

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

**MCDR INSPECTION REPORT**

**Jabalpur regional office**

**Mine file No :** MP/REWA/LST-44

**Mine code :** 38MPR33035

- (i) Name of the Inspecting : **N006** ) **P.NAHAR**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 13/03/2018
- (v) Prev.inspection date : 16/11/2009

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NAUBASTA (183.937 HA)**
- (b) **Registration NO.** :
- (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. : NA  
E-mail : NA  
Phone : NA
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
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 : 20  
(d) Date of Expiry : 08/08/2025
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: N. A.  
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29/12/2004
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	16/05/2011
	:	MP modif under MCR 1960	30/07/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed.	Nil	Entire area has been explored at 200mx200m grid.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	----
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	---
1e	Balance reserve as on 01/04/20	111- 15.978m.t. 211-4.90m.t.		
1f	General remarks of inspecting officers on geology, exploration etc	----	----	Lower Grey Limestone is exposed .These belongs to Nagod Formation of Bhandar Group having U. Vindhyan.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposed on GridLine 7100N to 7400N near NW boundary.	Proposed on GridLine 7100N to 7400N near NW boundary.	----
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OBS bench-5m NDS-Nil Lst.-I-7m to 8m Lst.-II-3m to 3.5m	OBS bench-2-2.5m NDS-Nil Lst.-I-7m to 8m Lst.-II-2m to 3.5m	----

2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.25	----
2d	Quantity of topsoil generation in m3	16-17-212340m3 17-18-161418m3	16-17-169220m3 17-18-82252m3	----
2e	Quantity of overburden generation in m3	16-17-117254m3 17-18-70838m3	16-17-105266m3 17-18-52630m3	----
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	Development was dproposedand done between grid line- 7100N to 7400N at Northern boundary.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	----
3b	Quantity of ROM mineral production proposed	14-15-1678550T 15-16-1600500T 16-17-1878350T 17-18-1894600T	14-15-1095808T 15-16-743648T 16-17-1104448T 17-18-951084T	----
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	----
3d	Quantity of mineral reject generation	Not anticipated	Nil	----
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	----
3f	Quantity of sub grade mineral generation.	16-17-192388m3 17-18-146622m3	16-17-105266T 17-18-13753T	----
3g	Grade of sub grade mineral generation	CaO-34to 38%	CaO-34to 38%	----

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	----
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.	Done.	----
3k	Provision of mining machineries in mineral benches	FM	FM	----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	----
3m	Total area covered under excavation/pits	7.078Ha	5.50Ha	Current pit area.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.25	----
3o	Total area put in use under different heads at the end of year	155.770Ha (Till end of proposal period)	130Ha (Approx. till date of inspection)	----
3p	Production of ROM mineral during the last five year period as applicable	14-15-1678550T 15-16-1600500T 16-17-1878350T 17-18-1894600T	14-15-1095808T 15-16-743648T 16-17-1104448T 17-18-951084T	----
3q	General remarks of inspecting officers on method of mining etc.	----	----	Fully mechanized method as per approved SoM is done.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Soil - Spreading over backfilled area,afforesta tion and reamining Qty. as temporary storage.OB/was te for reclamtion and rehabilitation of mined out pit.	Soil - Spreading over backfilled area,afforestation and reamining Qty. as temporary storage.OB/was te for reclamtion and rehabilitation of mined out pit..	----
4b	Location of topsoil, OB and mineral reject dumps	Top soil temporary stack.	Top soil temporary stack.	----
4c	Number of dumps within lease area and outside of lease area	Not proposed.	Nil	----
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Backffiling of mined out pit within UPL	Backffiling of mined out pit within UPL	----
4e	Number of active and alive dumps.	Not proposed.	Nil	----
4f	Number of dead dumps.	Not proposed.	Nil	----
4g	Number of dumps established.	Not proposed.	Nil	Waste for reclamtion of mined out area.
4h	Whether Retaining wall or garland drain all along dumps are there.	Both proposed	Both made.	----
4j	Number of settling ponds	Not proposed.	Made at discharge point.	----
4k	Specific comments of inspecting officer on waste dump management	----	----	In approved SoM it was proposed that entire waste will be used for reclamtion and rehabilitation of mined out pit. Same process is on progress.

## 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	16-17-3.549Ha 17-18-2.5445Ha	16-17-4.095Ha 17-18-1.716Ha	----
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Utilisation and reamaining Qty. for storagefor future use.	Utilisation and reamaining Qty. for storagefor future use.	----
5d	Total area fully reclaimed and rehabilitated	28.244Ha	33.311Ha	----
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	In the approved SoM it was proposed that waste will be used for reclmation and rehabilitation of mined out pit. Same process is continued.

## 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	----	----
6b	Area available for rehabilitation (ha) .	6.0884Ha	3.0Ha	----
6c	afforestation done (ha).	11600Nos. During present SoM period.	287362No. within ML 13115Nos outside ML (Cummulative)	Combined figur for both ML.

6d	No. of saplings planted during the year	1614Nos. in 0.807Ha	9535Nos. in 5.0Ha within ML 1000Nos. in 1.0Ha outside ML.	Combined figures for both ML.
6e	Cumulative no .of plants	Not mentioned.	287362Nos. within ML and 13115Nos. outside ML cummulative.	Combined figures.
6f	Any other method of rehabilitation	Not proposed.	None.	----
6g	Cost incurred on watch and care during the year	Not mentioned.	NA	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	16.628Ha	3.0Ha	----
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not mentioned.	52.91Ha	Cummulative figures including old excavation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not mentioned.	Cummulative 52.91Ha including old excavation.	----
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not mentioned.	Water reservoir made .	----
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.	Not done.	----
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Nil	Entire was ahs been used for backfilling purposed.
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)	Season wise Env. Monitoring.	Complied.	There is a Env. Monitoring Cell in Factory compound.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	PMCP compliances are on progress as per approved SoM.

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch.	ROM dispatch.	----
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed.	Nil	----
7c	Different grade of mineral sorted out at mines.	Sorting Not proposed.	Cement grade as ROM.	----

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	ROM dispatch was proposed to his Captive Cement Plant. Same process is on progress.
----	--	------	------	---

---

**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilisation of top soil is proposed.	Seperate removal and utilisation of top soil is done.	----
8b	Concurrent use or storage of topsoil	--Do--	--Do--	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	Nil	For reclamtion of mined out pit at earmarked place.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For backfilling	For reclamtion of mined out pit at earmarked place.	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed.	Done.	----

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-----	-----	An additional plantation of 287362Nos. within ML and 13115Nos. outside ML has been made.
8g	Survival rate	80%	80%	-----
8h	Water sprinkling on roads to control airborne dust	Proposed.	Done regularly.	-----
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	To improve aesthetic beauty 28736Nos. of saplings planted within ML and 13115 Nos. outside ML.

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR-Jan-18. AR-16-17.	-----	-----
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Grologist-Sh. Amitranjan M.E-Shri Rameshwar Singh Manager-Sh.A.K. Verma	Grologist-Sh. Amitranjan M.E-Shri Rameshwar Singh Manager-Sh.A.K. Verma	-----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited and abandoned by OC mining-122.50Ha Covered under current OC working-7.50Ha Reclaimed and rehabilitated-52.91Ha Occupied by Plant,building etc.-21.250Ha.	Already exploited and abandoned by OC mining-122.50Ha Covered under current OC working-7.50Ha Reclaimed and rehabilitated-52.91Ha Occupied by Plant,building etc.-21.250Ha.	-----

9d	Scrutiny of Annual return on afforestation	Within ML-7200Nos. Outside ML-1000Nos.	Agree.	Combined for both ML.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost-Rs.-284.24/-	OK	----
9h	Scrutiny of Annual return on fixed assets	Rs.-657,837,462/-	Agree.	Combined for both ML.
9k	Scrutiny of Annual return on mining machineries	Shovel-4Nos. Drill-03Nos. Haupak 32T-10Nos.	Agree	----

---

**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 :****(P. NAHAR)**

Indian Bureau of Mines