

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/12258/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-135

Mine code : 38MPR47050

- (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 : 19-MAY-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : AMEHTA(10.016 H)
- (b) Registration NO. :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : KATNI  
Village :  
Taluka :  
Post office :  
Pin Code :  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SMT. SUMITRA GROVER  
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR2510
- (b) Lease area : 10.02
- (c) Period of lease : 40
- (d) Date of Expiry : 02-JAN-27
4. Mineral worked : LIMESTONE Main

I/12258/2023

## 5. Name and Address of the

Lessee : SUMITRA GROVER  
 CIVIL LINES KATNI MADHYA  
 PRADESH  
 Phone:N. A.  
 FAX :N. A.

Owner : SUMITRA GROVER  
 CIVIL LINES KATNI MADHYA  
 PRADESH  
 Phone: N. A.  
 FAX : N. A.

## Mining Engineer

Name : S.K.BATTACHARYA,Full Time  
 Qualification : Mines Foreman (Permit Manager)  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27-MAR-06
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	26-SEP-08
		Mining Scheme rule 12 MCDR1988	04-SEP-12
		MP review under 17(1) MCR 2016	31-MAR-17

I/12258/2023

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration during the F..Y 2021-22	Lessee drilled 4 bore holes during the year 2021-22	
1b	Exploration over lease area for geological axis 1 or 2	G1 scale of exploration to be carried out	Exploration had been done up to G2 scale level	Future exploration proposal is made to convert G1 scale.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee has to carry out exploration	Lessee carried out the explration	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire mineralised area has been explored in G2 and G3 level G2 : 8.63 ha G3 : 1.38 Ha,	Exploration is proposed in the review of Mining pan submitted recently.
1e	Balance reserve as on 01/04/20	Entire lease area to be explored in G1 scale	8.63 Ha G2 level to G1 1.38 Ha G3 level to G1	Exploration is proposal the recent mining plan submitted for approval to convert G2/ G3 to G1 level of exploration.

I/12258/2023

1f	General remarks of inspecting officers on geology, exploration etc	The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. limestone is soft and stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. The general strike of limestone is ENE- WSW and the amount of dip is about 5° to 45° with average dip of 25° towards North westerly.
----	--------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It is proposed to work Quarry-2 and develop it towards North and South and orientation along East-West direction bymaintaining bench height of 4.5 meters and width up to 10 meters.	Mining operations are found carried out encroaching safety zone of lease boundary on Eastern side of lease area between BP8 to BP12 and BP35/1 to BP37/3.	Violation was pointed out for deviation. Lessee proposed backfilling of the area in the recent mining plan submitted for approval.

I/12258/2023

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate bench for top soil, overburden and mineral has to be maintained separately for systematic mining.	Yes separate bench for top soil, overburden and mineral had been maintained for systematic mining.	
2c	Stripping ratio or ore to OB ratio	1 : 0.25	1 : 0.35	
2d	Quantity of topsoil generation in m3	13500 cum	4700 cum	Less generation as thickness of soil less than the anticipated
2e	Quantity of overburden generation in m3	10020 cum	21430 cum	OB generation is more due to more intercalated waste than the anticipated.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Bench height and width is found maintained as per proposal. Deviation in development was observed and violation was pointed out in this regard.

---

**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit is proposed for production	Production is being carried out from One Pit	
3b	Quantity of ROM mineral production proposed	100200	99900	in Tonnes
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal for generation of Mineral reject is anticipated	No Mineral reject generated	

I/12258/2023

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No proposal for generation of Sub grade ore is anticipated	No sub grade generated
3g	Grade of sub grade mineral generation	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method to be adopted for segregation of mineral	Mechanised method adopted for segregation of mineral
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal of carrying out any beneficiation study	Nil
3j	Provision of drilling and blasting in mineral benches	Deep hole Drilling and Blasting is proposed to excavate mineral with Spacing - 2.4-2.5 meters and Burden 2-2.2 meters using High explosives	Deep hole Drilling and Blasting is carried out in mineral bench as proposed.
3k	Provision of mining machineries in mineral benches	Excavator- 0.9 cum- 1 No., Dumper- 10 Tonne- 2 No. Rock Drill- 01 No.	Above machineries are found deployed in the lease
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes boom length of 0.9 cum capacity excavator is suitable for bench height of 6 meters.	Yes bench height of 6.0 meters is suitable with 0.9 cum capacity shovel.
3m	Total area covered under excavation/pits	5.80 Ha	3.83 Ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.25	1 : 0.35

I/12258/2023

3o	Total area put in use under different heads at the end of year	1. Covered under current (O/C) Workings : 5.80 2. Used for waste disposal- 2.160 3. Other Purpose : 0.872 Ha	1. Covered under current (O/C) Workings : 4.675 2.. Used for waste disposal- 2.160 3. Other Purpose : 0.872 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 100020 Tonnes 2018-19 : 99900 Tonnes 2019-20 : 99960 Tonnes 2020-21 : 99960 Tonnes 2021-22 : 100200 Tonnes	2017-18: 26135 Tonnes 2018-19 : 99800 Tonnes 2019-20 : 99170 Tonnes 2020-21 : 99750 Tonnes 2021-22 : 99900 Tonnes	
3q	General remarks of inspecting officers on method of mining etc.		Fully mechanised method of mining deploying HEMM is being carried out by maintaining bench height of 6 meters and width more than height.	

---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Only waste/ OB dump is maintained as there is no proposal of mineral reject generation. Top soil generation is very small and being utilised for plantation	OB OB dump is maintained.	

I/12258/2023

4b	Location of topsoil, OB and mineral reject dumps	7 no. of OB dumps within lease area	Dumping is carried out in earmarked place.	Dump-1 N2655660-2655730, E-453349- E-453416, Dump-2 -N 2655575 - N 2655660 E 453382 - E 453430, Dump-3- N 2655482 - N 2655553, E 453454 - E 453483, Dump-4 : N 2655292 - N 2655406, E 453267 - E 453507, Dump-5 N 2655451 - N 2655495 E 453197 - E 453288, Dump-6-N 2655506 - N 2655554 E 453238 - E 453296, Dump-7- N 2655544 - N 2655578 E 453315 - E 453345
4c	Number of dumps within lease area and outside of lease area	7no. of dumps within lease area	7 no. of dumps within lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are found within UPL	Dumps are found within UPL	as these are temporary dumps
4e	Number of active and alive dumps.	5 Dumps are Active	5 Dumps are Active	
4f	Number of dead dumps.	2 dumps are non active	2 dumps are non active	
4g	Number of dumps established.	No such proposal to establish the dumps	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal of constructing retain wall	Nil	Retaining wall is found along bottom periphery of waste dump
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil during the year	
4j	Number of settling ponds	No proposal of creating settling pond during the year	Not done	



I/12258/2023

4k	Specific comments of inspecting officer on waste dump management	Waste dump is being carried out within UPL and are temporary in nature.
----	------------------------------------------------------------------	-------------------------------------------------------------------------

---

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.	Entire mineral to be excavate before backfilling.	No area is backfilled during the year 2021-22	
5b	Area under backfilling of mined out area	There is no proposal to backfill the area during the year as there is no mined out area	Nil during the year	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of reclamation and rehabilitation and use of Top soil to restore the area.	Nil during the year	
5d	Total area fully reclaimed and rehabilitated	No proposal of reclamation and rehabilitation	Nil during the year	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area is matured for reclamation and rehabilitation

---

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).	Annual report on PMCP to be submitted on time as per statute	Not submitted	VIolation was pointed out

I/12258/2023

6b	Area available for rehabilitation (ha) .	No proposal of rehabilitation during the year	Not applicable	
6c	afforestation done (ha).	No proposal of plantation in worked out benches	Not applicable	UPL is not yet reached
6f	Any other method of rehabilitation	No such proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No voids available for backfilling	Nil	
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	No proposal	Nil	No waste land is available in the lease area

I/12258/2023

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Air, water, Noise to be carried out	Quarterly monitoring of Air, water, Noise is being carried out regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area is mature for reclamation and rehabilitation hence no backfilling is carried out.

---

**Mineral Conservation:**

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM ore produced shall be dispatched	99973 Tonnes of Limestone dispatch during the year	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method to be adopted for sorting of ore	Mechanised method for sorting of ore is adopted.	
7c	Different grade of mineral sorted out at mines.	Cement grade	Cement grade	
7d	Any beneficiation process at mines .	No such proposal of beneficiation study is made during the year	No study carried out durng the year	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Low grade ore is being blended with High grade ore for optimum utilisation of ore

---

**Environment:**


---

I/12258/2023

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is proposal of seperate removal of Top Soil so as to utilise for plantation	Top Soil is being excavated separately and store for it's use for plantation.	
8b	Concurrent use or storage of topsoil	To be used for plantation	Top soil is being used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)			
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal to use overburden to restore the land	NOT APPLICABLE	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	No area is matured for backfilling, hence no area is backfilled.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		440 no. of sapplings planted during the year	
8g	Survival rate	No proposal	About 80%	
8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress the dust with water sprinkling on Haul road, working area	Water sprinkling on Haul road, working area is being carried out to suppress the dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being carried out to improve aesthetic beauty

I/12258/2023

## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly return and Annual return shall be submitted in time as per statute	Annual return for the year 2021-22 and monthly returns are being submitted regularly in time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : B.P MISHRA Geologist : PUNEET SHUKLA	The above persons have been employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Covered under current (O/C) Workings : 9.53 Ha 2. Used for waste disposal : 0.2 Ha 3. Occupied by plant, buildings, residential, welfare buildings & roads : 0.05 Ha	Area put to use is nearly same as reported.	
9d	Scrutiny of Annual return on afforestation	102 noo. of sapplings planted within lease area and 115 no. sapplings planted out side lese area	Plantation as reported is observed in the field.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	18000 Tonnes	The above material is found stacked in the earmarked place.	
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	Sale Price = Rs.400, Ex mine Price : Rs.363.20, Cost of production = Rs. 296.81	As submitted by lessee.	
9h	Scrutiny of Annual return on fixed assets	Nil	Nil	

I/12258/2023

9k	Scrutiny of Annual return on mining machineries	Back Hoe- 0.9 cum-1 No., Tipper (10 cum)-6 No., 6 cum- 2 No., Blast hole drill- 1 No.	Above machines are deployed in the lease area
----	----------------------------------------------------------	---------------------------------------------------------------------------------------------------------	-----------------------------------------------------

---

I/12258/2023

**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)	11-JUL-22				
MCDR17 Rule 26(2)	11-JUL-22				
MCDR17 Rule 31(4)	11-JUL-22				
Rule 45(7)	11-JUL-22				
MCDR17 Rule 55(1)(3)	11-JUL-22				

Date :

(IBRAHIM SHARIEF)

Indian Bureau of Mines