

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : UP/SONEBHADRA/LST-2

Mine code : 38UPR56004

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 21-SEP-21
- (v) Prev.inspection date :

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 : M/S JAIPRAKASH ASSOCIATES LIMITED
correspondance 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

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	:	Renewal under rule 24 MCR1960	29-FEB-08
Plan/Scheme of Mining		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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	06 No. /600 Meter	17 No./2048 Meter	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Synergy Geotech/ 9.75 lakhs	Synergy Geotech/ 33.26 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 293.60 Ha.	G1 (71.043)	17 BH for mineral depth.
1e	Balance reserve as on 01/04/20	111-4 in Mio Ton 211-22 in Mio Ton 333-12 in Mio Ton	NH- 421.784 hect. (As per DGM Drilling)	reserves as on 01.04.2021

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	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block-2 Pit-2 , Bhalua	Block-2 Pit-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	1:0.28	1:0.19	
2d	Quantity of topsoil generation in m3	NIL Very Less	Very Less	

2e Quantity of overburden generation in m3 61527.2 M3 59109 M3

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. pit was not developed in western direction as planned. deviation from plan, violation pointed out. excavation were observed with in 50mtr of HT pylons near pit 2, which were not as per plan , violation was pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	498525.90	489712.0	
3c	Recovery of sailable/usable mineral from ROM production	90	93.5	
3d	Quantity of mineral reject generation	61527 M3	59109 M3	

3e	Grade of mineral rejects generation and threshold value declared.	CaO<25	CaO<25	
3f	Quantity of sub grade mineral generation.	Not proposed	NA	
3g	Grade of sub grade mineral generation	Not proposed	NA	
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	NA	
3j	Provision of drilling and blasting in mineral benches	Proposed	Provided 6" & 4" Depth 9 Mtr	IBH-10 ICM-260
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 Hect.	9.580 Hect.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.28	1:0.19	
3o	Total area put in use under different heads at the end of year	37.849	25.760	

3p	Production of	17-18 986884	17-18 771034
	ROM mineral	18-19 871164	18-19 716159
	during the last	19-20	19-20 485101
	five year period	499614.40	20-21 489772
	as applicable	20-21	
		498525.90	

3q General remarks
of inspecting
officers on
method of mining
etc.

The working is
done in pit-2.
Inter calulated
waste and screen
reject is
separated. Mine is
worked in 6-8 mtrs
benches, 06
benches. Deep hole
drilling &
blasting is done.
pit was not
developed in
western direction
as
planned. deviation
from
plan, violation
pointed
out. excavation
were observed with
in 50mtr of HT
pylons near pit
2, which were not
as per plan
, violation was
pointed out.

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	
4b	Location of topsoil, OB and mineral reject dumps	Location (3 location)	Location(3 location)	As per plan

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.	Proposed	PROVIDED	Missing in one of the dumps .violation was pointed out
4i	Length of Retaining wall or garland drain all along dumps	Not given	Approx.-400mtr	
4j	Number of settling ponds	01	01	PROVIDED
4k	Specific comments of inspecting officer on waste dump management			Waste generation is slightly less. protective structures to prevent escape of material from dump, such as checkdam ,drain at foot of dump/bund in block 2 in west of pit 2 for dump (located between E-704200-704400 and N2705600-2705800)wer not constructed/maintained. violation pointed out for same.

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.	No proposal	NA	
5b	Area under backfilling of mined out area	No proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed	Very less top soil	Used for plantation in other area
5d	Total area fully reclaimed and rehabilitated	No proposal	NA	
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/ BHALUA /IBM/21-22/16 DATED 31/05/2021	
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.
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	0.50 Hect. / 500 plants	0.60 Hect. / 800 plants	
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	No Proposal	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Being Done	Air/ Noise/ Water being done
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.

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.	No Defined bench.
8b	Concurrent use or storage of topsoil	Store & Use	Store & Use	
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)	500 Nos. /0.5 Hect.	800 Nos. /0.6 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.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted./annual return submitted.		Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer- Shubham Saraswat Geologist- Prabhanjan.K. Mishra	Information given
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 reject below threshold.	Rejected	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocks	No stocks	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive use	Captive use	
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	List of Machinery given.

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)	13-OCT-21	MCDR17	Rule 11(1)	13-OCT-21 14-JAN-22
MCDR17	Rule 37(2)	13-OCT-21			07-DEC-21

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines