

**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 : **SQ05** ) **DEEPAK SHARMA**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Amit Kumar Rai Lessee  
Official with  
Designation
- (iv) Date of Inspection : 11-FEB-20
- (v) Prev.inspection date : 07-MAR-18

**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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed	No work related to exploration carried out	
1b	Exploration over lease area for geological axis 1 or 2	Up to G2 Level	Up to G2 Level area explored	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Furnished	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Up to G1 Level	Potential minearlised area explored up to G2	
1e	Balance reserve as on 01/04/20	as on 01.04.2016 122-441102 t 222-304296 t	as on 01.04.2019 122-401142 t 222-304296 t	
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	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it was proposed to do developmnet work in the north and west portion of the lease area	develpment work carried out in the northern side and in the western side of the lease area	

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	1:0.40	1:0.60	
2d	Quantity of topsoil generation in m3	6425 cubic meter	4500 cubic meter	
2e	Quantity of overburden generation in m3	15971 cubic meter	14150 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development as per proposal with slower rate

### 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	40103 t	39810 t	
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.	Not Proposed	NIL	

3g	Grade of sub grade mineral generation	Not Proposed	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method screening proposed	Mechanised method adopted screening
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	NIL
3j	Provision of drilling and blasting in mineral benches	Proposed	Drilling and blasting on contractual basis as and when required
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 as per proposal	bench height and width suitable for proposed mining method
3m	Total area covered under excavation/pits	1.928 hect	1.228 hect
3n	Ore to OB ratio for the pit/mine during the year.		
3o	Total area put in use under different heads at the end of year	4.66 hect	3.28 hect
3p	Production of ROM mineral during the last five year period as applicable	2016-17=19780 t 2017-18=65100 t 2018-19=40103 t	2016-17=1000 t 2017-18=150t 2018-19=39810 t

3q	General remarks of inspecting officers on method of mining etc.	HEMM is being used in mineral bench for excavtaion and transportaion of ROM, Drilling and blasting is being used as and when required on contact basis
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#### 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 proposed	as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	in the north west part of lease area	in the north west part of lease area as per proposal	
4c	Number of dumps within lease area and outside of lease area	two dumps	two dumps are available 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 dumps	two active dumps	
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.	proposed	as per proposal retaining wall prepared	
4i	Length of Retaining wall or garland drain all along dumps	200 meter retaining wall	350 meter retainign wall	
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 as per proposal
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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	area not fully excavated yet	
5b	Area under backfilling of mined out area	Not Proposed	area not fully extracted yet, therefore no bakcfilling done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	to be used in planttaion	is being used in plantation over 7.5 meter barrier zone	
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 not done yet. Planttaion done in the 7.5 meter barrier zone only

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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	

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6b	Area available for rehabilitation (ha) .	Not Proposed	NIL-0
6c	afforestation done (ha).	0.20 hect	0.24 hect
6d	No. of saplings planted during the year	50 nos	50 nos
6e	Cumulative no .of plants	150 nos	200 nos aprox
6f	Any other method of rehabilitation	not proposed	NA
6g	Cost incurred on watch and care during the year	not furnished	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not Proposed	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	NIL
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	0.24 hect	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per mining plan	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Top Soil being used for planttaion

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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	ROM is being scrneed at mine site before dispatch	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed	mechanical screening is being done at mine site	
7c	Different grade of mineral sorted out at mines.	Not Proposed	NA	
7d	Any beneficiation process at mines .	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being screened by mechanical method before dispatch

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**Environment :**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top Soil is being used for planttaion as generated	
8b	Concurrent use or storage of topsoil	proposed for planttaion	planttaion is being done by the top soil generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumps for OB/waste and mineral	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	as per proposal after full extraction of mineral	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal in approved mining plan	
8g	Survival rate	80%	60-65 %	
8h	Water sprinkling on roads to control airborne dust	proposed	water sprinkled on mine roads with water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs to improve and maintained

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR and MR submitted online	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	Mining Engineer Amit Kumar Rai	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished	Furnished	

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9d	Scrutiny of Annual return on afforestation	Furnished	furnished
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished	Furnished
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Furnsihed	Furnished
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Furnished	INR 209.56 cost of production
9h	Scrutiny of Annual return on fixed assets	Not Furnished	Not Furnished
9k	Scrutiny of Annual return on mining machineries	Furnished	FRONT END LOADER 0.000 CUM 1 Non Electrical Opencast DUMPER 10.000 TONNE 3 Non Electrical Opencast AIR COMPRESSOR 0.000 CUM/MN 1 Non Electrical Opencast WATER TANKER 20000.000 LITRE 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

**Date :**

**(DEEPAK SHARMA)**

Indian Bureau of Mines