

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/REWA/LST-44

Mine code : 38MPR33035

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh S K Sharma (VP Mines), Sh A K Verma (Mine Manager)
Official with
Designation
- (iv) Date of Inspection : 26-FEB-21
- (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	NA	NA	
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	NA	NA	
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 31.03.2020: 9.99 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	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N2718702 to N2718976 E517200 to E517848	Within the grid of N2718702 to N2718976 E517200 to E517848	
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	1:0.25	1:0.19	
2d	Quantity of topsoil generation in m3	144109 Cum	109677 Cum	
2e	Quantity of overburden generation in m3	202348 Cum	123084 Cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Pit has been developed as per approved document.

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	1525073 tonne	1365641 tonne	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA	
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	NA
3h	Manual / Mechanised method adopted for segregating from ROM	NOT PROPOSED	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NOT PROPOSED	NA
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	YES
3m	Total area covered under excavation/pits	140.81 hect.	137.79 hect.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.24	1:0.18

3o	Total area put in use under different heads at the end of year	1.Area under mining- 140.81Ha 2.Mineral Storage-0.0Ha 3.Road- 1.50Ha 4. Infrastructure - 0.0Ha 5. OB/Waste dump- 0.0 Ha 6. Other- 0.0 Ha Total area put to use- 142.31Ha	1.Area under mining- 137.79Ha 2.Mineral Storage-0.0Ha 3.Road- 1.50Ha 4. Infrastructure- 0.0Ha 5. OB/Waste dump- 0.0 Ha 6. Other- 0.0 Ha Total area put to use- 139.29Ha
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3p	Production of ROM mineral during the last five year period as applicable	2015-16 1600500 2016-17 1878350 2017-18 1894600 2018-19 1841625 2019-20 1525073	2015-16 743648 2016-17 1104448 2017-18 1108042 2018-19 1354034 2019-20 1365641
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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	Nil	

4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Nil	
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)	NA	NA	
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.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
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
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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	0.99 Hect	6.23 Hect	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
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	No	Violation pointed out for the same.
6b	Area available for rehabilitation (ha) .	0.99 Ha	6.23Ha	
6c	afforestation done (ha) .	1.2 Ha	1.2 Ha	
6d	No. of saplings planted during the year	2000 nos	5300 nos	
6e	Cumulative no .of plants	Not available	89126 Nos	

6f	Any other method of rehabilitation	Not proposed	NA
6g	Cost incurred on watch and care during the year	Rs.200000/-	Rs.285510/-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Backfilling area- 0.99 Ha	Backfilling area- 6.23 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.99 Ha	6.23 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	1.2 Ha	1.2 Ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Yes	Yes
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	NA
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	NA	
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.			Yearly report not submitted under rule 26 (2) . Violaiton pointed out for the same.

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	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Complete ROM used for Captive use in the Cement Plant.
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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-19 to Mar-20 and Annual return for 2019-20 filed.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer - Shri A.K. Verma Mine Geologist - Shri S. K. Saha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	1.Area under mining- 137.79Ha 2.Mineral Storage-0.0Ha 3.Road- 1.50Ha 4. Infrastructure- 0.0Ha 5. OB/Waste dump- 0.0 Ha 6. Other- 0.0 Ha Total area put to use- 139.29Ha	
9d	Scrutiny of Annual return on afforestation	Yes	As per AR	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	as per AR	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	as pe AR
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	as per AR
9h	Scrutiny of Annual return on fixed assets	Yes	as per AR
9k	Scrutiny of Annual return on mining machineries	Yes	as per AR

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)	22-APR-21			
MCDR17	Rule 26(2)	22-APR-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines