

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SIDHI/LST-06

Mine code : 38MPR41004

- (i) Name of the Inspecting : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Sandeep Sinha (GM Mines) & Ashish Meshram (Manag
Official with
Designation
- (iv) Date of Inspection : 01-SEP-21
- (v) Prev.inspection date : 13-JAN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHUDHGAWNA (60.67)**
- (b) **Registration NO.** : **IBM/441/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SIDHI
Village : BHUDGAUNA
Taluka : RAMPUR NAIKIN
Post office : BHARATPUR
Pin Code : 486776
FAX No. : 912266917901
E-mail : kailash.jhanwar@adityabirla
Phone : +912266917800/66917801
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : JAYPEE SIDHI CEMENT PLANT, DIST.
correspondance P.O. BHARATPUR
DIST. SIDHI (M.P.) 486776
3. (a) Lease Number : MPR2568
- (b) Lease area : 60.67
- (c) Period of lease : 10
- (d) Date of Expiry : 20-MAR-27
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : JAIPRAKASH ASSOCIATES LIMITED
JAYPEE SIDHI CEMENT PLANT,
P.O. BHARATPUR, DIST. SIDHI
(M.P.) SIDHI MADHYA PRADESH
Phone:276701, 276714
FAX :07802-276715

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 18-MAR-15
Plan/Scheme of Mining MP review under 17(1) MCR 2016 17-JAN-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	7 BH	0 BH	Backlog-violation pointed out
1b	Exploration over lease area for geological axis 1 or 2	-	-	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	G1: 16.249 ha G2: 0.901 ha	this is proposed to bring.
1e	Balance reserve as on 01/04/20		7.073 MT as on 01/04/21	
1f	General remarks of inspecting officers on geology, exploration etc			The limestone of Rohtas Stage and the overlying Kaimur quartzite/sandstone are the only litho-units which can be observed on the spurs formed along the hill slopes of Kaimur Hill. The valley area is under a cover of soil and talus. The limestone horizon occurring below a cover of soil with talus as encountered during exploration is generally grey to dark grey in colour and fine grained in nature.violation pointed out for backlog in exploration.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E 536184 TO 536613 & N 2691787 TO 2692250	E 536242 to 536403& N 2691837 to 2692108	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil-0, Over burden-2, Ore -2	Top soil-0, Over burden-2, 1	Ore -
2c	Stripping ratio or ore to OB ratio	1:0.56	1:0.56	
2d	Quantity of topsoil generation in m3	1875 m3	1750 m3	Stored & use
2e	Quantity of overburden generation in m3	150000 m3	140347.0 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There are two benches in O/B waste. Mining is restricted upto 280mrl . Mine is developed in benches of 6mtr ON and up to 8mtr in lstone. Planed -2.7 lac and raised 2.13 lac

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	270000 T	213421 T	

3c	Recovery of sailable/usable mineral from ROM production	Nil	Nil
3d	Quantity of mineral reject generation	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No sub grade Mineral	No sub grade Mineral
3g	Grade of sub grade mineral generation	-	-
3h	Manual / Mechanised method adopted for segregating from ROM	N/A	N/A
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N/A	N/A
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	10.28Ha.	3.38 Ha.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.56	1:0.66	T/M3 (ore/waste)
3o	Total area put in use under different heads at the end of year	13.91 Ha.	5.84 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 270000 2020-21: 270000	2019-20: 6114 2020-21: 213421	Mines commence by 19.02.2020
3q	General remarks of inspecting officers on method of mining etc.			The mine has two benches in L/s and two benches in waste. Opencast mining with 4'' blast hole dia machine is done .8 mtr benches height.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB and mineral reject dumps	E 536857 to 537081 & N 2691840 to 2692061	Dump1 E 536160 to 536330 & N 2691910 to 2691770 Dump2 E 536170 to 536250 & N 2692100 to 2692200	One dump ais not created due to less mining since beginning.
4c	Number of dumps within lease area and outside of lease area	3	2	Within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-	-	Dump outside of UPL

4e	Number of active and alive dumps.	3	2	Dump is Active in nature
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	03	02	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	RW-343 m GD-343 m	RW-100 GD-350	
4j	Number of settling ponds	Nil	01	
4k	Specific comments of inspecting officer on waste dump management			Retaining wall, drain maintained. Dump height up to 9-10 Mtr is made.

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

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal for backfilling.
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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	Copy submitted	PMCP report sent to IBM for FY 2020-21.
6b	Area available for rehabilitation (ha) .	No Proposal for worked out benches.	Nil	
6c	afforestation done (ha).	No Proposal for worked out benches.	Nil	
6d	No. of saplings planted during the year	No Proposal for worked out benches	Nil	
6e	Cumulative no .of plants	No Proposal for worked out benches.	Nil	
6f	Any other method of rehabilitation	No Proposal for worked out benches.	Nil	
6g	Cost incurred on watch and care during the year	No Proposal for worked out benches.	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0	-	No area matured .it is new mine.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0	-	No area matured .it is new mine.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0	-	No area matured .it is new mine.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	0	-	No area matured .it is new mine.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	0	-	No area matured .it is new mine.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2020 Nos.	2000 Nos.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 Ha.	1.0 Ha.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By plantation	By plantation	

6p	Compliance of environmental monitoring (core zone and buffer zone)	Within Permissible limits	Within Permissible limits	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environment monitoring is done. plantation done in green belt. some protective measures and post plantation care need to be done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	RoM Dispatched	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	RoM	Nil	Cement grade Limestone
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Cement grade limestone is mined & sent to crusher.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Store & use	Store & use	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NA	No proposal in the reporting year
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NA	No proposal in the reporting year
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 plant on 1 hect area	2000 plant on 1 hect area	
8g	Survival rate	>80%	30 %	survival rate very poor.violation issued for same
8h	Water sprinkling on roads to control airborne dust	Proposed	done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Survival is poor .green belt is made around mine.violation issued to correct survival rate which is around 30%.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns Submitted for July21. Submitted Annual return for FY'2020-21.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer, Geologist and Manager: Mukesh Kumar Geologist: Ashish Meshram M.E: Mukesh Kumar		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit area=3.38 ha Dump=1.26 ha Road=0.2 hact	Within FA	
9d	Scrutiny of Annual return on afforestation	2000 nos	observed survival rate is poor.violation is issued to correct same.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL, No reject		

9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stock
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value - 0 Ex-Mine Price & Cost of (captive use) Production is same in Ex-Mine price case of captive lease - Rs. 253.20 / tone Production costs- Rs.253.20/tone
9h	Scrutiny of Annual return on fixed assets	2233700163 for all seven mines of group.
9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Shovel (HYDRAULIC) 2.6 Cum 1 TIPPER 25.0 Tone 5 ROCK DRILL (NONELEC.) 100.0 MM 1 EXPLOSIVE VAN 5.000 t 1

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			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines