

INSPECTION DATASHEET**General**

S.N.	Particulars	Details
1	Name of the Mine Date of Inspection: Name of Inspecting Officer	Amehta Limestone Mine 10.01 Hect 28-06-2023 Shri Abhishek Ranjan Gautam (Assistant Mining Engineer)
2	Total Lease Area (Ha) with breakup of non-forest and forest land	Forest Land – 0.00 Hect Non Forest Land - 10.01 Hect
3	Mine code	38MPR47050
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/749/2011
5	Last Inspection Details	Inspecting officer – Shri Ibrahim Sharief Date of Inspection – 19/05/2022 Violation Point out – 11(1) of MCDR 2017 26(2) of MCDR 2017 31(4) of MCDR 2017 45(7) of MCDR 2017 55(1) of MCDR 2017 VL Compliance date – 21/09/2022
6	Mine official present during the inspection	Shri Manoj Kumar Roy, Mining Engineer
7	Name of the Lease, Address, Phone, email and fax number	Smt. Sumitra Grover Address- B.D. Agrawal Ward No 25, Civil Line Katni (M.P.) -483501 Email- ranjan_grover4@yahoo.com Mob No- 97524-88888,
8	Village	Amehta
9	Taluka/Mandal	Vijayraghavgarh
10	District	Katni
11	Pin code	483775
12	State	M.P.
13	Post Office	Kahangaon
14	Nearest Police Station	Vijayraghavgarh
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	06-10-1986
17	Date of Execution	03-01-1987
18	Date of opening of Mine	03-01-1987
19	Date of First Renewal, if applicable and its period & expiry	03-01-2007 to 02-01-2027 (20 Years)
20	Date of Second Renewal, if applicable and its period & expiry	03-01-2027 to 02-01-2037 (10 year)
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Smt. Sumitra Grover Address- B.D. Agrawal Ward No 25, Civil Line Katni (M.P.) -483501 Email- ranjan_grover4@yahoo.com Mob No- 97524-88888,
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	-
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Manoj Kumar Roy
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Manoj Kumar Roy Address- Katni (M.P.) -483501 Email- roymanoj8@gmail.com Mob No- 6200082537
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Arvind Kumar Tamrakar
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in	MP/Katni/Limestone/RMP-23-/2022-23-2327 DTED 05-08-2022

	approval letter, if any.	
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	MP/Katni/Limestone/RMP-23-/2022-23-2327 DTED 05-08-2022
29	Mineral(s) granted in lease and approved for Mining	Limestone
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanized, Others or Manual)	Mechanized
32	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	5 Boreholes	Nil	Violation Pointed Out
1b	Exploration over lease area for Geological axis 1 or 2.	Lease area explored up to G2 level	Lease area explored up to G2 level	Violation Pointed Out
1c	Exploration Agency & 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.	Entire mineralised area to be explored in G1 level,	Entire mineralised area has been explored in G2 and G3 level G2 : 8.63 ha G3 : 1.38 Ha,	
1e	Balance reserves as on 01.04.2023	2360558 tons	2360558 tons	
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. limestone is soft and stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. The general strike of limestone is ENE- WSW and the amount of dip is about 5° to 45° with average dip of 250 towards North westerly.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	North-East	North-East	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes separate bench for top soil, overburden and mineral has to be maintained separately for systematic mining.	Yes separate bench for top soil, overburden and mineral had been maintained for systematic mining.	
2c	Stripping ratio or ore to OB ratio	1:0.12	1:0.12	
2d	Quantity of topsoil generation in m ³	12218 tons	13100 tons	
2e	Quantity of overburden generation in m ³	NIL	NIL	
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	One pit is proposed	Production is	

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	production	for production	being carried out from One Pit	
3b	Quantity of ROM mineral production proposed (2022-23)	99998 MT	89350 MT	
3c	Recovery of Salable/usable mineral from ROM production	99998 MT	89350 MT	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NIL	NIL	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NIL	NIL	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	L & T PC 200 (1.2 CUM) 210 HP	L & T PC 200 (1.2 CUM) 210 HP	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6	6	
3m	Total area covered under excavation /pits	4.675	4.675	
3n	Ore to OB ratio for the pit/mine during the year	-	-	
3o	Total area put in use under different heads at the end of year	9.015	9.015	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	99900	99800
		2019-20	99960	99170
		2020-21	99960	99750.89
		2021-22	100200	99900
		2022-23	99998	89350
3q	General remarks of inspecting officer on method of mining etc	Fully mechanised method of mining deploying HEMM is being carried out by maintaining bench height of 6 meters and width more than height.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Only waste/ OB dump is maintained as there is no proposal of mineral reject generation. TOp soil generation is very small and being utilised for plantation	OB dump is maintained.	
4b	Location of topsoil, OB & mineral reject dumps	7 no. of OB dumps within lease area	Dumping is carried out in earmarked place.	Dump-1 N2655660-2655730, E-453349- E-453416, Dump-2 -N 2655575 - N 2655660

				E 453382 - E 453430, Dump- 3- N 2655482 - N 2655553, E 453454 - E 453483, Dump- 4 : N 2655292 - N 2655406, E 453267 - E 453507, Dump- 5 N 2655451 - N 2655495 E 453197 - E 453288, Dump- 6-N 2655506 - N 2655554 E 453238 - E 453296, Dump- 7- N 2655544 - N 2655578 E 453315 - E 453345
4c	Number of Dumps within lease area and outside lease area	7no. of dumps within lease area	7 no. of dumps within lease area.	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Dumps are found within UPL	Dumps are found within UPL	as these are temporary dumps
4e	Number of Active & Alive dumps	5 Dumps are Active	5 Dumps are Active	
4f	Number of deed dumps	2 dumps are non active	2 dumps are non active	
4g	Number of dumps established	No such proposal to establish the dumps	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	No such proposal of constructing retain wall	Nil	Retaining wall is found along bottom periphery of waste dump
4i	Length of Retaining wall or garland drain all along dump	200 METER	200 METER	
4j	Number of settling ponds	No proposal of creating settling pond during the year	Not done	
4k	Specific comments of inspecting officer on waste dump management	Waste dump is being carried out within UPL and are temporary in nature.		

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	Entire mineral to be excavate before backfilling.	No area is backfilled during the year 2022-23	Violation pointed out under rule 11(1)
5b	Area under backfilling of mined out area	Barrier zone near pillar no 9 to 11	Not done	Violation pointed out under rule 11(1)
5c	Concurrent use of topsoil for restoration or	Used for	Nil	

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	rehabilitation of mined out area (Rule 32)	plantation in backfilled area		
5d	Total area fully reclaimed & rehabilitated	No proposal of reclamation and rehabilitation	Nil during the year	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area is matured for reclamation and rehabilitation		

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	Annual report on PMCP to be submitted on time as per statute	YES	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Nil	Nil	
	ii) Afforestation done (ha)	No proposal of plantation in worked out benches	Not applicable	
	iii) No.of saplings planted during the year	No such proposal	Nil	
	iv) Cumulative no. of plants		300	
	v) Any other specific method of rehabilitation			
	vi) Cost incurred on watch & care during the year	No proposal	Nil	
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	No voids available for backfilling	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not proposed	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring of Air, water, Noise to be carried out	Quarterly monitoring of Air, water, Noise is being carried out regularly.	

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6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	No area is mature for reclamation and rehabilitation hence no backfilling is carried out.
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Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM ore produced shall be dispatched	89377 Tonnes of Limestone dispatch during the year	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised method to be adopted for sorting of ore	Mechanised method for sorting of ore is adopted.	
7c	Different grade of mineral sort out at mine	Cement grade	Cement grade	
7d	Any beneficiation process at mines	No such proposal of beneficiation study is made during the year	No study carried out during the year	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Low grade ore is being blended with High grade ore for optimum utilisation of ore.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	There is proposal of separate removal of Top Soil so as to utilise for plantation	Top Soil is being excavated separately and store for it's use for plantation.	
8b	Concurrent use or storage of topsoil	To be used for plantation	Top soil is being used for plantation	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	As Per Proposal	As Per Proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal to use overburden to restore the land	NOT APPLICABLE	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	No area is matured for backfilling, hence no area is backfilled.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	As Per Proposal	200 no. of saplings planted during the year	
8g	Survival rate	80%	80%	

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8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress the dust with water sprinkling on Haul road, working area	Water sprinkling on Haul road, working area is being carried out to suppress the dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation is being carried out to improve aesthetic beauty		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR of May-23 and AR of 2022-23 has been submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Manoj Kumar Roy Geologist: Arvind Tamrakar	
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: 4.765 ha. Roads and Infra. : 0.110 ha. OB/waste dump: 4.030 ha. Others: 0.200 ha.	As submitted by lessee
9d	Scrutiny of Annual return on Afforestation	Afforestation as per MP and AR 200 saplings planted in the lease area.	As submitted by lessee
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No any mineral reject generated during the year.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	As per AR 2022-23, approved mining plan ROM was proposed 499950 T & actual production carried out 499903 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine Price : Rs.388.27, Cost of production = Rs. 256.62	As submitted by lessee.
9i	Scrutiny of Annual return on Fixed assets	Fixed assets as per AR: Value of Fixed Assets – Rs - 3031328	
9k	Scrutiny of Annual return on mining Machineries	Back Hoe- 0.9 cum-1 No., Tipper (10 cum)-6 No., 6 cum- 2 No., Blast hole drill- 1 No.	Above machines are deployed in the lease area

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

- 1. Rule – 11(1) of MCDR 2017.**
- 2. Rule 31(4) of MCDR 2017**

Date:

Name: Shri Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer