

I/17076/2023

**MCDR inspection REPORT**

**Jabalpur regional office**

**Mine file No :** UP/SONEBHADRA/LST-7

**Mine code :** 38UPR56003

- (i) Name of the Inspecting : **S025** ) **IBRAHIM SHARIEF**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 01-AUG-23
- (v) Prev.inspection date : 31-JUL-23

**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** : 31-MAR-30
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	18 NO. OF BORE HOLES WITH 2160.00 meterage	15 bore holes drilled with 1678 meterage	Violation was pointed out
1b	Exploration over lease area for geological axis 1 or 2	Entire mineralised area to be explored in G1 scale. 0.29 Ha of G 2 area and 39.42 Ha of G4 area to be converted in to G1 scale	About 5 ha remaining area to be converted to G1 scale	Violation was pointed out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	lessee, Rs 4553454 spent on exploration as reported by lessee	Synergy Geotech is the contractor to carryout exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2	62.70 ha area to be explored	Entire area proposed to be explored is not completed	
1e	Balance reserve as on 01/04/20	As on 01.04.2022 111-12305392 Tonnes proposed to be depleted during 22-23- : 599526 Tonnes balance : 11705866 Tonnes	As on 01.04.2022 111-12305392 Tonnes Actual depleted during 22-23-: 367835 Tonnes balance : 11937557 Tonnes	

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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 15 BH recently in year 2022-23, Violation was pointed for deviation in exploration

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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-1-E-702221 to E-703170 & N2705060 to N 2705650 Pit 2- E-704223 to E-704980 & N2705430 to N 2705709	Within proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench for Top Soil, Ob and Mineral bench to be developed	Separate bench for top soil, Ob and Mineral development is found maintained	
2c	Stripping ratio or ore to OB ratio	1:0.53	1:0.09	

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2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	764952 T	218627.00 M3	Violation was pointed out for less development
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The developed i son lower side than the proposed, bench height is more than 9 meters in this regard Violation was pointed out for deviation

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	4000744 Tonnes	2394729.88 Tonnes	Violation was pointed out for less production
3c	Recovery of sailable/usable mineral from ROM production	95%	92%,	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	<34 CaO	26 % Cao	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted	Mechanised method adopted	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	No beneficiation study carried out	
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling (6" & 4" Depth 9.9 Mtr ) and Blasting using high explosives	Drilling and Blasting is being carried out as proposed	
3k	Provision of mining machineries in mineral benches	ROCK DRILL (NON ELEC.) 150 MM 2 SHOVEL (HYDRAULIC) 350 CUM 3 SHOVEL (HYDRAULIC) 2.100 CUM 2 TIPPER 12 CUM 28 LOAD HAUL DUMPER , 20 CUM, 3 DOZER 301 HP 1 WATER TANKER, 12000 LITRE, 1 OTHERS (NON-ELEC.) , 110, 2 JEEP/TRACTOR 25HP 1	ROCK DRILL (NON ELEC.) 150 MM 2 SHOVEL (HYDRAULIC) 350 CUM 3 SHOVEL (HYDRAULIC) 2.100 CUM 2 TIPPER 12 CUM 28 LOAD HAUL DUMPER , 20 CUM, 3 DOZER 301 HP 1 WATER TANKER, 12000 LITRE, 1 OTHERS (NON-ELEC.) , 110, 2 JEEP/TRACTOR 25HP 1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of more than 09 Mtr is observed	Bench height of more than 12 Mtr is observed	Violation was pointed
3m	Total area covered under excavation/pits	58.120	55.750	In Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.53	1:0.09	

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3o	Total area put in use under different heads at the end of year	Pit- 55.570 Hect. waste disposal 7.52 Hect. Infra plant building 45.840 Hect. plantation, garland drain etc,- 6.92 hect PMCP work- 5.464 Ha	Pit- 55.570 Hect. waste disposal 7.52 Hect. Infra plant building 45.840 Hect. plantation, garland drain etc,- 6.92 hect PMCP work- 5.464 Ha	Within FA limit
3p	Production of ROM mineral during the last five year period as applicable	18-19 2433161 19-20 2679211 20-21 2761353 21-22 2817484 22-23 4000724	18-19 1906108 19-20 2318907 20-21 2084496 21-22 2410862.643 22-23 2394729.88	
3q	General remarks of inspecting officers on method of mining etc.			Fully mechanized method of mining with deep hole drilling and blasting is being carried out. The working is being carried out done in pit-2. Production is less than the approved proposals, Mine is worked 12-15 mtrs bench height, violation was pointed out for above deviation..

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps of waste and mineral reject to be maintained	Separate dumps of waste and mineral reject maintained	waste found
4b	Location of topsoil, OB and mineral reject dumps	Soil/ Dumps		
4c	Number of dumps within lease area and outside of lease area	08	08	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	07 + 01	07 + 01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 1061 meters and Garland drain of 7086 meters during the year	Nil	
4j	Number of settling ponds	Nil	02	
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. Violation was pointed out for not constructing Retaining wall or garland drain all along dump

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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 as no area is matured for back-filling	Backfilling was carried out on Eastern side of pit-2 without complete extraction of ore	Violation was pointed out
5b	Area under backfilling of mined out area	No proposal	Found backfilled,	Violation was pointed out



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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	il	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling has been carried out without approved proposals hence violation was pointed out.

## 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).	To be submitted as per statute	Submitted in time	
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	1000 nos. plants on 0.500 hect.	18505 Nos. plants 12.336 hect. Area.	
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	No proposal for mined out benches.	Nil	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for mined out benches.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal for mined out benches.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for mined out benches.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal for mined out benches.	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal for mined out benches.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal for mined out benches.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal for mined out benches.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring (core zone & buffer zone) is to be done	Environment Monitoring is being carried out

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is being done as proposed, environment monitoring is being carried out. Backfilling is being carried out without approved proposal, in this regard violation was pointed out.
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## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM of 3400000 Tonnes produced to be dispatched	2394729.88 Tonnes of ROM produced is dispatched during the R.Y 2022-23	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical, by deploying screening	Mechanised screening is being used to sort grade wise minerals	
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	
7d	Any beneficiation process at mines	Dry crushing and Screening	Dry crushing and Screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral is sent to crushing & Screening plant to separate Screen reject which is below threshold value as reported thus upgrading the ROM ore

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for	Nil	

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8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps OB/ Rejects/ Screen Reject are proposed to be maintained	Separate dumps OB/ Screen Rejects are found maintained.	
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	On Eastern side of Pit-2 backfilling is being carried out	Violation was pointed out
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 Nos.	18505 Nos.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to be carried out 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 and around lease area to improve aesthetic beauty.

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**Compliance of Rule 45:**


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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual return & Monthly returns shall be submitted in Time as per statute	Annual return & Monthly returns are being submitted in Time Month of July -2023:- submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: - Tridev kant tripati Geologist:- Atul Gahrana	Mining Engineer: - Tridev kant tripati Geologist:- Atul Gahrana	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 55.570 Hect. waste disposal 7.52 Hect. Infra plant building 45.840 Hect. plantation, garland drain etc,- 6.92 hect PMCP work- 5.464 Ha	Pit- 55.570 Hect. waste disposal 7.52 Hect. Infra plant building 45.840 Hect. plantation, garland drain etc,- 6.92 hect PMCP work- 5.464 Ha	
9d	Scrutiny of Annual return on afforestation	18505 Nos. Inside 1030 Nos. Outside	18505 Nos. Inside 1030 Nos. Outside	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive use. Ex Mine 269.78 Rs / T. CoP-318.44 /T,Exmine.	As reported by lessee	Violation was pointed for different in EMP & CP
9h	Scrutiny of Annual return on fixed assets			FA= Rs. 4494621652

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9k	Scrutiny of Annual return on mining machineries	ROCK DRILL (NON ELEC.) 150 MM 2 SHOVEL (HYDRAULIC) 350 CUM 3 SHOVEL (HYDRAULIC) 2.100 CUM 2 TIPPER 12 CUM 28 LOAD HAUL DUMPER , 20 CUM, 3 DOZER 301 HP 1 WATER TANKER, 12000 LITRE, 1 OTHERS (NON- ELEC.) , 110, 2 JEEP/TRACTOR 25HP 1	ROCK DRILL (NON ELEC.) 150 MM 2 SHOVEL (HYDRAULIC) 350 CUM 3 SHOVEL (HYDRAULIC) 2.100 CUM 2 TIPPER 12 CUM 28 LOAD HAUL DUMPER , 20 CUM, 3 DOZER 301 HP 1 WATER TANKER, 12000 LITRE, 1 OTHERS (NON-ELEC.) , 110, 2 JEEP/TRACTOR 25HP 1
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**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)	08-SEP-23				
MCDR17 Rule 31(4)	08-SEP-23				
Rule 34	08-SEP-23				
Rule 45(7)	08-SEP-23				

**Date :****(IBRAHIM SHARIEF)**

Indian Bureau of Mines