

I/2353/2022

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** UP/SONEBHADRA/LST-2

**Mine code :** 38UPR56004

- (i) Name of the Inspecting : **N007** ) **PUKHRAJ NENIVAL**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Vivek Khosla, Agent Mines, Shri D K Pandey, Mine  
Official with  
Designation
- (iv) Date of Inspection : 24-NOV-22
- (v) Prev.inspection date : 04-FEB-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BHALUA (592.827 HA)**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : UTTAR PRADESH
- District : SONBHADRA
- Village : BHALUA
- Taluka : ROBERTSGANJ
- Post office : ORBA
- Pin Code : 231207
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** :
- (h) **Weekly day of rest** :
2. **Address for correspondance** : M/S JAIPRAKASH ASSOCIATES LIMITED  
DALLA CEMENT FACTORY, VILL. KOTA, P.O. DALLA,  
DISTT. SONEBHADRA (U.P.)
3. (a) **Lease Number** : UPR0223
- (b) **Lease area** : 670.57
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 17-MAY-27
4. **Mineral worked** : LIMESTONE Main

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## 5. Name and Address of the

Lessee : JAIPRAKASH ASSOCIATES LIMITED  
P.O.DALLA, DISTT.  
SONEBHADRA (U.P.) 231207  
SONBHADRA UTTAR PRADESH  
Phone:  
FAX :

Owner : JAIPRAKASH ASSOCIATES LIMITED  
P.O.DALLA, DISTT.  
SONEBHADRA (U.P.) 231207  
SONBHADRA UTTAR PRADESH  
Phone:  
FAX :

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	29-FEB-08
		Modif.of approved Mining Plan	28-JUN-11
		Mining Scheme rule 12 MCDR1988	25-MAY-12
		MP review under 17(1) MCR 2016	15-MAY-17
		MP modif under 17(3) MCR 2016	07-MAR-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	06 No. /600 Meter	04 No. /496.00 Meter	
1b	Exploration over lease area for geological axis 1 or 2	NIL	13 No./1552.00 Meter	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Synergy Geotech/ 12.60 lakhs	Synergy Geotech/ 32.59 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 293.60 Ha.	G1 (64.98)	13 BH for mineral depth.
1e	Balance reserve as on 01/04/20	Balance reserves as on 01.04.2022 111-4.50 Mio Ton 211-22.01 Mio Ton 333-12.34 in Mio Ton Total Reserve & Resources to 150/100 ML : 38.85 (Mio.T)	Balance reserves as on 01.04.2022 111-1.64 Mio Ton 211-22.01 Mio Ton 333-12.34 Mio Ton Total Reserve & Resources to 150/100 ML : 36.03 (Mio.T)	

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1f General remarks of inspecting officers on geology, exploration etc

Drilling has been done by 17 BH recently / past. Geology: - The Leasehold area forms a part of the Vindhyan limestone occurring in the form of mainly isolated hills and gently sloping plain towards north. The highest elevation is 232 m AMSL in the lease area and lowest is 192 m AMSL in the western direction. In general, the topography is hilly, undulating and gently sloping towards N / NE direction and so controlling the drainage of the area. The lease area is drained by Son River flowing from

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-2 Pit-2 , Bhalua	Pit-2,Block -2 Bhalua	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Very Less	Very Less	Separate very less.
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.19	
2d	Quantity of topsoil generation in m3	NIL Very Less	NIL Very Less	
2e	Quantity of overburden generation in m3	32739.20 m3	169989m3	

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2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

The mine is developed in Block-2 in 9 metre benches. The waste is generated from inter calculated clay/ soil and screen reject.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	471444.50 T	398251.707 T	
3c	Recovery of sailable/usable mineral from ROM production	90	93.5	
3d	Quantity of mineral reject generation	32739.20 m3 (10%)	14732.00m3 (5%)	
3e	Grade of mineral rejects generation and threshold value declared.	CaO<25	CaO<25	
3f	Quantity of sub grade mineral generation.	Not proposed	Not applicable	
3g	Grade of sub grade mineral generation	Not proposed	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	Screen/ Wobbler
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NIL	
3j	Provision of drilling and blasting in mineral benches	Proposed	Provided 6" & 4" Depth 9 Mtr	

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3k	Provision of mining machineries in mineral benches	Proposed	Shovel PC-650- 4 M3	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6-9 Mtr	6-9 Mtr	
3m	Total area covered under excavation/pits	15.860 ha	13.079 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.17	1:0.19	
3o	Total area put in use under different heads at the end of year	37.849 ha	25.760 ha	
3p	Production of ROM mineral during the last five year period as applicable	17-18 986884 18-19 871164 19-20 499614.40 20-21 498525.90 21-22 471444.50	17-18 771034 18-19 716159 19-20 485101 20-21 489772 21-22 398252	
3q	General remarks of inspecting officers on method of mining etc.			The working is done in pit-2. Inter calculated waste and screen reject is separated. Mine is worked 6-8 mtrs benches, 06 benches. Deep hole drilling & blasting 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)	Top soil, waste	Screen reject + waste	

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4b	Location of topsoil, OB and mineral reject dumps	As per MP	As per MP	
4c	Number of dumps within lease area and outside of lease area	03	03	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OUTSIDE UPL	OUTSIDE UPL	
4e	Number of active and alive dumps.	03	03	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	03	03	
4h	Whether Retaining wall or garland drain all along dumps are there.	YES	Constructed	
4i	Length of Retaining wall or garland drain all along dumps	Under construction	Under construction	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Waste generation is less. Screen reject dump no.-1 has not no protective measures / garland drain/ bunds. The drain/ toe wall maintained

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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.	Not applicable	Not applicable	
5b	Area under backfilling of mined out area	Not applicable	Not applicable	

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Not applicable	
5d	Total area fully reclaimed and rehabilitated	Not applicable	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No pits are proposed for back fill.

## 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).	Submitted	Submitted vide letter no UTCL/ JBLM /IBM/22-23/03 DATED 21/04/2022	
6b	Area available for rehabilitation (ha) .	No proposal for mined out benches.	NIL	
6c	afforestation done (ha).	No proposal for mined out benches.	NIL	
6d	No. of saplings planted during the year	No proposal for mined out benches.	NIL	
6e	Cumulative no .of plants	No proposal for mined out benches.	NIL	
6f	Any other method of rehabilitation	No proposal for mined out benches.	NIL	
6g	Cost incurred on watch and care during the year	No proposal for mined out benches.	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D		Pit Area- 9.50 Hect.	



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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1.500 Hect. / 1500 plants	4.434 Hect. / 4434 plants
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No Proposal	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No Proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly report Quarter II from (July to September) submitted	Report submitted on dated 04.10.2022

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Only plantation is done in Lease waste land Area and outside Lease colony etc.
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## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Cement Grade	Cement Grade	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	
7d	Any beneficiation process at mines	No Proposal	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral is sent to crusher for Screen reject separation. OB separated at Mines/ Inter calculated waste at Mines.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Very less	Recovery done.	
8b	Concurrent use or storage of topsoil	Store & Use	Store & Use	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB/ Rejects	OB & Screen reject	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	NIL	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500 Nos. /1.500 Hect	4434 Nos. /4.434 Hect.	
8g	Survival rate	80 %	75%	
8h	Water sprinkling on roads to control airborne dust	Yes	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Green Belt is developed in Mines, Mines office Area & Non-mineralised Area.

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**Compliance of Rule 45:**

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Annual Returns (H-8) 2021-22: - Submitted on dated 25/06/2022 Monthly Returns (F1) Month October -2022:- Submitted on 09/11/2022	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Shubham Saraswat Geologist- Prabhanjan.K. Mishra	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit Area- 9.80 GB- 2.450 Infra- 3.50	Within FA Limit
9d	Scrutiny of Annual return on afforestation	800 Nos./ 0.60 Hect	Done as per Plan.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Subgrade Mineral rejected below threshold.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocks	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive use	310.92 Rs/T
9h	Scrutiny of Annual return on fixed assets	FA= Rs. 439665473	
9k	Scrutiny of Annual return on mining machineries	ROCK DRILL (NON ELEC.) 100 MM 1 Non Electrical SHOVEL (HYDRAULIC) 2.1 CUM 3 Non Electrical TIPPER 12 CUM 7 Non Electrical LOAD HAUL DUMPER 20 CUM 3 Non Electrical DOZER 301 HP 1 Non Electrical WATER TANKER 10000 LITRE 1 Non Electrical OTHERS (NON-ELEC.) 110 2 Non Electrical	

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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
MCDR17	Rule 11(1)	07-DEC-22			

**Date :****( PUKHRAJ NENIVAL )**

Indian Bureau of Mines