

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/1794/2022

MCDR inspection REPORT

Jabalpur regional office

Mine file No : UP/SONEBHADRA/LST-7

Mine code : 38UPR56003

- (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 : 23-NOV-22
- (v) Prev.inspection date : 03-FEB-20

PART-I : GENERAL INFORMATION

1. (a) Mine Name : JULGUL 350.383 HA
- (b) Registration NO. :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : UTTAR PRADESH
District : SONBHADRA
Village : BILLI MARKUNDI
Taluka : ROBERTTSGANJ
Post office : OBRA
Pin Code : 231207
FAX No. : 5445 - 265776
E-mail :
Phone : 5445 - 265776, 265801. 26!
- (f) Police Station :
- (g) First opening date : 16-NOV-07
- (h) Weekly day of rest :
2. Address for :
correspondance M/S JAIPRAKASH ASSOCIATES LIMITED
P.O.DALLA, DISTT. SONEBHADRA (U.P.) 231207
3. (a) Lease Number : UPR0225
- (b) Lease area : 350.39
- (c) Period of lease : 20
- (d) Date of Expiry : 13-DEC-21
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 :

Agent : Shri Ajay Sharma
M/s Jaiprakash Associates
Ltd. P.O. Dalla-231207
Distt. Sonbhadra UP
SONBHADRA UTTAR PRADESH
Phone:
FAX :

Mining Engineer

Name : ANAND KUMAR MISHRA, Full Time
Qualification : B.E. 9 Mining)
Appointment/ : 16-OCT-07
Termination date

Geologist

Name : ATUL GAHRANA, Full Time
Qualification : M.Sc. (Geology)
Appointment/ : 16-OCT-07
Termination date

Manager

Name : S.D.MAHTO
Qualification : Diploma in Mining and Ist class Mine Man
Appointment/ : 16-OCT-07
Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 09-JAN-03
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 26-OCT-07
MP review under 17(1) MCR 2016 15-MAY-17

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	12/1200.00	10/1302.50 m	
1b	Exploration over lease area for geological axis 1 or 2	NIL	13/1350.00 m	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Synergy Geotech / 25.20 lakhs	Synergy Geotech / 28.35 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	111-40.02 Mio Ton 211-33.56 Mio Ton 333-17.18 Mio Ton Total Reserve & Resources to 150/100 ML : 90.76 (Mio.T)	111-29.68Mio Ton 211-33.56 Mio Ton 333-17.18 Mio Ton Total Reserve & Resources to 150/100 ML : 80.42 (Mio.T)	

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

Geology: - The area is situated south of the Kaimur hills, Sone River, & east of Rihand River. Out of total ML area the Limestone formation is confined to mainly hilly portion or out cropped areas. The deposit of the area is bedded with 600 to 850 towards north. The Limestone formation is massive and dolomite patches and concealed under a thick alluvial cover.

Exploration: - Drilling has been done by 23 BH recently in year 2020-21 & 2021-22,

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Block 2 pit, Block 1 pit, Block 1 North	Block 2 pit, Block 1 pit, Block 1 North	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Interburden	Interburden	
2c	Stripping ratio or ore to OB ratio	1:0.29	1:0.26	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	331222.00 M3	233641.00 M3	

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development is done in 3 pits as per plan. O/B is interburden encountered in benches. Bench height of 9 meters is maintained and width of 10 meters. Waste in Soil/ Clay/ Shale/ high Magnesia reject Dolostone.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	03	
3b	Quantity of ROM mineral production proposed	2817484 Tones	2410862.63 Tones	
3c	Recovery of sailable/usable mineral from ROM production	Yes	Yes	
3d	Quantity of mineral reject generation	10% (313054)	5 % (156525)	
3e	Grade of mineral rejects generation and threshold value declared.	34 CaO%	26 Cao%	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Proposed	6" & 4" Depth 9 Mtr
3k	Provision of mining machineries in mineral benches	Proposed	PC-650- 4M3 Tipper- 25 T
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Suitable 9 Mtr	Yes, Suitable 9 Mtr
3m	Total area covered under excavation/pits	58.120 ha	53.880 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.29	1:0.26
3o	Total area put in use under different heads at the end of year	Total: 127.30 Hect. Pit: 58.210, Dump-15.56, Road: 3.69Hect, Infra.42.140, office	Pit: 53.880 Waste: 13.510 Infra.: 45.54 Within FA limit.
3p	Production of ROM mineral during the last five year period as applicable	17-18 2518475 18-19 2433161 19-20 2679211 20-21 2761353 21-22 2817484	17-18 1627739 18-19 1906108 19-20 2318907 20-21 2084496 21-22 2410863

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3q	General remarks of inspecting officers on method of mining etc.	Mine is development between 234 RL - 173 RL. It has benches 8 in pit. Mechanised mining is done by using 6"/ 4" drill, 9mtr bench and width with 25 tons tipper & 4 m3 shovel.
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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)	OB & Reject Dump	OB & Reject Dump	
4b	Location of topsoil, OB and mineral reject dumps	Soil/ Dumps	Soil/ Dumps	
4c	Number of dumps within lease area and outside of lease area	Reject outside-07 Reject within-01	Reject outside-07 Reject within-01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside	Outside, On non-mineralized area.	
4e	Number of active and alive dumps.	07 + 01	07 + 01	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	07 + 01	07 + 01	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	Dump-Block-2 South
4i	Length of Retaining wall or garland drain all along dumps	Measure	Measure	
4j	Number of settling ponds	02	02	

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4k	Specific comments of inspecting officer on waste dump management			The dumps are mostly active. Garland drain/ Bunds are made one dump in south of Block-2, the drain bund is not made.
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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.	No proposal	Not applicable	
5b	Area under backfilling of mined out area	No proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stored & Use	Store & Use	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling proposal as pit is working

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	Not applicable	

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6c	afforestation done (ha).	No proposal for mined out benches	Not applicable
6d	No. of saplings planted during the year	No proposal for mined out benches	Not applicable
6e	Cumulative no .of plants	No proposal for mined out benches	Not applicable
6f	Any other method of rehabilitation	No proposal for mined out benches	Not applicable
6g	Cost incurred on watch and care during the year	No proposal for mined out benches.	Not applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	50 Hectare - Pit Area
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 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

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2500 nos. plants on 2.55 hect hect.	2660 Nos. plants 2.66 hect.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable	
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	Air/ Noise/ Water being done.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environment monitoring is done. Plantation is done on non-mineralised Area in Mines. Some plantation is done outside lease.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	Reject separation at crusher
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	

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7d	Any beneficiation process at mines	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The screen reject is separated at crusher and cement grade limestone is sent to factory by conveyor belt.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	Yes	
8b	Concurrent use or storage of topsoil	Store & Use in plantation	Store & Use in plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste rock & reject.	Waste rock & reject.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 Nos.	2660 Nos.	
8g	Survival rate	80%	65%	

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8h	Water sprinkling Proposed on roads to control airborne dust	Yes done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plants are seen in 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		Annual Returns (H-8) 2021-22: - Submitted on dated 25/06/2022 Monthly Returns (F1) Month October -2022:- Submitted on 09/11/2022	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer: - Tridev Kant Tripathi. Geologist:- Atul Gahrana	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Pit- 53.880 Hect. 13.510 Hect. 45.840 Hect. Infra	
9d	Scrutiny of Annual return on afforestation		2600 Nos. Inside 10000 Nos. Outside	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		22% CaO, .	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		No stocks available	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		Captive use. Ex Mine 302.32 Rs / T. CoP-302.32Rs/T, Exmine.	

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9h	Scrutiny of Annual return on fixed assets	FA= Rs. 4455270627
9k	Scrutiny of Annual return on mining machineries	ROCK DRILL (NON ELEC.) 150 MM 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 350 CUM 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.100 CUM 2 Non Electrical Opencast TIPPER 12 CUM 28 Non Electrical Opencast LOAD HAUL DUMPER 20 CUM 3 Non Electrical Opencast DOZER 301 HP 1 Non Electrical Opencast WATER TANKER 12000 LITRE 1 Non Electrical Opencast OTHERS (NON-ELEC.) 110 2 Non Electrical Opencast JEEP/ TRACTOR 25HP 1 Non Electrical Opencast

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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)	07-DEC-22			
Rule 63		07-DEC-22			

Date :**(PUKHRAJ NENIVAL)**

Indian Bureau of Mines