

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/KATNI/LST-2

**Mine code :** 38MPR47078

- (i) Name of the Inspecting : **G007** ) **RAGHUBIR SHARAN GARG**  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Shalendra Kumar Jain, Mining Engineer and manage  
Official with  
Designation
- (iv) Date of Inspection : 12-JUL-22
- (v) Prev.inspection date : 21-JAN-10

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **AMEHTA ( 12.934 HA)**
- (b) **Registration NO.** : **IBM/1218/2011**
- (c) Category : A Mechanised
- (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 : -ramchandgour2106@gmail.com  
Phone : 07622403129, M.Phon. 942511
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : M/S RAM CHANDRA BADRI PRASAD GAUR  
correspondance : NADIPAR, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0258  
(b) Lease area : 12.93  
(c) Period of lease : 50  
(d) Date of Expiry : 10-MAY-26
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : RAM CHANDRA BADRI PRASAD GAUR  
NADIPAR KATNI MADHYA  
PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : RAM CHANDRA BADRI PRASAD GAUR  
NADIPAR KATNI MADHYA  
PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	08-JUL-05
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15-DEC-06
		Mining Scheme rule 12 MCDR1988	13-FEB-13
		MP modif under 17(3) MCR 2016	25-JAN-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 borholes, each of 50m deep	Proposed boreholes carried out.	Borehole logs of all the 8 boreholes received inthe office.
1b	Exploration over lease area for geological axis 1 or 2	As on 01/04/2022 entire lease area explored under G1 Level	Not required	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not furnished	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	as on 01/04/2022 balance area for exploration under G1 or G2 axis is Nil	Entire mineralised area explored under G1 or G2 level of exploration.
1e	Balance reserve as on 01/04/20	As on 01/04/2021 (111) 1322457tone & (122) 630844tone	As on 01/04/2022 (111) 918827 tone & (122) 630844tone	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	The ML area belongs to Vindhyan Super Group of rocks in the Kymore Series of limestone in Katni district. Shale parting of few centimeter to more than one meter between timestone beds are featured in the region.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development of pit were proposed to wards statury lease boundary lines towards North, South and East direction and toards west direction it was proposed upto E453550.	Advancement of pit towards North statutory 7.5m boundary line (BP No. 11 & 12), East statutory 7.5m boundary line (BP no.15 to 22) and South statutory 7.5m boundary line (BP No.26 & 27) not reached upto the proposed locations.	Deviation noticed and accordingly violation of rule 11(1) pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed 4.5m in top soil, 3.0m in shale & 5-6.5m in limestone.	proposed the benches of 4.5m in soil, 3.0m in shale and 5.0 to 6.5m in limestone were observed.	Benches in soil, shale and in limestone have been formed as per proposal.there is no deviation with respect to bench height.
2c	Stripping ratio or ore to OB ratio	1; 0.88	1:0.22	Development is comparetively less.
2d	Quantity of topsoil generation in m3	57645cum	Record of quantity of top soil removal not found maintained.	There is less development with respect to the proposal accordingly violation of rule 11(1) pointed out.
2e	Quantity of overburden generation in m3	125400cum	87872tonne or 48817cum	There is less development with respect to the proposal accordingly violation of rule 11(1) pointed out.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development work is comparatively less than the proposal resulting stripping ration is less than the proposed one. Development work is essential for going into the ultimate pit depth envisaged. For deviation violation of rule 11(1) pointed out.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	521500tone	403630tone	There is deviation of 23% for which violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	70% of over all volume ofexcavation	Reportedly recovery is as per proposal.	-
3d	Quantity of mineral reject generation	Nil	None	There is no reject generation.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable as there is no reject generation.	-
3f	Quantity of sub grade mineral generation.	Nil	Nil	generation of sub grademineral is not there.
3g	Grade of sub grade mineral generation	NA	NA	-

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3h	Manual / Mechanised method adopted for segregating from ROM	Any process of segrigation of limestone is not proposed.	Entire limestone produced from the mine are reportedly BF grade and same are directly dispatched to their stock yard lies out side of the lease area.	There is no issue regarding segrigation of mineral of different grade as entire mineral produced is BF grade.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not carried out	Not required.
3j	Provision of drilling and blasting in mineral benches	Proposed with 3.0mX4.0mX6.0m blast design.	As per proposal drilling and blasting practices are in use.	No deviation
3k	Provision of mining machineries in mineral benches	Hydr. Excavator 2.3cum 3Nos Atlas Copco 100mm No. Dumper 25 tonner 19 Nos.	Hydr. Excavator 3Nos Atlas Copco 3 No. Dumper tonner 16 Nos Pump 75lpm 01no.	0.90cum 100mm 25
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	9.4hect	9.01hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.88	1:2.21	-

3p	Production of ROM mineral during the last five year period as applicable	2017-18=NO PROPOSAL WAS GIVEN 2018-19=164629 2019-20=550095 2020-21=546835 2021-22 521500	2017-18=0 2018-19=156008 2019-20=50004 2020-21=164759 2021-22=403630
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3q	General remarks of inspecting officers on method of mining etc.	Method of mining in practice are quite suitable for the deposit.
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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)	Proposed	87072 tonne overburden generated during mining operation dumped separately where as 800tonne overburden waste is utilised for backfilling of mined out area as per approved proposal. There is no generation of mineral reject so separate dumping is not applicable. Separate record of soil generation not maintained however it was seen that top soil generated during mining has been utilised for reclamation of backfilled area.	-
4b	Location of topsoil, OB and mineral reject dumps	Proposed	As per proposal	-

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4c	Number of dumps within lease area and outside of lease area	Two Dumps , one-one for topsoil and OB waste rock within lease area., No dump out side of lease area.	As per proposal both the proposed dumps, for soil and OB waste were seen within lease area. Two another old dump lies on south part of lease area near BP No. 25,26,27 &28 and along BP no. 16 to 21 were also there at the begining of the year ,one of them seen intact where as it was also supposed to be rehandalled and mining operation in that part should have been covered under mining upto end of 2021-22.	Deviations pointed out under violation of rule 11(1).
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Overburden Waste dump and Top Soil dump both Proposed within ultimate pit limitpit limit	Both, OB & Top soil dumps are within ultimate pit limit.	There are area constient. Entire lease area is potential for mineralisation. A large portion of the lease area i.e. about 9.10 hect area covered by existing pit and scope of backfilling is limited and that was opened in year 2021-22 only in which lessee has already started backfilling.
4e	Number of active and alive dumps.	Two, one for OB & another for topm soil	As per proposal	No deviation

4f	Number of dead dumps.	No,	There two another OB Dumps at the begining of the year 2021-22, first of them lies near BP. 25,26,27&28 and second one stretches along BP 16 to 21, both of which were supposed to be rehandlled for extraction of mineral beneath it but in fact second of them have been rehandlled but first of them have not been rehandlled and same is still available at the site.	Deviation pointed out through violation of rule 11(1)
4g	Number of dumps established.	No	Nil	-
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	-	800m	-
4j	Number of settling ponds	Not proposed	Nil	-
4k	Specific comments of inspecting officer on waste dump management			Overall waste dump management are not alarming issue. It is being managed by external dumping. Verry soon sufficient mined out area will be available for backfilling which will accomodate OB waste material generated during mining as well as OB dumps to be rehandlled for extension of pits upto the proposed pit limit.

## 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.	Full extraction of mineral proposed	Work is in progress, upto the end of 2021-22 no mined out aerea was available for backfilling. Very soon mined out area will be avelable for backfilling.	
5b	Area under backfilling of mined out area	0.3hect	0.2hect	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Propopsed for topping over backfilled area of 0.3hect	As per proposal topping of top soil over backfilled area were seen . Remaining quantity of top soil reportedly dumped at site selected for the purpose.	Details of top soil generated during the year not maintained. Reportedly it was partially utilised for topping over backfilled area and partially in dumping at site selected for the purpose.
5d	Total area fully reclaimed and rehabilitated	0.2hect	0.2hect	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			More orless backfilling of mined out area initiated during the year under review

## 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	
6b	Area available for rehabilitation (ha) .	0.3hect	0.2hect	

6d	No. of saplings planted during the year	500	total 350 saplings planted , 150 saplings within lease area and 200 out side of the lease area	
6e	Cumulative no .of plants	1000	2900	Considerable a ggod no. of plantation out side of the lease area particularly all along approach road to mine office, and nearby area of mine office have been carried out.
6f	Any other method of rehabilitation	Not proposed	Not adopted	
6g	Cost incurred on watch and care during the year	Not proposed	Rs. 3,00,000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	0.3hect	0.2hect	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.2hect	0.2hect	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.3hect	0.2hect	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	not proposed	Nil	
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	Not Proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Environmental monitoring carried out and maintained record.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Over in all compliance of PMCP are acceptable.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	521500tone	403630tone	77.4% of targetted production achieved. Deviation pointed out.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manually	Entire mineral produced from the mine is Steel grade and the same is either dispatched from mine itself to buyers or from stackyard lies outside of the lease area after manual sorting.	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Not required as whatever mineral produced from the mine is Steel grade and as per demond mineral is also dispatched to consignee directly from the mine.	
7d	Any beneficiation process at mines .	Not proposed.	Not adopted.	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	There is no issue regarding mineral conservation and beneficiation issue. Whatever mineral produced from the mine is steel grade and same are either supplied from the mine directly to consumers or it is stacked at their stack yard lies out side of the lease area . Ore accounting issues rises as mineral is dispatched from mine as well as from their stack yard lies out side of the lease area and entire thing are being reported by statutory returns of the mine only. So many times mismatch on dispatches
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Being done	
8b	Concurrent use or storage of topsoil	Proposed Both concurrent use and storage	Both concurrent use and storage of top soil done as perproposal.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for separate dumping of top soil and overburden	As per proposal separate dumping of top soil and overbureden noticed.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Implimented.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	About 0.2hect mined out area have been rclamed and rehabilitated during the year.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	About 200 sapling planted out side of the lease area during the year.
8g	Survival rate	80%	75%
8h	Water sprinkling on roads to control airborne dust	Proposed	In practice

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area needs improvement as in a large scale mining activities are going on in and surrounding of mining lease area since long back. Only statutory barrier zones are available where dumps of OB wast rock can be seen. Attampts of lessee towards plantation over reclaimed area as well as opremises of mine office seen very nice. health of plants are realy very good.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. sbmitted upto- June- 2022 A.R. submitted upto- 2021-22	Monthly as well as Annual Return were submitted within time limit.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri ShalendraKumar Jain appointed as Mining Eng. & Manager Mines and Shri Akhilesh Patel as Geologist	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares) (i) Covered under current (O/C) Workings	9.01 hect  (ii) Occupied by plant, buildings, residential, welfare buildings & roads 0.6hect (iii) Used for waste disposal	2.65hect
9d	Scrutiny of Annual return on afforestation		Number of trees planted during the year within lease area 150 nos. and outside lease area 200 nos.		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Reject generation were not envisaged in the approved mining plan. Practically there is no reject generation . Accordingly quantity of reject generated during the year is indicated as 0 appers correct.	Information given in the return with respect to reject generation is acceptable.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Closing stock at mine head (in tonne) 55238.982 tonne.	There are mismatching figures on opening stock, production and closing stock at mine head. Further there are mismatching figures on grade wise dispatch from mine and consignee wise details of dispatches during the year. Violation under 45(7) pointed out.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price Rs. 286.930per tonne. for BF grade Limestone Sal Vallue Rs 286.92 after deduction Cost of production Rs.259.14	1.. After deductions from the Av. sale vallue Ex mine price is OK 2. In calculation of Cost of production there are lapses .	For the deficiencies observed in AR, violation pointed out.
9h	Scrutiny of Annual return on fixed assets	given as Rs. 25723311/-	Acceptable	
9k	Scrutiny of Annual return on mining machineries	Given	Details of machineries and their no. given in the AR,2021-22.	

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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)	03-AUG-22			
MCDR17	Rule 12(6)	03-AUG-22			
MCDR17	Rule 34(1)	03-AUG-22			
	Rule 45(7)	03-AUG-22			

**Date :**

**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines