

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-123

Mine code : 38MPR35057

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 11-FEB-20
- (v) Prev.inspection date : 21-FEB-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PAHARI-II**
- (b) **Registration NO.** : **IBM/6666/2011**
- (c) Category : A Mechanised
- (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 : raico34@yahoo.com
Phone : 07674-232032 (O), 232094 (R)
- (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 :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
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.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	18-MAY-99
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13-OCT-04
		Mining Scheme rule 12 MCDR1988	01-JUL-08
		Mining Scheme rule 12 MCDR1988	04-JUL-14
		MP modif under 17(3) MCR 2016	22-OCT-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	in the year 2018-19 and 2019-20 respectively 1 & 2 boreholes were proposed to drill	the said exploration was not carried out till the date of inspection	voilation for the same was issued
1b	Exploration over lease area for geological axis 1 or 2	ML area is explored upto G2 level	ML area is explored upto G2 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not mentioned	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	ML area is explored upto G2 level	ML area is explored upto G2 level therefore entier ML area 8.094 hect needs to explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2018 122-429596 222-824274	as on 01.04.2019 122-304846 222-824274	units are in tonnes
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to rohtas formation of rock of vindhyan super group, exploration not carried out as per proposal.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposal was given in the central part of the lease area	development was as per proposal in the central part of the lease area advancement towards the northern direction	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate benches proposed	separate benching was done soil-1-2 meter limestone 6-8 meter	
2c	Stripping ratio or ore to OB ratio	1:0.82	OB and soil details not mentioned in AR	
2d	Quantity of topsoil generation in m3	6928 cu m	soil generated not recorded	
2e	Quantity of overburden generation in m3	12898 cu m	OB removal not recorded	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			working was in the said location, records were not maintained for soil and OB generated

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	single pit	single pit	
3b	Quantity of ROM mineral production proposed	60480 tonnes	60050 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	80%	75-80%	
3d	Quantity of mineral reject generation	not proposed	nil	
3e	Grade of mineral rejects generation and threshold value declared.	not proposed	nil	
3f	Quantity of sub grade mineral generation.	not proposed	nil	

3g	Grade of sub grade mineral generation	not proposed	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised methdo proposed	screenrs were used for segregation	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	only screeners were used for segregation	
3j	Provision of drilling and blasting in mineral benches	proposed	as per proposal on contract basis as and when required	
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in the mineral benches for reexcavation and transportaion	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	as per approved mminign plan height and width of benches are suitable for opencast mechanised mining	
3m	Total area covered under excavation/pits	1.58 hect	1.375 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.81	Soil and OB excavation record not maintained therefore cant calculated	
3o	Total area put in use under different heads at the end of year	2.70 hect	1.58 hect	
3p	Production of ROM mineral during the last five year period as applicable	2016-17=46594 2017-18=36450 2018-19=64955 2019-20=60480	2016-17=860 2017-18=270 2018-19=64700 2019-20=60050	units are in tonnes

3q	General remarks of inspecting officers on method of mining etc.	opencast mechanised method of mining is being done in the ML, screensr are installed in the near by ML and private land of ML holder for segregation and sizing of ROM.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping proposed of topsoil, OB and mineral rejects (Rule 32,33)		separate dumps are located within the ML area	
4b	Location of topsoil, OB and mineral reject dumps	soil dump is near the pit in south direction	soil dumps are located in the southern side of the ML	
4c	Number of dumps within lease area and outside of lease area	one soil dump	one soil dump	
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.	one active dump	one active dump -soil dump	
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.	not propsoed	nil	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	nil	

4j	Number of settling ponds	not proposed	nil	
4k	Specific comments of inspecting officer on waste dump management			only one soil dump were located in the ML area in the southern part, whcih is being used for sprading for planttaion

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 is under process	
5b	Area under backfilling of mined out area	not proposed	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	soil is being used in plantation over the barrier zone	
5d	Total area fully reclaimed and rehabilitated	not proposed	no area is fully mature enough for backfilling	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			no area is fully mature for backfilling, full extraction of mineral is still under going

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	proposed	not submitted
6b	Area available for rehabilitation (ha) .	not proposed	nil
6c	afforestation done (ha).	1.50	0.50
6d	No. of saplings planted during the year	50 nos	50 nos
6e	Cumulative no .of plants		100-150 nos
6f	Any other method of rehabilitation	not proposed	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM si being dispatched to nearly installed screeners for sorting and sizing	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	screeners are being used for sorting and sizing	
7c	Different grade of mineral sorted out at mines.	proposed	grade wise sortign is being done in the private land on ML holder adjacent to the ML	
7d	Any beneficiation process at mines .	not proposed	nil	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	soil is being removed separetly and used in plantation	
8b	Concurrent use or storage of topsoil	proposed	soil is being use din planttaion	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per the approved mining plan	
8g	Survival rate	80%	60-65%	
8h	Water sprinkling on roads to control airborne dust	proposed	with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			needs improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	ar submitted upto 2020-21 mr submitted upto oct 2021	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	amit rai mining engineer
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.520 0.520 (ii) Covered under current (O/C) Workings 0.000 1.369 1.369 (iii) Reclaimed/Rehabilitated 0.000 0.080 0.080 (iv) Used for waste disposal 0.000 0.390 0.390 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.050 0.050 (vi) Other Purpose (Green belt) 0.000 0.130 0.130 (vii) Work done under
9d	Scrutiny of Annual return on afforestation	furnished	50 nos

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity) furnished	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 4264.700 0.000 1521.420 2743.280 268.00 (e) Cement 7041.260 60050.000 50996.905 16094.355 282.70
9f	Scrutiny of Annual return on ROM stock and/or graded ore furnished	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 60050.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost furnished	ex mine price 268.00 inr cost of production 257.30 INR

9k	Scrutiny of Annual return on mining machineries	furnished	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) FRONT END LOADER 0.000 CUM 1 Non Electrical Opencast DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 16.000 TONNE 1 Non Electrical Opencast WATER TANKER 20000.000 LITRE 1 Non Electrical Opencast PUMPS (ELEC.) 0.000 L/MN 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