

I/7791/2023

**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 : 04-DEC-21
- (v) Prev.inspection date : 12-JAN-21

**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** : **40**
- (d) **Date of Expiry** : **08-AUG-24**
4. **Mineral worked** : **LIMESTONE** **Main**

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## 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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	13	13	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
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	33.42 ha of G2 area to be explored for G1	
1e	Balance reserve as on 01/04/20	111- 11.29 Million Tonnes	111-13.029 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The Mining Lease area under reference forms a part of the Bhandar Series of the upper Vindhyan System of the Indian Stratigraphy. The limestone formation of Naubasta Mine falls in the Bhandar Series of the Upper Vindhyan System. it is established that the general strike of the formation in the area is ENE - WSW. The formations are horizontal to sub-horizontal and the dip is varying from 20 to 40 towards south. The limestone deposit of the area belongs to Nagod Limestone Formation.

Development :

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Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the North & South Block	In the North & South Block	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden & minerals proposed	(i) Number of Benches Mechanised 2ore & 2OB (ii) Average height (meters) Mechanised 7m in ore 4m in OB	
2c	Stripping ratio or ore to OB ratio	1:0.14	1:0.24	
2d	Quantity of topsoil generation in m3	134173	73050	Overall excavation were less as the mine was suspended before the completion of the financial year.
2e	Quantity of overburden generation in m3	134173	31562	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Overall excavation were less as the mine was suspended before the completion of the financial year.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	1458920 T	356591 T	The mine was suspended between the proposal year.
3c	Recovery of sailable/usable mineral from ROM production	85%	85%	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

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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	As per proposal
3k	Provision of mining machineries in mineral benches	Yes	SHOVEL (HYDRAULIC) 3.100 CUM 4 Non Electrical Opencast DUMPER 32.000 TONNE 6 Non Electrical Opencast BLAST HOST DRILL 150.000 MM 2 Non Electrical Opencast DUMPER 55.000 TONNE 2 Non Electrical Opencast DOZER 275.000 HP 2 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		(i) Number of Benches Mechanised 2ore & 2OB (ii) Average height (meters) Mechanised 7m in ore 4m in OB
3m	Total area covered under excavation/pits	204 ha	198.73Ha
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	226 ha(approx.)	221 ha(approx.)

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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 as the mine was suspended before the completion of the proposal year.
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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)	Separate dumping of Topsoil and OB was proposed	Separate dumping of Topsoil and OB carried out	
4b	Location of topsoil, OB and mineral reject dumps	N2715353 TO N2715332 and E 520181 TO E520230	N2715353 TO E 520181 TO E520230 and N2715332	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	01	01	
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.	Not proposed	NA	

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4i	Length of Retaining wall or garland drain all along dumps	NA	NA
4j	Number of settling ponds	NA	NA

## 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 of mineral from mined out area before starting backfilling proposed	full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	0.30Ha	0.234Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	For plantation	
5d	Total area fully reclaimed and rehabilitated	174.5 Ha	173.334 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling & reclamation have been carried out in the mined out area.

## 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	Submitted.	
6b	Area available for rehabilitation (ha) .	0.30	0.234	

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6c	afforestation done (ha).	1.2 Ha	1.2 Ha
6d	No. of saplings planted during the year	3000	3400
6e	Cumulative no .of plants	Not proposed	6000 approx.
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 ( Lx B x D	0.30 Ha	0.234 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.3 ha	0.234 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1.2 Ha	1.2 Ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA



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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA
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	Carried 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	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Captive use of ROM for own Cement Plant adopted.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Yes	As per proposal	
8b	Concurrent use or storage of topsoil	Topsoil to be spread over backfilled area	Topsoil spread over backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Nil	
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	90%	90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty needs improvement.

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	GIVEN	Returns submitted online.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager Shri Anand Kumar Mishra 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 0.000 176.082 176.082 (ii) Covered under current (O/C) Workings 0.000 22.400 22.400 (iii) Reclaimed/Rehabilitated 0.000 173.334 173.334 (iv) Used for waste disposal 0.000 1.000 1.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 21.250 21.250 (vi) Other Purpose () 0.000 0.000 0.000 (vii) Work done under progressive mine closure plan during the year 0.000 1.700 1.700
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 3400 nos (ii) Survival rate in percentage 90.00 nos
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	Given	Ex-mine price -295.68

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9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in .Rs) 652895893
9k	Scrutiny of Annual return on mining machineries	Given	SHOVEL (HYDRAULIC) 3.100 CUM 4 Non Electrical Opencast DUMPER 32.000 TONNE 6 Non Electrical Opencast BLAST HOST DRILL 150.000 MM 2 Non Electrical Opencast DUMPER 55.000 TONNE 2 Non Electrical Opencast DOZER 275.000 HP 2 Non Electrical Opencast

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

**Date :****(ROBERT SIMON C)**

Indian Bureau of Mines