

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : UP/SONEBHADRA/LST-7

Mine code : 38UPR56003

- (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** : **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. 261
- (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

5. Name and Address of the

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

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

Agent : Shri Ajay Sharma
 M/s Jaiprakash Associates
 Ltd. P.O. Dalla-231207
 Distt. Sonbhadra UP
 SONEBHADRA 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	12/1200	23/2653	Upto Sept. 2021
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Synergy Geotech / 19.50 lakhs	Synergy Geotech / 43.10 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- 31mioT, 211- 34mioT, 334-17mioT	As on 01/04/21
1f	General remarks of inspecting officers on geology, exploration etc			<p>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.</p> <p>Exploration: - Drilling has been done by 23 BH recently in year 2020-21,</p>

Development :

Sl.No.	Item	Propasals	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 .	Working is done with in 50mtr of Ht pllon.deviation ,violation issued.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Interburden	Interburden	
2c	Stripping ratio or ore to OB ratio	1:0.26	1:0.07	TON TO TON
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	163293 M3	93467 M3	Less OB/IB removed violation pointed out
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.the quantum of development is less .violation is pointed out for removing less OB/IB.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	03	03	
3b	Quantity of ROM mineral production proposed	2761353	2084496	74%
3c	Recovery of sailable/usable mineral from ROM production	Yes	Yes	
3d	Quantity of mineral reject generation	10% (306817)	5 % (50211)	
3e	Grade of mineral rejects generation and threshold value declared.	34 CaO	26 Cao	Screen Reject
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	N.A	N.A	
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.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	Proposed	6" & 4 " Depth 9 Mtr	IBH-10 ICM-260
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	50.210
3n	Ore to OB ratio for the pit/mine during the year.	-	-
3o	Total area put in use under different heads at the end of year	Total: 127.30 Hect. Pit: 58.20, Dump-15.56, Road: 3Hect, Infra.42.140,o ffice	Pit: 50.210 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	17-18 1627739 18-19 1906108 19-20 2318907 20-21 2084496

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. The quantity of overburden/interburden removed during the year is far less than planned quantity. violation issued. Excavation are observed with in 50 mtrs of powerlines in pit 2 which are not as per plan proposals. violation is issued.

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	Soil stock is seen.
4b	Location of topsoil, OB and mineral reject dumps	Soil /OB /reject-Dumps (many)	Soil /OB /reject-Dumps (many)	
4c	Number of dumps within lease area and outside of lease area	inside -07 outside-01	within -07 outside-01	On non mineralized area
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.	Proposed	Proposed	Not seen in Dump-Block-2 South.violation given
4i	Length of Retaining wall or garland drain all along dumps	Not given	-	
4j	Number of settling ponds	02	02	
4k	Specific comments of inspecting officer on waste dump management			The dumps are mostly active.Most of dumps have protective measures drain etc. Garland drain/ Bunds are not made in one dump in south of Block-2, violation for same are given

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	NIL	
5b	Area under backfilling of mined out area	No proposal	NIL	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	NIL	
5d	Total area fully reclaimed and rehabilitated	NP	NA	
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/ JULGUL /IBM/21-22/15 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	---	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
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	700 plants on 0.33 hect	1500 plants 0.80 hect. Area.
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	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)	-	Yes done	Environmental monitoring.
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.	NA	NA	Cement Grade
7d	Any beneficiation process at mines	Not proposed	NIL	

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.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Whatever recovered	Whatever recovered	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)	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	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)	NIL 700 Nos.	1000 Nos.	Within lease./dumps/green belt

8g	Survival rate	80%	50 %	Poor/less survival rate.needs improvement.violation issued.
8h	Water sprinkling on roads to control airborne dust	Proposed	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. survival rate of plantation done on dump close to bhalua colony is poor/less.violation issued for same to have better care and fencing.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted both up to August 2021.	submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Tridev Kant Tripathi. Geologist:- Atul Gahrana		Given
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Pit- 50.210 Hect. 13.510 Hect. 45.840 Hect. Infra	Within FA.
9d	Scrutiny of Annual return on afforestation		13000 Nos. Inside	On dump poor survival rate seen.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	22% CaO, .	given
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No stocks at mine head.	GIVEN
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive use. Ex Mine 350 Rs / T. CoP-350Rs/T, Exmine.	Info provided
9h	Scrutiny of Annual return on fixed assets	FA= Rs. 4455270627 for mine at end FY21 (March 21).	Information provide
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	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	MCDR17	Rule 37(2)	13-OCT-21 14-JAN-22

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines