

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/SIDHI/LST/8

Mine code : 38MPR41005

- (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 : 01-SEP-21
- (v) Prev.inspection date : 13-JAN-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHUDHGAUNA (87.992)**
- (b) **Registration NO.** : **IBM/720/2011/DEH**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SIDHI
Village : BHUDHGAUNA
Taluka : RAMPUR NAIKIN
Post office : BHARATPUR
Pin Code : 486776
FAX No. :
E-mail :
Phone :
- (f) Police Station : BHARATPUR
- (g) First opening date : 01-APR-16
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : MPR2569
- (b) Lease area : 87.99
- (c) Period of lease :
- (d) Date of Expiry : 28-MAR-33
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.
6. Date of approval of Mining : MP review under 17(1) MCR 2016 24-MAR-17
Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 02-JUL-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	08 BH	05 BH	03 BH Backlog
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	M/s Central Drilling Associates carried out exploration during 2019-20. Core drilling expenses: 300425/-rs Core boxes: 20000/-rs Sample preparation : 29550/-rs Logging : 19700/-rs Total expenditure: Rs. 3,69,675/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G1: 76.237 ha G2: 11.755 ha	
1e	Balance reserve as on 01/04/20	-	16.964 MT	

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 shortfall in drilled exploratory boreholes.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit 1 & 2: E 535679 to 536050 & N 2692297 to 2692645	E 535733 to E 535982 & N 2692286 to N 2692573	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil-0, Over burden-0, Ore -3	Top soil-0, Over burden-2, 3	Ore -
2c	Stripping ratio or ore to OB ratio	1:0.26	1:0.69	T:M3

2d	Quantity of topsoil generation in m3	601 m3	850 m3	
2e	Quantity of overburden generation in m3	191890 m3	198284.0 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Pit in development by O/c method The mining is plan up to depth of 295mrl from top. Upto 260mtr OB depth from 0 to up to 25 mtr depending on location.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	Merged
3b	Quantity of ROM mineral production proposed	600000 T	286117 T	*Mining operation commence by 10.02.2020. Limestone requirement was less by cement plant.
3c	Recovery of sailable/usable mineral from ROM production	No Proposal	Nil	ROM supplied to factory.
3d	Quantity of mineral reject generation	No Proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	No sub grade Mineral

3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	NA	
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	4'' dia machine 8mtr, LM-100
3k	Provision of mining machineries in mineral benches	Yes	Yes	0.9m3 capacity , 25T tipper
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 8m	Yes 8m	8m
3m	Total area covered under excavation/pits	7.23 Ha.	4.960 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.26	1:0.69	
3o	Total area put in use under different heads at the end of year	15.11 Ha.	6.864 Ha.	

3p	Production of ROM mineral during the last five year period as applicable	2019-20: 600000 2020-21: 600000	2019-20: 30135 2020-21 : 286117*	*Mining operation commence by 10.02.2020. Limestone requirement was less by cement plant due to covid19. Plan modified for three years for capacity increase ,deley in EC grant. Exposing top and last year less depth achieved.
3q	General remarks of inspecting officers on method of mining etc.			Mechanized mining is done in benches of 8mtr x 8mtr using 4'' dia blast holes. RoM is supplied to crusher at plant by 25 t Tipper capacity.violation issued for very less production than planned in mining plan.

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 536126 to 536362 & N 2692557 to 2692850	E 536089 to 536242 & N 2692612 to 2692725	Dumping is dine within earmarked area.
4c	Number of dumps within lease area and outside of lease area	1	1	Within lease

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-	-	Dump outside of UPL in on non mineralized area.
4e	Number of active and alive dumps.	1	1	Dump is Active in nature
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	1	1	Active
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-259m GD-0.0m	RW-180.0m GD-150.0m	Dump is Active in nature.
4j	Number of settling ponds	Not proposed	1.0	
4k	Specific comments of inspecting officer on waste dump management			Approx. 8mtr height dump is maintained. drain and bund area maintained.

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
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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	Yes	PMCP report sent to IBM for FY 2020-21.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	Nil	Nil	
6e	Cumulative no .of plants	Nil	Nil	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0	-	No area mature .It is new mine.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0	-	No area mature .It is new mine.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0	-	No area mature .It is new mine.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	0	-	No area mature .It is new mine.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	0	-	No area mature .It is new mine.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 Nos.	2000 Nos.	In greenbelt near pillar no.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 Ha.	1.0 Ha.	In greenbelt near pillar no.
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 parameter monitoring is done. water sprinkling is done.
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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 dispatch	RoM dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Nil	
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			RoM limestone of cement grade is sent to plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	Concurrent use

8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent 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	No proposal in the reporting year	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in the reporting year	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 plant in 1 hect area	2000 plant in 1 hect area	
8g	Survival rate	>80%	40%	survival rate is poor than planned.50% of planned.violation issued.
8h	Water sprinkling on roads to control airborne dust	Proposed	Being done	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Green belt is developed in mines along road from BP 33 to 40, south direction of pit. The survival rate of plants is less. violation is pointed out for it.
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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 July'2021. 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: Rajkumar Singh		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	details are given.	-	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value,- 0 Ex-Mine price - Rs. 508.33/ tone Production costs- Rs. 508.33/tone	Ex-Mine Price & Cost of Production is same in case of captive lease	

9h Scrutiny of 2233700163 for
Annual return on all seven
fixed assets group of mines

9k Scrutiny of
Annual return on
mining
machineries

Type of machinery
Capacity of each
unit No.of units
BACK HOE 2.6 Cum 2
TIPPER 25.0 Tone 8
ROCK DRILL
(NONELEC.) 100.0
MM 1
Motor Grader
180.000 HP 1
WATER TANKER
5000.000 LITRE 1
EXPLOSIVE VAN
5.000 t 1

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)	13-OCT-21			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines