : AMIT KUMAR RAI,Part Time
 Qualification : B.E.(MINING)
 Appointment/ : 14-JAN-02
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	NA	
1b	Exploration over lease area for geological axis 1 or 2	One Bore hole was proposed for exploration up to G1 Level	Up to G2 Level area explored. No exploration reported in the RY 2021-22	Violation pointed out under rule 11(1) of MCDR 2017 for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Not done	
1d	Balance area to be explored to bring Geological axis in 1 or 2	6.543 Hect area to be explored under G1 Catagory	NIL	Violation pointed out under rule 11(1) of MCDR 2017 for the same.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01/04/2022 122 - 245496 Tonnes	
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	develpment work carried out in the northern side of the ML as per proposal	Mine development is lagging from the approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017

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	1:2.1	NIL	Mine development is lagging from the approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
2d	Quantity of topsoil generation in m3	21000 m3	NIL	Mine development is lagging from the approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
2e	Quantity of overburden generation in m3	28580 m3	NIL	Mine development is lagging from the approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development is lagging from the approved document. Violation pointed out for the same under rule 11(1) of MCDR-2017

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two pits	two pits	

3b	Quantity of ROM mineral production proposed	58800 Tonnes	58800 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	80 %	75-80%	
3d	Quantity of mineral reject generation	Nil-0	Nil-0	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Nil-0	Nil-0	
3g	Grade of sub grade mineral generation	NA	NA	
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	
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 not maintained as per proposal.	Violation pointed out for the same under rule 11(1) of MCDR-2017

3m	Total area covered under excavation/pits	3.0 Hect	2.3 Hect	Mine development is lagging from the approved document.
3n	Ore to OB ratio for the pit/mine during the year.	1:2.1	NIL	
3o	Total area put in use under different heads at the end of year	4.0 Hect	3.7 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	2017-18=150 t 2018-19=39810 t 2019-20=52560 t 2020-21 = 63200t 2021-22 =58800t	
3q	General remarks of inspecting officers on method of mining etc.			HEMM is being used in mineral benches for excavation and transportaion of ROM, Drilling and blasting is being used as and when required on contractual basis

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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 dumps 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.	Two active dupms	Two active dupms	
4f	Number of dead dumps.	None-0	None-0	
4g	Number of dumps established.	Not proposed	None-0	
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-0	
4k	Specific comments of inspecting officer on waste dump management			waste and mineral are being stacked separately, retainign wall prepared around the dumps for protectice measures

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	
5b	Area under backfilling of mined out area	2100 sq meter	Nil	No records for backfilling in the RY 2021-22

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-0	Nil-0	
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).	proposed	Not Submitted	Violation pointed out under rule 26(2) of MCDR 2017
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil-0	
6c	afforestation done (ha).	0.50 hect	0.10 hect	Plantation proposed in the green belt.
6d	No. of saplings planted during the year	100 saplings	30 saplings	Violation pointed out for the same under rule 11(1) of MCDR 2017
6e	Cumulative no .of plants	Not Specified	No record	
6f	Any other method of rehabilitation	Not Proposed	Not done	
6g	Cost incurred on watch and care during the year	Not Furnished	Not applicable	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.7 Hect	1.7 Hect	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	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.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Proposed	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	Nil	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.20 hect	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation over the area	Not done as per proposal.	Violation point out for the same under rule 11(1) of MCDR-2017.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	As per approved mining plan	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			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.

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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	80%	70%	
8h	Water sprinkling on roads to control airborne dust	proposed	water sprinkling by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation done in the lease area but quantity is less. Violation pointed out for the same.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		AR submitted on 26-06-2022. MR submitted	Violation pointed out for late submission of MR for the month Oct-21 & Nov-21.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer - Sh Amit Rai Geologist - Sh Brijesh Ku Dwivedi	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	(i) Already exploited by opencast (O/C) mining 0.900 Hect (ii) Covered under current (O/C) Workings 1.516 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	Yes	30 saplings
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM closing stock - 3529.80 Tonnes Cement Grade
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex Mine Price - 329.21 Sale Value - 329.21 Production Cost - 308.30
9h	Scrutiny of Annual return on fixed assets	Yes	1.1 Crore
9k	Scrutiny of Annual return on mining machineries	Yes	FRONT END LOADER - One DUMPER 10 TONNE - One DUMPER 16 TONNE - One WATER TANKER 20000LITRE - One PUMPS (NON-ELEC.) - One

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 :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines