

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

MCDR INSPECTION REPORT

Jabalpur regional office

Mine file No : MP/RWA/LST-3

Mine code : 38MPR33003

- (i) Name of the Inspecting : **N006**) **P.NAHAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sh.S.K.Sharma G.M.(Mines), Sh. Amit Ranjan, Geologist, A
Official with
Designation
- (iv) Date of Inspection : 12/03/2018
- (v) Prev.inspection date : 09/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAUBASTA (470. 941 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 KACHUR
Taluka : HUZUR
Post office : JAYPEE NAGAR
Pin Code : 486450
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 10/03/1986
- (h) Weekly day of rest : SUN
2. Address for : M/S JAIPRAKASH ASSOCIATES LTD.
correspondance : P.O. JAYPEE NAGAR, DIST. REWA (M.P.) 486450
3. (a) Lease Number : MPR0358
(b) Lease area : 460.31
(c) Period of lease : 10
(d) Date of Expiry : 08/08/2014
4. Mineral worked : 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	:	Mining Scheme rule 12 MCDR1988	10/07/1997
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04/09/2002
		Renewal under rule 24 MCR1960	10/06/2004
		Modif.of approved Mining Plan	29/04/2005
		Mining Scheme rule 12 MCDR1988	15/10/2009
		Modif.of approved Mining Plan	09/07/2012
		Modif.approved Mining Scheme	10/07/2012
		Mining Scheme rule 12 MCDR1988	03/11/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	Entire backlog exploration has been completed.
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.	Entire backlog exploration has been completed by Lessee himself.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area has been explored under G1 level.
1e	Balance reserve as on 01/04/20	----	111-3.789214m.t. 211-1.49m.t.	----
1f	General remarks of inspecting officers on geology, exploration etc	----	----	Lower Grey Limestone is exposed in the Block-I and Upper Grey Limestone bands in Block-II. These belongs to Nagod Formation of Bhandar Group having Upper Vindhyan Age. Backlog exploration of 17BH has been completed in 17-18.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	West of conveyor belt.	West of conveyor belt on Southern boundary.	There is no site deviation.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OBS bench-3m NDS bench-4m Lst-7m Lst-II-4m	OBS-3m NDS-3m to 4m Lst-I-6m Lst-II-4m to 5m	----
2c	Stripping ratio or ore to OB ratio	1:0.15	1:0.53	----
2d	Quantity of topsoil generation in m3	14-15-215705m3 15-16-127614m3 16-17-89786m3 17-18-16886m3	14-15-708897m3 15-16-465038m3 16-17-NA 17-18-NA	Top soil generation figures of North block only.
2e	Quantity of overburden generation in m3	14-15-978094m3 15-16-640258m3 16-17-316173m3 17-18-167229m3	14-15-1156596m3 15-16-1250520m3 16-17-815148m3 17-18-35283m3	Combined figures of Naubasta 460.310Ha and Naubasta 183.937Ha.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	Development was proposed western side of Conveyor belt at southern boundary and it was on progress at same location.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	----
3b	Quantity of ROM mineral production proposed	14-15-2397823T 15-16-2523195T 16-17-1202038T 17-18-1277358T	14-15-1690688T 15-16-1375016T 16-17-3637779T 17-18-417302T	----
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.	Not applicable.	Not applicable.	----

3f	Quantity of sub grade mineral generation.	14-15-37200m3 15-16-241350m3 16-17-97000m3 17-18-54,740m3	14-15-254816m3 15-16-186808m3 16-17-34083m3 17-18-8514m3	Nodular shale.
3g	Grade of sub grade mineral generation	34-38%CaO	34-38%CaO	----
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	Not proposed.	Not done.	----
3k	Provision of mining machineries in mineral benches	Fully mechanized.	Fully mechanized.	----
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	13.5Ha	8.84Ha	Current pit area.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.15	1:053	----
3o	Total area put in use under different heads at the end of year	238.055Ha (Till end of proposal period)	221.84Ha (Till date of inspection)	----

3p	Production of ROM mineral during the last five year period as applicable	14-15-2397823T 15-16-2523195T 16-17-1202038T 17-18-1277358T	14-15-1690688T 15-16-1375016T 16-17-3637779T 17-18-417302T	-----
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Fully Mechanized method as per approved SoM is being 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,afforestation 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 reclamtion and rehabilitation of mined out pit.	-----
4b	Location of topsoil, OB and mineral reject dumps	Top soil temporary stack.	Some soil heaps seen near Northern boundary.	-----
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)	Backfilling of mined out pit within UPL.	Backfilling 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	-----

4h	Whether Retaining wall or garland drain all along dumps are there.	Both proposed.	Both made.	----
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable.	----
4j	Number of settling ponds	Not proposed.	Made at discharge points.	----
4k	Specific comments of inspecting officer on waste dump management	----	----	In approved SoM it was proposed that entire waste will be used for reclamation 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	111.00Ha In the proposal period.	177.70Ha (Cummulative including old excavation period)	----
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Utilization and remaining Qty. Storage for future utilization.	Utilization and remaining Qty. Storage for future utilization.	----
5d	Total area fully reclaimed and rehabilitated	Not mentioned.	177.70Ha	----

5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	In the approved SoM it was proposed that waste will be used for reclamation and rehabilitation of mined out pit. Same process is continued.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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) .	8.84Ha (approx.)	2.0Ha	----
6c	afforestation done (ha).	11600Nos. During present SoM period.	287362No. within ML 13115Nos outside ML (Cumulative)	----
6d	No. of saplings planted during the year	1614Nos. in 0.807Ha.	9535 Nos. in 5.0Ha within ML 1000Nos. in 1.0Ha outside ML	----
6e	Cumulative no .of plants	Not mentioned.	287362No. within ML 13115Nos outside ML (Cumulative)	----
6f	Any other method of rehabilitation	Not proposed.	None.	----
6g	Cost incurred on watch and care during the year	Not mentioned.	Not available.	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	8.84Ha (approx.)	2.0Ha	----

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not mentioned.	--Do--	Cummulative 177.70Ha including old excavation.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not mentioned.	Cummulative 177.70Ha including old excavation.	----
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not mentioned.	Water reservior made as per previous minig plan.There are 4 water reservoir in the lease area.	----
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 proposed.	----
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)			
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)	Seasonwise Env. Monitoring.	Done Seasonwise Env. Monitoring on regular basis.	There is a Environment Monitoring Cell in Plant premisis.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	PMCP complinace is 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.	Not proposed.	Cement grade as ROM.	----
7d	Any beneficiation process at mines .	Not proposed.	Not done.	----
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
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8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilization oftop soil is proposed.	Seperate removal and utilization oftop 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 Reclamation and Rehabilitation 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 Reclamation and REhabilitation 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 MLand 13115Nos outside ML has been made.
8g	Survival rate	80%	80%	----
8h	Water sprinkling on roads to control airborne dust	Proposed.	Done daily.	----

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	----	To improve aesthetic beauty 287362Nos of sapling planted withinML and and 13115 outside lease area.
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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	Geologist- Amitranjan. Mining Engineer- Rameshwar Singh. Manager-Sh. A.K. Verma.	Geologist-Amitranjan. Mining Engineer- 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- 230.42Ha Covered under current OC working-8.84Ha Reclaimed and rehabilitated- 177.70Ha Occupied by Plant,building etc.-21.250Ha.	Already exploited and abandoned by OC mining- 230.42Ha Covered under current OC working-8.84Ha Reclaimed and rehabilitated-177.70Ha Occupied by Plant,building etc.- 21.250Ha.	----
9d	Scrutiny of Annual return on afforestation	Within ML- 7200Nos. Outside ML- 1000Nos.	Agree.	----
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	657,837,462/-	Agree.	----
9k	Scrutiny of Annual return on mining machineries	Shovel-4Nos. Drill-03Nos. Haulpak-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