

INSPECTION DATASHEET year 2022-23**General**

S.N.	Particulars	Details
1	Name of the Mine	Tihai Limestone & Laterite Mines
	Date of Inspection:	27/06/2023
	Name of Inspecting Officer	Abhishek Ranjan Gautam Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area 8.09hectares. Non Forest Land
3	Mine code	38MPR35260
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/10431/2012
5	Last Inspection Details	Inspecting officer – Shri Sanjay M Girhe, RMG Date of Inspection – 25/07/2022 Violation Point out – 11(1) of MCDR 2017 13 of MCDR 2017 31(4) of MCDR 2017 34A(3) of MCDR 2017 VL Compliance date – 21/11/2022
6	Mine official present during the inspection	Shri Rahul Tripathi, Lessee Representative
7	Name of the Lease, Address, Phone, email and fax number	SMT. URMILA TRIPATHI Address- Chandmari Road, Dhawari P.O. & District - Satna, Madhya Pradesh, PIN-485001, Phone- 9399898748, Email-rahulelex@yahoo.com
8	Village	Tihai
9	Taluka/Mandal	Rampur Baghelan
10	District	Satna
11	Pin code	485001
12	State	Madhya Pradesh
13	Post Office	Kotar
14	Nearest Police Station	Kotar
15	Nearest Railway Station	Satna
16	Date of Grant of Mining Lease	22-11-1975
17	Date of Execution	22-11-1975.
18	Date of opening of Mine	22-11-1975
19	Date of First Renewal, if applicable and its period & expiry	22-11-1995 to 21-11-2015
20	Date of Second Renewal, if applicable and its period & expiry	21-11-2025 (50 years extension from first sanction)

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21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA (Initial Grant Intital lease was granted Mr. Obedullah Khan, Satna (M.P.)
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not Applicable
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Name of Engineer-SHIVSHANKAR PANDAY Mob-9981431115 Appointement Date.....22/02/2017
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Name of Engineer-Ashutosh tripathi Phone-8827477001 Appointement Date -03/01/2021
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Geologist – Devnath Pathak
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	30/08/2022 (Review of Mining Plan)
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Not Applicable
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)	'A'Fully Mechanized
32	Captive/Non-Captive	'Non-Captive Use'

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	7 borehole	03 borehole	Violation of Rule 11(1) of MCDR,2017 was pointed out & issued for not carrying out the exploration as proposed
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	Engeotech Consultant, Jabalpur	Engeotech Consultant, Jabalpur	
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 level	
1e	Balance reserves as on 01.04.2023	122- 372334 Tons	122- 372334 Tons	
1f	General remarks of Inspecting officer on geology, exploration etc.	ML area belongs to Vindhyan Super Group of rocks, Limestone of the ML area found with laterite patches. Dark grey to Light grey in colour fine to medium grained limestone.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	24° 43'25.45" to 24° 43' 31.80" & 81° 00' 04.98" to 81° 00' 09.44"	24° 43'25.45" to 24° 43' 31.80" & 81° 00' 04.98" to 81° 00' 09.44"	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Proposed	Separate benches in the soil and in teh mineral benches are formed and maintained top soil bench height is about 1-1.5 meter and in mineral benches 5-6 meter height as per the proposal	
2c	Stripping ratio or ore to OB ratio	1:0.17	1:0.10	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	27257 Cubic meter	21069 Cubic meter	
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	Working was proposed in single pit	Working carried out in single pit as per the proposals	
3b	Quantity of ROM mineral production proposed (2022-23)	Total 161750 Tonnes of limestone production was proposed	Total 123935 MT production achieved during the year 2021-22	
3c	Recovery of Salable/usable mineral from ROM production	Proposed as 80%	Acheived about 80%	20% of limestone zone is unrecovered because of recovery loss
3d	Quantity of mineral	No Proposals	Nil	

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	reject generation			
3e	Grade of mineral reject generation and threshold value declared	No Proposals	Nil	
3f	Quantity of sub-grade mineral generation	No Proposals	Nil	
3g	Grade of sub-grade mineral generation	No Proposals	Not Applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	No Proposals	Not Applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposals	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Small dia 32mm shallow depth drilling & blasting is proposed by Jack hammer	Drilling & Blasting using jack hammer carried out Small dia 32mm shallow depth	
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches for excavation and trasportaion of ROM /minerals	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Proposed height and width of benches are suitable for mining as per approved mining plan	
3m	Total area covered under excavation /pits	3.616	3.616	
3n	Ore to OB ratio for the pit/mine during the year	1:0.17	1:0.10	
3o	Total area put in use under different heads at the end of year	Currant working: 3.616 ha. Roads and Infra. : 0.203 ha. OB/waste dump: 0.579 ha. Green Belt: 0.013 ha.	Currant working: 3.616 ha. Roads and Infra. : 0.203 ha. OB/waste dump: 0.579 ha. Green Belt: 0.013 ha.	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19		
		2019-20	84000	47600
		2020-21	88160	59413

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		2021-22	124200	115404
		2022-23	161750	123935
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.		

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 soil, waste and mineral proposed	separate dumping of soil and mineral stack located in the lease area	
4b	Location of topsoil, OB & mineral reject dumps	OB/waste dumps are proposed in the western side of the lease area	OB/waste were dumped in the western side of the ML area	
4c	Number of Dumps within lease area and outside lease area	One OB dumps were proposed within the lease area	One	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	Dump are located outside the UPL	
4e	Number of Active & Alive dumps	1	1	
4f	Number of dead dumps	No Proposals	Nil	
4g	Number of dumps established	No Proposals	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No Proposals	Nil	
4i	Length of Retaining wall or garland drain all along dump	No Proposals	Nil	
4j	Number of settling ponds	No Proposals	Not Applicable	
4k	Specific commends 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	Presently no area is matured/mineral exhausted. Full extraction of the mineral proposed upto UPD	Full extraction of mineral was not finished yet upto UPD	
5b	Area under backfilling of mined out area	No Proposals	Very small area of 0.050Ha backfilled in 7.5m barrier zone	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	Nil	No top soil generation proposed
5d	Total area fully reclaimed & rehabilitated	No Proposals	Meager area of 0.050Ha reclaimed by backfilling in 7.5m barrier zone	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling not started yet, full extraction of the mineralization not finished yet, no area is mature enough for the activity		

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(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	Nil	Nil	
	i) Area available for rehabilitation (Ha)	0.018	0.018	
	ii) Afforestation done (ha)	Nil	Nil	
	iii) No.of saplings planted during the year	Nil	Nil	
	iv) Cumulative no. of plants	Nil	Nil	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care	NA	NA	

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	during the year			
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	Nil Reclamation and rehabilitation by backfilling upto 2024-25	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Analysis reports 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 ore produced shall be dispatched	170301 Tonnes of Limestone dispatch during the year	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Nil	
7c	Different grade of mineral sort out at mine	No Proposal	Nil	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no mineral rejects/subgrade generation. Entire ROM is being sale to the nearby cement plants		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No Proposal	Nil	
8b	Concurrent use or storage of topsoil	No Proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed	OB/waste stacked separately	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	During the year, no area is mature enough for restoration	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	300 Saplings proposed during the year 2021-22	300 (Virgin area)	Survival rate is about 70-80%
8g	Survival rate	80%	80%	
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 May-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: Ashutosh Trpathi Geologist: Devnath Pathak	Appointed as per rule

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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: 3.616 ha. Roads and Infra. : 0.203 ha. OB/waste dump: 0.579 ha. Green Belt: 0.013 ha.	As submitted by lessee
9d	Scrutiny of Annual return on afforestation	Afforestation as per MP and AR 300 saplings planted in the lease area with survival rate of 80%.	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 161750 T & actual production carried out 123935 t	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex mine Price : Rs.276.07, Cost of production = Rs. 241.60	As submitted by lessee
9i	Scrutiny of Annual return on Fixed assets	Fixed assets as per AR: Value of Fixed Assets – Rs - 4686726	
9k	Scrutiny of Annual return on mining Machineries	DUMPER - 17.000 TONNE -3 DUMPER - 10.000 TONNE -3 FRONT END LOADER - 1.200 CUM-3 WATER TANKER - 5000.000 LITRE - 1 PUMPS (NON-ELEC.)- 650.000 L/MN -2 ROCK DRILL (NON-ELEC.) - 32.000 MM -1 Non Electrical	Above machines are deployed in the lease area

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

1. Rule – 11(1) of MCDR 2017 dated 21/07/2023
2. Rule 31(4) of MCDR 2017 dated 21/07/2023
3. Rule 34A(2) of MCDR 2017 dated 21/07/2023

Date:

Name: Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer