

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

Check up inspection REPORT

Jabalpur regional office

Mine file No : MP/REWA/LST-44

Mine code : 38MPR33035

- (i) Name of the Inspecting : **NQ07**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri S K Sharma (VP Mines)
Official with
Designation
- (iv) Date of Inspection : 09-MAR-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAUBASTA (183.937 HA)**
- (b) **Registration NO.** : **IBM/720/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : REWA
Village : NAUBASTA
Taluka : HUZUR
Post office : JAYPEE NAAGAR
Pin Code : 486450
FAX No. : 07662-229218
E-mail : jrp.mines@jalindia.co.in
Phone : 0662-229212-229217
- (f) Police Station : Naubasta
- (g) First opening date : 11-NOV-05
- (h) Weekly day of rest : SUN
2. Address for :
correspondance : JAIPRAKASH ASSOCIATES LTD.
P.O. JAYPEE NAGAR, DIST. REWA (M.P.) 486450
3. (a) Lease Number : MPR2162
- (b) Lease area : 171.36
- (c) Period of lease : 50
- (d) Date of Expiry : 08-AUG-55
4. Mineral worked : SHALE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : JAIPRAKASH ASSOCIATES LTD.
P.O. JAYPEE NAGAR, REWA
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : JAIPRAKASH ASSOCIATES LTD.
P.O. JAYPEE NAGAR, REWA
MADHYA PRADESH
Phone: +911126141540
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29-DEC-04
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	16-MAY-11
	:	MP modif under MCR 1960	30-JUL-16
	:	MP modif under 17(3) MCR 2016	18-OCT-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Exploration is not done against the proposal of 10 nos of core bore holes in the year 2021-22. Violation is pointed out for same.
1b	Exploration over lease area for geological axis 1 or 2	10 nos core drill Boreholes	10 nos DTH Boreholes	lessee has done DTH drilling which is not as per proposal of the approved document. Violation pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	Exploration proposed to ascertain the continuity of the lease mineral as per provision of the rules and to prove depth of mineralization.
1e	Balance reserve as on 01/04/20		Balance reserve as on 31.03.2021: 8.68 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The limestone in the ML area is mainly Stromatolitic with a nodular look and belongs to the Nagod Limestone Formation of the Bhandar Series, sandwiched between the underlying Simrawal/Ganurgarh Shale and overlying Sirbu Shale.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2718848N to 2719057N and 516743E to 517231E	2718960N to 2719040N and 516924E to 517146E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil- 01 no. Overburden- 01 no. Ore Limestone- 02 nos.	Top Soil- 01 no. Overburden- 01 no. Ore Limestone- 02 nos.	
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.12	
2d	Quantity of topsoil generation in m3	216618 cubic meter	97478 cubic meter	Violation pointed out for same.
2e	Quantity of overburden generation in m3	121453 cubic meter	54653 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It was proposed to remove 216618 cubic meter of top Soil in the year 2020-21 but only 97478 cubic meters is removed. Violation pointed out for same.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	1786703 tonne	1311386 tonne	Violation pointed out for same.

3c	Recovery of sailable/usable mineral from ROM production	100%	100%
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.	Nil	Nil
3g	Grade of sub grade mineral generation	Not proposed	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not applicable
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	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As per proposal
3m	Total area covered under excavation/pits	154.27 ha	138.89 ha

3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.12	
3o	Total area put in use under different heads at the end of year	155.77 ha	140.39 ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17-1878350 2017-18-1894600 2018-19-1841625 2019-20-1525073 2020-21-1786703	2016-17-1209714 2017-18-1108042 2018-19-1354034 2019-20-1365641 2020-21-1311386	
3q	General remarks of inspecting officers on method of mining etc.			the method of mining is opencast with fromation of benches by fully mechanised means. Method of mining is suitable for the limestone mineral considering local geology of the mineral.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Not applicable	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable	
4e	Number of active and alive dumps.	Nil	Nil	
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	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumps not proposed in the approved document. Waste is used for backfilling concurrently. No dumps found during inspection.

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	Full extraction	
5b	Area under backfilling of mined out area	1.496 ha	0.5 ha	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	216618 m3	97478 m3	
5d	Total area fully reclaimed and rehabilitated	1.496 ha	0.5 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling and reclamation is on progress.

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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	1.496 ha	0.5 ha	
6c	afforestation done (ha) .	1.2 ha	1.2 ha	
6d	No. of saplings planted during the year	2000 nos	2000 nos	
6e	Cumulative no .of plants	Not available	91126 nos	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year	Rs 200000/-	Rs 210000/-	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	79.25 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.49 ha	0.50 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.20 ha	0.50 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP work done as per proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Captive use	Captive use	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not applicable	
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			Complete ROM used for Captive use in the Cement Plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation in the mined out area, barrier zone and waste land	Plantation in the mined out area, barrier zone and waste land	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation done in and around the mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly returns filed for the months from Apr-20 to Mar-21 and Annual return for 2020-21 filed.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Manager - Shri Anand Kumar Mishra Mining Engineer - Shri Rameshwar Singh Mine Geologist - Shri Sushanta Kumar Saha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Already exploited & abandoned by O/C working - 132.10 ha Cover under current working 6.79 ha reclaimed area - 59.64 ha Dump - Nil Road - 1.5 ha	
9d	Scrutiny of Annual return on afforestation		2.0 ha (2000 Nos)	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		as pe AR	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Rs 295.68/Tonne	
9h	Scrutiny of Annual return on fixed assets		as per AR	
9k	Scrutiny of Annual return on mining machineries		Shovel - 4 nos, Dumpers - 8 nos Drilling Machine - 02 nos Dozers - 02 nos	

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)	28-MAR-22			
MCDR17	Rule 27(1)	28-MAR-22			
MCDR17	Rule 55(1) (1)	28-MAR-22			

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines