

INSPECTION DATASHEET For The Year 2022-23**General**

S.N.	Particulars	Details
1	Name of the Mine	Amehta Limestone/Dolomite Mine
	Date of Inspection:	13.09.2023
	Name of Inspecting Officer	Sh. Abhishek Ranjan Gautam
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	9.86 Hect. Non Forest
3	Mine code	38MPR18009
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/614/2011
5	Last Inspection Details	Inspecting officer – Shri Robert Simon C, ACOM Date of Inspection – 15/12/2022 Rule 11(1), 33, 45(7) Compliance date 21/06/2023
6	Mine official present during the inspection	Ajay Pandey Agent
7	Name of the Lease, Address, Phone, email and fax number	Amehta Limestone/Dolomite Mine
8	Village	Amehta
9	Taluka/Mandal	Vijayraghavgarh
10	District	Katni
11	Pin code	
12	State	Madhya Pradesh
13	Post Office	Kahangaon
14	Nearest Police Station	Kymore
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	31.08.1978
17	Date of Execution	31.08.1978
18	Date of opening of Mine	31.08.1978
19	Date of First Renewal, if applicable and its period & expiry	13.04.2007. From 31.08.1998 to 30.08.2018
20	Date of Second Renewal, if applicable and its period & expiry	19.02.2020. From 31.08.2018 to 30.08.2028
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sh. Riju Jauhar S.N. Sunderson & Co. 1, Deshbandhu Gupta Road, New Delhi-110055 (9811063640)
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Ajay Pandey S.N.Sunderson & CO., Opp. S-1/56,Sector-1,D Katni (M.P.) (9589406417)
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Ramanand Tiwari, Santoshi Vihar Colony, satna (M.P.) (8770438694). 18.04.2022
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Ramanand Tiwari, Santoshi Vihar Colony, Satna (M.P.) Diploma in minng & 1 st Class manager competency certificate. 18.04.2022

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26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	14.01.2022
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
29	Mineral(s) granted in lease and approved for Mining	Limestone & Dolomite
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanized, Others or Manual)	A
32	Captive/Non-Captive	Non Captive.

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Lease area explored up to G1 level	Lease area explored up to G1 level	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Engiotech Consultant 876858	Engiotech Consultant 876858	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Lease area explored up to G1 level	Lease area explored up to G1 level	
1e	Balance reserves as on 01.04.2023	897679	897679	
1f	General remarks of Inspecting officer 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.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	It is proposed to develop the quarry towards west. The orientation of the working will be along NE-SW. The OB removal will be carried out in one bench of average height 4m sloping at 45°. The width of the bench will vary from 10 to 15m.	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil overburden and mineral proposed	Separate benches in topsoil overburden and mineral adopted.	

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2c	Stripping ratio or ore to OB ratio	1:2.52	1:2.52	
2d	Quantity of topsoil generation in m ³	25800	25800	
2e	Quantity of overburden generation in m ³	43344	49600	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Bench height and width is found maintained as per proposal. Development done as per proposal.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed (2022-23)	175420	110390	Less production, Violation pointed out
3c	Recovery of Salable/usable mineral from ROM production	54 %	54 %	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized method Proposed	Mechanized method adopted	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
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	5.9	5.9	
3n	Ore to OB ratio for the pit/mine during the year	1:2.52	1:2.52	
3o	Total area put in use under different heads at the end of year	8.63	8.3	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	179417	0
		2019-20	148820	0
		2020-21	176115	0
		2021-22	135254	59678
		2022-23	175420	110390

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3q	General remarks of inspecting officer on method of mining etc	Open cast mechanised mine working proposed by using Excavator/JCB & dumper combination with shallow drilling & blasting using jack hammer.
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Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB done	
4b	Location of topsoil, OB & mineral reject dumps	N-2655935-E-452810,N-2656025-E-452883,N-2656022-E-453084,N-2656056-E-453138,N-2655950-E-452919,N-2656015 E-453004	N-2655935-E-452810,N-2656025-E-452883,N-2656022-E-453084,N-2656056-E-453138,N-2655950-E-452919,N-2656015 E-453004	
4c	Number of Dumps within lease area and outside lease area	2	2	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	0	0	
4f	Number of deed dumps	2	2	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	1	1	
4k	Specific commends of inspecting officer on waste dump management	Separate dumping of topsoil & OB were being maintained within the lease area.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on 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	1.60 ha	0.45 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Stacking	Stacking	
5d	Total area fully reclaimed & rehabilitated	1.60 ha	0.7	

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5e	General remarks of inspecting officer on backfilling, reclamation etc	Proposed backfilling in 7.5 meter barrier zone has not been done, hence violation pointed out
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Progressive Mine Closer Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E(2). Details should be given in the format as given in Annexure-20	To be submitted before 1st July of every year	Yes, submitted within time limit as per the provisions of Rule 26 of MCDR,2017	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	Not applicable	
	ii) Afforestation done (ha)	Not proposed	Not applicable	
	iii) No.of saplings planted during the year	200	10	Violation pointed out
	iv) Cumulative no. of plants	490	490	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable	
	vi) Cost incurred on watch & care during the year	Not proposed	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed	Not applicable	Backfilling proposed in 7.5 mtr barrier zone
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not proposed	Not applicable	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Periodical Air, Water, Noise	Carried out as per the proposals	Analysis reports

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		monitoring Proposed		were provided
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Presently scope of backfilling/reclamation & rehabilitation doesn't exist and no proposals are given. Periodic monitoring is being carried out by outsourced consultant.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	NA	
7c	Different grade of mineral sort out at mine	Not proposed	NA	
7d	Any beneficiation process at mines	Not proposed	Beneficiation process not adopted at mines.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Beneficiation process not adopted at mines. ROM mineral dispatch being done.		

Environment

S.N.	Item			
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and stacking of topsoil proposed	Separate removal and stacking of topsoil done	
8b	Concurrent use or storage of topsoil	stacking proposed	stacking done	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	As per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	As per proposal.	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation proposed	As per proposal.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	proposed	Mahua, Mango, Dalbergia sissoo, Bargad, Pipal, Neem, Kachnar, Karanj, Gulmohar Khamer and Munga available in the lease area.	Plantation not done, violation pointed out
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker of 5KL capacity is provided for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 200 sapling/year in further approval of documents		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR of September-23 and AR of 2022-23 has been submitted	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Ramanand Tiwari Geologist: Ajay Pandey	Appointed as per rule
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use as per Annual return 2022-23 Currant working: 5.9 ha. Roads and Infra. : 0.150 ha. OB/waste dump: 1.880 ha. Green Belt: 1.460 ha. Reclaimed – 0.7	As submitted by lessee
9d	Scrutiny of Annual return on Afforestation	Plantation not done as proposed	Violation pointed out

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9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	As per AR 2022-23, approved mining plan ROM was proposed 175420 T & actual production carried out 110390 t	As submitted by lessee
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine Price : Rs 388.95, Cost of production = Rs. 207.56	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* ₹ 1548002/-	
9k	Scrutiny of Annual return on mining Machineries	BACK HOE 1.200 CUM 1 Non Electrical Opencast DUMPER 20.000 TONNE 4 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Non Electrical Opencast	

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:- Details is given below:

Rule – 11(1) of MCDR 2017 dated 27/09/2023

Date:

Name: Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer