

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/RWA/LST-3

Mine code : 38MPR33003

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri S K Sharma (Vice President), Shri A.K. Verma (Mi
Official with
Designation
- (iv) Date of Inspection : 12-JAN-21
- (v) Prev.inspection date : 12-MAR-18

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. :
E-mail :
Phone : +911126141540,+91766222921:
- (f) Police Station :
- (g) First opening date : 10-MAR-86
- (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 : 50
(d) Date of Expiry : 08-AUG-34
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: +911126141540
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	10-JUL-97
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	04-SEP-02
		Renewal under rule 24 MCR1960	10-JUN-04
		Modif.of approved Mining Plan	29-APR-05
		Mining Scheme rule 12 MCDR1988	15-OCT-09
		Modif.of approved Mining Plan	09-JUL-12
		Modif.approved Mining Scheme	10-JUL-12
		Mining Scheme rule 12 MCDR1988	03-NOV-14
		MP review under 17(1) MCR 2016	18-DEC-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	13 nos Borehole	Nil	Violation pointed out
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	33.42 HA of G2 area to be explored for G1	Nil	
1e	Balance reserve as on 01/04/20	29.15 Million tonne	29.77 Million tonne	
1f	General remarks of inspecting officers on geology, exploration etc			Exploratio is lagging behind the proposals

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North Block- N2717472 to N2717644 E518984 to E519458 South Block- N2715323 to N2715565 E518955 to E519270	During inspection it was observed that development has been carried out between the grid coordinates 2717000 N to 2716900 N & 519050 E to 519350 E in addition to the above proposals.	violation pointed out

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	North Block- Top Soil- 01 no. Overburden- 01 no. Ore Limestone- 02 nos. South Block- Top Soil- 01 no. Ore Limestone- 01 no.	during inspection it was found that the benches in the North Block of the lease have been merged between the grid coordinates 2717400 N to 2716900 N & 519000 E to 519350 E, resulting height of the benches found more than the proposed in approved document.	violation pointed out
2c	Stripping ratio or ore to OB ratio	1:0.14	1:0.24	
2d	Quantity of topsoil generation in m3	North Block- 1851 Cum South Block- 18389 Cum	North Block- 350 Cum South Block- Nil	violation pointed out
2e	Quantity of overburden generation in m3	North Block- 42390 Cum South Block- 0.00 Cum	North Block- 31183 Cum South Block- Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			overall development is lagging behind approved proposals

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	North Block- 01 no. South Block- 01 no.	North Block- 01 no. South Block- Nil	less production achieved.
3b	Quantity of ROM mineral production proposed	North Block- 326433 tonne South Block- 563390 tonne Total- 889823 tonne	North Block- 254438 tonne South Block- Nil Total- 254438 tonne	

3c	Recovery of sailable/usable mineral from ROM production	85%	85%
3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	NA	NA
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	<p>NO. During inspection it was observed that the height of the overburden bench lying in south-western part of the North block is more than 6 m as against 3.5 m proposed in the approved document.</p> <p>In the approved document, it was proposed to maintain separate benches for Top Soil (01 no), Overburden- (01 no) and Limestone- (02 nos). i.e a total of 04 nos of benches in the North Block of the mine area. But, during inspection it was found that the benches in the North Block of the lease have been merged</p>	violation pointed out for the same.
3m	Total area covered under excavation/pits			
3n	Ore to OB ratio for the pit/mine during the year.	1:0.14	1:0.24	
3o	Total area put in use under different heads at the end of year	<p>1. Area under mining- 194.99Ha</p> <p>2. Mineral Storage- 0.0Ha</p> <p>3. Road- 6.50Ha</p> <p>4. Infrastructure - 14.75Ha</p> <p>5. OB/Waste dump- 0.0 Ha</p> <p>6. Other- 0.0 Ha</p> <p>Total area put to use- 216.24Ha</p> <p>Excavated area reclaimed- 172.83 Ha</p>	<p>1. Area under mining- 198.73Ha</p> <p>2. Mineral Storage- 0.0Ha</p> <p>3. Road- 6.50Ha</p> <p>4. Infrastructure- 14.75Ha</p> <p>5. OB/Waste dump- 0.254 Ha</p> <p>6. Other- 0.0 Ha</p> <p>Total area put to use- 216.494Ha</p> <p>Excavated area reclaimed- 172.83 Ha</p>	

3p	Production of ROM mineral during the last five year period as applicable	2015-16 2523195 tonne 2016-17 1202038 tonne 2017-18 1277358 tonne 2018-19 1302155 tonne 2019-20 889823 tonne	2015-16 1188208 tonne 2016-17 329696 tonne 2017-18 417302 tonne 2018-19 696670 tonne 2019-20 254438 tonne
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3q	General remarks of inspecting officers on method of mining etc.	development and production both are lagging behind the proposals.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	North Block- not proposed South Block- Separate dumping of Topsoil and OB was proposed	North Block- NA South Block- NIL	
4b	Location of topsoil, OB and mineral reject dumps	North Block- not proposed South Block- Location of OBS Dumping N2715353 TO N2715332 and E 520181 TO E520230	North Block- NA South Block- NIL	
4c	Number of dumps within lease area and outside of lease area	North Block- NOT PROPOSED South Block- 01	North Block- NA South Block- NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active and alive dumps.	North Block- Not proposed South Block- 01	North Block- NA South Block- NIL	

4f	Number of dead dumps.	NA	NA
4g	Number of dumps established.	NA	NA
4h	Whether Retaining wall or garland drain all along dumps are there.	not proposed	NA
4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	not proposed	NA
4k	Specific comments of inspecting officer on waste dump management		

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.	Yes	Yes	
5b	Area under backfilling of mined out area	0.30 Ha	0.234Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes	Yes	
5d	Total area fully reclaimed and rehabilitated	1.2 Ha	1.2 Ha	

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	Not submitted	violation pointed out
6b	Area available for rehabilitation (ha) .	0.30	0.234	
6c	afforestation done (ha).	1.2 Ha	1.2 Ha	
6d	No. of saplings planted during the year	yes (3000 nos)	carried out	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	Rs.100000/-	Rs.96,540/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	i) Backfilling area- 0.30 Ha	i) Backfilling area- 0.234 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Afforestation on the backfilling - 1.2 Ha	Afforestation on the backfilling - 1.2 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.	NIL	NIL	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1.2 Ha	1.2 Ha	
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	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	NOT SUBMITTED	VIOLATION POINTED OUT

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Captive use for own Cement Plant proposed	As per proposal	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA
7c	Different grade of mineral sorted out at mines.	NA	NA
7d	Any beneficiation process at mines	NA	NA

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	As per proposal	
8b	Concurrent use or storage of topsoil	Topsoil to be spread over backfilled area	As per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden, waste rock will be used for backfilling	As per proposal	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation in the backfilled area proposed	As per proposal
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA
8g	Survival rate	70%	70%
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		monthly returns submitted till december 2020. Annual returns submitted for the year 2019-2020	Submitted as per rule 45 of MCDR 2017
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Manager-Shri A.K. Verma Mining Engineer in charge-Shri Rameshwar Singh Geologist in charge-Shri Amit Ranjan-	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	(i) Already exploited & abandoned by opencast (O/C) mining 176.082 (ii) Covered under current (O/C) Workings 18.910 (iii) Reclaimed/Rehabilitated -172.830 (iv) Used for waste disposal -0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads -21.250 (vi) Other Purpose-0.000 (vii) Work done under progressive mine closure plan during the year 0.000
9d	Scrutiny of Annual return on afforestation		NA
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	yes	Ex-mine price -261.78
9h	Scrutiny of Annual return on fixed assets	yes	Value of Fixed Assets (in Rs) 588930121
9k	Scrutiny of Annual return on mining machineries	yes	SHOVEL (HYDRAULIC) 3.100 CUM 4 DUMPER 32.000 TONNE 6 BLAST HOST DRILL 150.000 MM 2 DUMPER 55.000 TONNE 2 DOZER 275.000 HP 2

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)	20-JAN-21			
MCDR17	Rule 26(2)	20-JAN-21			
MCDR17	Rule 40	20-JAN-21			
MCDR17	Rule 41(1)	20-JAN-21			
MCDR17	Rule 11(1)	20-JAN-21			
MCDR17	Rule 26(2)	20-JAN-21			
MCDR17	Rule 40	20-JAN-21			
MCDR17	Rule 41(1)	20-JAN-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines