

I/4556/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-237

Mine code : 38MPR47019

- (i) Name of the Inspecting : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Anant Bagadia, Lessee Representative
Official with
Designation
- (iv) Date of Inspection : 23-DEC-22
- (v) Prev.inspection date : 05-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMETHA**
- (b) **Registration NO.** : **IBM/5522/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : AMETHA
Taluka : V.GARH
Post office :
Pin Code :
FAX No. : 07622408889
E-mail : msbgroup@rediffmail.com
Phone : 07622408889
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 23-AUG-78
- (h) Weekly day of rest : SUN
2. Address for : SHRI KAILASH CHAND BAGARIA
correspondance : STATION ROAD, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0220
- (b) Lease area : 2.82
- (c) Period of lease : 10
- (d) Date of Expiry : 04-DEC-91
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : KAILASH CHAND BAGARIA
STATION ROAD KATNI KATNI
MADHYA PRADESH
Phone:09425330680/9893158602
FAX :NIL

Owner : KAILASH CHAND BAGARIA
M/S K.C.BAGARIA SONS
STATION ROAD, KATNI MADHYA
PRADESH
Phone: 07622-223767/ 9
FAX : 07622-222771

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	18-JUL-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	21-MAY-09
		Mining Scheme rule 12 MCDR1988	27-FEB-12
		Renewal under rule 24 MCR1960	25-JUN-15
		MP review under 17(1) MCR 2016	29-JUN-20

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	02 nos. of core bore holes in the year 2020-21 & 02 nos. of core bore holes in the year 2021-22 were proposed.	Not done as per proposal.	Violation under rule 11(1) pointed out.
1b	Exploration over lease area for geological axis 1 or 2	Potential Mineralised area explored up to G1 level.	Potential Mineralised area explored up to G1 level.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	02 nos. of core bore holes in the year 2020-21 & 02 nos. of core bore holes in the year 2021-22 were proposed.	Not done as per proposal.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Potential Mineralised area explored up to G1 level.	Potential Mineralised area explored up to G1 level.	
1e	Balance reserve as on 01/04/20		As per Ar 2021-22 - Balance reserve as on 01-04-2022 111- 1250266 T 211-1059558 T 333- 1090331 T	
1f	General remarks of inspecting officers on geology, exploration etc			Lease area belongs to vindhyan super group of rocks of rohtas formation, limestone of the area fine grained to medium grained, hard and compact in nature.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development was proposed to do in the west direction & in the depth of the quarry	Worked done as per proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	separate benches proposed and maintained in soil and in mineral limestone.
2c	Stripping ratio or ore to OB ratio	1:0.11	1:0.07
2d	Quantity of topsoil generation in m3	Not proposed	Not applicable
2e	Quantity of overburden generation in m3	8876 cubic meter	8000 cubice meter
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Worked done as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit only one quarry	Single Pit	
3b	Quantity of ROM mineral production proposed	139798 tonnes	93445 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	70 % Limestone	70 to 75 % Limestone	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	Not Proposed	Not applicable	

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3g	Grade of sub grade mineral generation	Not Proposed	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Manual and Mechanised method proposed for rom segregation	By Manual means Dolomite is being separate from Limestone, screening is also being used
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	proposed	as and when required
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches for excavation and transportataion L&T-PC 210 Hydra excavator -01 Dumper 16 T -2 Dumper 10 T - 2 Pump 650L/MN -01 Water tanker 2000 ltr - 001
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	proposed heigth and width suitable for mining as per approved mining plan B-3 - 1.5 mtr B-4 - 7 mtr B-5 - 5.25 mtr B-6 - 5.9 mtr
3m	Total area covered under excavation/pits	4.560 ha	4.560 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11	1:0.07
3o	Total area put in use under different heads at the end of year		Covered under current pit - 4.560 ha Waste Dump - 1.016 ha Plant, Building - 0.300 ha Green Belt - 0.500 ha

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3p	Production of ROM mineral during the last five year period as applicable	2017-18=125550 2018-19=120117 2019-20=155003 2020-21 - 120572 2021-22 - 139798	2017-18=33357 2018-19=33338 2019-20=154197 2020-21 - 2021-22 - 93445	units are in tonnes
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3q	General remarks of inspecting officers on method of mining etc.	Workign is as per proposal, separate benches maintained in top sol and mineral, HEMM is being used in mineral benches
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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	separate dumping for soil and waste/ob is being maintained in the ML area	
4b	Location of topsoil, OB and mineral reject dumps	in the south eastern and north western portion of the ML area	dumps are in the specified location	
4c	Number of dumps within lease area and outside of lease area	05 dumps in the lease area.	As per proposal	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within the UPL	Within the UPL	
4e	Number of active and alive dumps.	two	1-OB/waste and 1-Soil	
4f	Number of dead dumps.	03	03	
4g	Number of dumps established.	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Constructed	
4i	Length of Retaining wall or garland drain all along dumps	Proposed	Along the dump and haul rod side	
4j	Number of settling ponds	Not proposed	Nil	

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4k	Specific comments of inspecting officer on waste dump management	separate dumping for soil and waste/ob is being maintained in the ML area.
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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.	Full extraction of mineral proposed	full extraction of mineral under progress upto the UPD	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	No soil generated warkign was in old quarry increasing the depth	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Full extraction of the Mineral under process no place available for backfilling

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	
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha).	Not Proposed	Nil	

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6d	No. of saplings planted during the year	Already planted	100 nos only on one side of 7.5 meter barrier zone
6e	Cumulative no .of plants	Not specified	Not specified
6f	Any other method of rehabilitation	Not Proposed	Nil
6g	Cost incurred on watch and care during the year	Not Proposed	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	Nil
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

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	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	Carried out as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			It was observed during inspection that the lessee had been carrying out PMCP related works as per proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting before dispatch proposed	Grade wise sorting being done before dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual and Mechanical Both	Manual Method adopted for sepration of Dolomite from Limestone Mechanical Method adopted for Segregation of waste from Limestone	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Grade wise sorting is being done before dispatch
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	as generated soil is used for plantation over barrier zone	
8b	Concurrent use or storage of topsoil	Proposed	as and when generated as the working increased in depth wise minimum amount of soil generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	Separate dumping of waste and soil is placed in the mine.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	as per proposal	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	Within lease area - 100 nos Outsdie lease area - 150 nos	A farm house developed by leessee in the out side lease area & planted the tree in this farm house.
8g	Survival rate	80%	80%	

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8h	Water sprinkling proposed on roads to control airborne dust	with the use of water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		needs improvements within the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. submitted upto-Nov-2022 A.R. submitted upto-2021-22	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Mining Engineer - Shri Uday pandey Geologist - Shri Ram Raj Kushwaha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under current pit - 4.560 ha Waste Dump - 1.016 ha Plant, Building - 0.300 ha Green Belt - 0.500 ha	
9d	Scrutiny of Annual return on afforestation		Within lease area - 100 nos Outsdie lease area - 150 nos	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		NIL	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Opening stock - 21850.415 Tonnes Production - 93445 Tonnes Dispatch - 85527.258 Tonnes Closing Stock - 29768.157 Tones	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price - Rs 303/- Production cost Rs 289.59/-
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is Rs 3010945/-
9k	Scrutiny of Annual return on mining machineries	HEMM is being used in mineral benches for excavation and transportataion L&T-PC 210 Hydra excavator -01 Dumper 16 T -2 Dumper 10 T - 2 Pump 650L/MN -01 Water tanker 2000 ltr - 001

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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)	18-JAN-23			
MCDR17	Rule 27(1)	18-JAN-23			
MCDR17	Rule 34(1)	18-JAN-23			

Date :**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines