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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-1

Mine code : 38MPR47043

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Varun Grover (Lessee's Representative), Ravi Kumar Sar
Official with
Designation
- (iv) Date of Inspection : 30-JUN-23
- (v) Prev.inspection date : 04-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMEHTA (13.900 H)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : AMEHTA
Taluka : VIJAY RAGHAV GARH
Post office : KAHANGAON
Pin Code : 483501
FAX No. : N. A.
E-mail : varun.grover510@gmail.com
Phone : 09893311442
- (f) Police Station : VIJARAHHOGARH
- (g) First opening date : 10-OCT-76
- (h) Weekly day of rest :
2. Address for : SHRI RAVI KUMAR GROVER
correspondance CIVIL LINES, KATNI (M.P.) 4835
01
3. (a) Lease Number : MPR1690
(b) Lease area : 13.90
(c) Period of lease : 50
(d) Date of Expiry : 10-OCT-26
4. Mineral worked : LIMESTONE Main
LATERITE Associated
BAUXITE Associated
FIRECLAY Associated

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5. Name and Address of the

Lessee : RAVI KUMAR GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: 09893311442.
FAX :N. A.

Owner : RAVI KUMAR GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: 09893311442.
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27-APR-06
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	07-SEP-10
		Mining Scheme rule 12 MCDR1988	26-JUL-13
		MP modif under 17(3) MCR 2016	10-JAN-17
		MP review under 17(1) MCR 2016	29-JUL-21

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Area already explored in G-1.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserve as on 01/04/20		111-986337 122-1034575	
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 the Katni district. The limestone of the area is hard and compact and shale patches are found with the limestone.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed in the central part of the ml in the block A.	Working was done in the central part of the ml in the block a as the whole block A is opened for mining.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	PROPOSED	SEPARATE BENCHES ARE MAINTAINED IN THE SOIL 1.5-2 M, MINERAL BENCHES 6 METER WORKING FACE VARIES FOR THE MOVEMENT OF MACHINERIES	

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2c	Stripping ratio or ore to OB ratio	1:0.12	1:0.02	Only 3733 m3 OB is reported in the Annual Returns against the approved proposal of 17327 m3 for the year 2022-23. Violation pointed out under Rule 11(1) of MCDR 2017.
2d	Quantity of topsoil generation in m3	13950	11800	
2e	Quantity of overburden generation in m3	17327	3733	Violation pointed out under Rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Only 3733 m3 OB is reported in the Annual Returns against the approved proposal of 17327 m3 for the year 2022-23. Violation pointed out under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	138625	133325	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NOT PROPOSED	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

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3f	Quantity of sub grade mineral generation.	NOT PROPOSED	Nil
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study proposed .	No analysis or beneficiation study carried out for sub-grade mineral and reject.
3j	Provision of drilling and blasting in mineral benches	PROPOSED	SMALL DIA DRILLING PROPOSED ON CONTRACTUAL BASIS
3k	Provision of mining machineries in mineral benches	PROPOSED	HEMM IS BEING USED FOR EXCAVATION AND TRANSPORTATION
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	SUITABLE AS PER APPROVED MINING PLAN
3m	Total area covered under excavation/pits	Not specified	6.270 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	1:0.02
3o	Total area put in use under different heads at the end of year	Not specified	10.85 ha
3p	Production of ROM mineral during the last five year period as applicable	2018-19 132960 2019-20 147360 2020-21 118440 2021-22 139975 2022-23 138625	2018-19 82045 2019-20 91404 2020-21 118240 2021-22 85610 2022-23 133325

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3q General remarks of inspecting officers on method of mining etc.

Opencast mechanised method of mining were being adopted in the lease area. All operation of mining such as development, winning of ore, loading and transport were being carried out by utilising HEMM. The drilling and blasting is done of hole dia up to 48 mm and depth less than 3m. The grade of limestone is BF.

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 WAS DONE FOR THE SOIL AND WASTE WITHIN THE ML AREA IN DIFFERENT BLOCK	
4b	Location of topsoil, OB and mineral reject dumps	IT WAS PROPOSED IN THE WESTERN SIDE OF THE BLOCK A AND IN THE BLOCK B	WASTE DUMPS ARE LOCATED IN THE WESTERN SIDE OF THE ML AREA AND SOIL DUMP IS IN THE BLOCK B	
4c	Number of dumps within lease area and outside of lease area	01	02	
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.	02	02	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	

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4h	Whether Retaining wall or garland drain all along dumps are there.	It is proposed to construct garland drain of 300m for the year 2022-23.	Not done	Violation pointed out under Rule 11(1) of MCDR.
4i	Length of Retaining wall or garland drain all along dumps	It is proposed to construct garland drain of 300m for the year 2022-23.	Not done	Violation pointed out under Rule 11(1) of MCDR.
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			It is proposed to construct garland drain of 300m for the year 2022-23 but the same was not constructed. Violation pointed out under Rule 11(1) of MCDR.

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 from mined out area before starting backfilling proposed.	Full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	0.8 HA	0.8 HA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	PLANTATION	SOIL IS PROPOSED TO BE USED PLANTATION OVER THE BARRIER ZONE	
5d	Total area fully reclaimed and rehabilitated	0.8 ha	0.8 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling & reclamation is being carried out as per approved proposals.

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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	Not submitted.	Violation pointed out under Rule 26(2) of MCDR
6b	Area available for rehabilitation (ha) .	0.25 ha	0.25 ha	
6c	afforestation done (ha).	0.25 ha	0.25 ha	
6d	No. of saplings planted during the year	Not specified	Number of trees planted during the year 100nos	
6e	Cumulative no .of plants	Not proposed	NA	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.8 HA	0.8 HA	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.8 HA	0.8 HA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.25 HA	0.25 HA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	

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6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out periodically.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP report for the year 2022-23 is not attached in the online Annual returns. Violation pointed out under Rule 26(2) of MCDR

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch after grade wise sorting within lease area proposed	ROM mineral dispatch after grade wise sorting within lease area done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	

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7c	Different grade of mineral sorted out at mines.	BF	BF	
7d	Any beneficiation process at mines .	No beneficiation process at mines proposed	No beneficiation process at mines done.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines carried out only ROM mineral dispatch after grade wise sorting within lease area done.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Separate removal and utilization of topsoil done.	
8b	Concurrent use or storage of topsoil	For plantation	For plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock proposed	Separate dumps for overburden waste rock maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden, waste rock for backfilling proposed.	Use of overburden, waste rock for backfilling done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands by backfilling & plantation proposed	Phased restoration, reclamation and rehabilitation of lands by backfilling & plantation carried out.	

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	NA	
8g	Survival rate	Not specified	15%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is fair.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Returns submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer in charge: Ravi Kumar Saraf Geologist in charge : Praveen Rawat	

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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): Under forest Outside forest Total (i) Already exploited and abandoned by opencast (O-C) mining 0.000 2.250 2.250 (ii) Covered under current (O-C) Workings 0.000 6.270 6.270 (iii) Reclaimed-rehabilitated 0.800 0.800 (iv) Used for waste disposal 0.000 2.996 2.996 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.300 0.300 (vi) Used for any other purpose (specify) Green belt 0.000 0.760 0.7
9d	Scrutiny of Annual return on afforestation	Given	100 saplings
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	Given	Closing stock at mine-head (BF) - 101952.029 T.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price- Rs.303.70. Cost of production per tonne of ore-mineral produced-Rs.263.50.
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets Rs. 50665000.

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9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast/underground (sp ecify) DUMPER 16.000 TONNE 4 Non Electrical Opencast DUMPER 10.000 TONNE 2 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast FRONT END LOADER 1.200 CUM 1 Non Electrical Opencast PUMPS (NON-ELEC.) 650.000 L/MN 2 Non Electrical Opencast OTHERS (NON-ELEC.) 650.000 4 Electrical Opencast
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Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Showcause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 11(1)	04-AUG-23		Rule 11(1)	22-NOV-23	22-DEC-23
Rule 26(2)	04-AUG-23		Rule 26(2)	22-NOV-23	22-DEC-23
Rule 31(4)	04-AUG-23	21-NOV-23			
Rule 34(A)	04-AUG-23	21-NOV-23			
Rule 33	04-AUG-23	21-NOV-23			
Rule 45(7)	04-AUG-23		Rule 45(7)	22-NOV-23	22-DEC-23

Date :

(ROBERT SIMON C)

Indian Bureau of Mines