

I/12823/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KATNI/LST-213

Mine code : 38MPR47067

- (i) Name of the Inspecting : G006) ABHISHEK RANJAN GAUTAM
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri G D Dixit, Lessee Representative
Official with
Designation
- (iv) Date of Inspection : 09-MAY-23
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : RAJARWARA (2.902 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 :
- (g) First opening date : 30-SEP-95
- (h) Weekly day of rest : SUN
2. Address for : SHRI UMESH NATH CHAURASIA
correspondance M.M.CHAUBEY WARD, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0689
(b) Lease area : 2.65
(c) Period of lease : 50
(d) Date of Expiry : 06-DEC-43
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : UMESH NATH CHAURASIA
M.M.CHOUBEY WARD KATNI
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : UMESH NATH CHAURASIA
NAI BASTI, KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 11-JAN-13
Plan/Scheme of Mining Renewal under rule 24 MCR1960 21-OCT-14

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	04 Bore hole	01 Bore holes	Violation pointed out under rule 11(1) of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	The lease area already explored upto G1	The lease area already explored upto G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	The lease area already explored upto G1	The lease area already explored upto G1	
1e	Balance reserve as on 01/04/20	Balance reserve on 31/03/2023	111 - 83975 tons 122 - 488004 tons	
1f	General remarks of inspecting officers on geology, exploration etc			The ML area lies along the foot hill of the Kymore hill range. 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.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed Eastern side of the lease area	As per proposal	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in overburden, Top soil & mineral proposed	As per proposal
2c	Stripping ratio or ore to OB ratio	1:2.45	1:0.20
2d	Quantity of topsoil generation in m3	8670 cubic meter	8000 cubic meter
2e	Quantity of overburden generation in m3	9947 cubic meter	9500 cubic meter
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development work done as per proposal

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	58825 tons	49005.300 tons	
3c	Recovery of sailable/usable mineral from ROM production	85%	85%	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
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	
3g	Grade of sub grade mineral generation	Not proposed	Not applicable	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
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	Drilling & Blasting proposed	Drilling & Blasting adopted
3k	Provision of mining machineries in mineral benches	Front End Loader - 1.2 cubic - 01 Dumper - 16 tonne - 03 Water tanker - 5000 liter - 01	Front End Loader - 1.2 cubic - 01 Dumper - 16 tonne - 03 Water tanker - 5000 liter - 01
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Suitable
3m	Total area covered under excavation/pits	0.981 ha	0.981 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:2.45	1:0.20
3o	Total area put in use under different heads at the end of year		Covered under current (O-C) Workings - 0.981 ha Reclaimed-rehabilitated - 0.225 ha Used for waste disposal - 0.300 ha Occupied by plant, buildings, residential, welfare buildings and roads - 0.065 ha Used for any other purpose (specify) Mineral collection - 0.050 ha Work done under progressive mine - 0.043 ha

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3p	Production of ROM mineral during the last five year period as applicable	2018-19 Nil 2019-20 Nil 2020-21 Nil 2021-22 - 11662 tonne 2022-23 - 58825 tonne	2018-19 Nil 2019-20 Nil 2020-21 Nil 2021-22 - 2022-23 - tonne	-49005.300
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3q	General remarks of inspecting officers on method of mining etc.	Opencast mechanised method of mining is existing in the lease area.
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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	adopted	
4b	Location of topsoil, OB and mineral reject dumps	Southern part of the lease area	Southern part of the lease area	
4c	Number of dumps within lease area and outside of lease area	02 Dumps	02 Dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps were proposed with in ultimate pit limit.	Temporary Dumps found within ultimate pit limit.	
4e	Number of active and alive dumps.	02 dumps	02 dumps	
4f	Number of dead dumps.	Not proposed	Not applicable	
4g	Number of dumps established.	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	

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4k	Specific comments of inspecting officer on waste dump management	The dumps were proposed to be used for reclamation & rehabilitation of mined out pit after mining
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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	Extaction of mineral not completed in the lease area.	
5b	Area under backfilling of mined out area	Proposed 7.5 mtr barrier zone near pillar no 11 to12 during the year 2022-23	Not done	Backfilling proposed in the approved document is not started. Violation pointed out for the same.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil stacked for retoration of mined out area.	Top soil stacked for retoration of mined out area	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling proposed in the approved document is not started. Violation pointed out for the same

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 under rule 26(2)	Annual report on PMCP submitted on time under rule 26(2)	

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6b	Area available for rehabilitation (ha) .	Mined out area	0.10 ha
6c	afforestation done (ha).	0.10 ha	0.10 ha
6d	No. of saplings planted during the year	Within lease area - 100 nos	Within lease area - 100 nos
6e	Cumulative no .of plants	Not provided	Not provided
6f	Any other method of rehabilitation	Not proposed	Not applicable
6g	Cost incurred on watch and care during the year	Not provided	Not applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not applicable	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Found in order	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Yearly report of PMCP submitted under rule 26(2).

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch to steel and cement industries.	ROM mineral dispatch to steel and cement industries	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Cement grade	Cement grade	
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	The limestone dispatched to cement and steel industries directly
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes, Used for plantation	
8b	Concurrent use or storage of topsoil	Top soil stacked in mine for spreading on the mined out area	Top soil stacked in mine for spreading on the mined out area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Dumps for OB found during inspection	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed 7.5 mtr barrier zone near pillar no 111 to 12 during the year 2022-23	Not done	Backfilling proposed in the approved document is not started. Violation pointed out for the same.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed	Plantation done in the green belt and other waste land area	
8g	Survival rate	80%	80%	

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8h	Water sprinkling on roads to control airborne dust	Regular spraying of water on road	Done as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation was done in the green belt. the mine needs systematic development of the benches

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR Submitted within time frame	MR submitted upto may 2023 AR submitted upto 2022-23	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri Ritesh Dixit Geologist - Shri Vivek Pandey	Mining Engineer - Shri Ritesh Dixit Geologist - Shri Vivek Pandey	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings - 0.981 ha Reclaimed-rehabilitated - 0.225 ha Used for waste disposal - 0.300 ha Occupied by plant, buildings, residential, welfare buildings and roads - 0.065 ha Used for any other purpose (specify) Mineral collection - 0.050 ha Work done under progressive mine - 0.043 ha	Covered under current (O-C) Workings - 0.981 ha Reclaimed-rehabilitated - 0.225 ha Used for waste disposal - 0.300 ha Occupied by plant, buildings, residential, welfare buildings and roads - 0.065 ha Used for any other purpose (specify) Mineral collection - 0.050 ha Work done under progressive mine - 0.043 ha	

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9d	Scrutiny of Annual return on afforestation	100 nos of tree planted	100 nos of tree planted
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock - 26788.825 tons	Closing Stock - 26788.825 tons
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine prize - Rs 247.50/- Cost of production - Rs 213.51/-	Ex Mine prize - Rs 247.50/- Cost of production - Rs 213.51/-
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets* Rs- 1666097/-	Value of Fixed Assets* Rs- 1666097/-
9k	Scrutiny of Annual return on mining machineries	Front End Loader - 1.2 cubic - 01 Dumper - 16 tonne - 03 Water tanker - 5000 liter - 01	Front End Loader - 1.2 cubic - 01 Dumper - 16 tonne - 03 Water tanker - 5000 liter - 01

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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)	30-JUN-23			
MCDR17	Rule 31(1)	30-JUN-23			

Date :**(ABHISHEK RANJAN GAUTAM)**

Indian Bureau of Mines