

INSPECTION DATASHEET**General**

S.N.	Particulars	Details
1	Name of the Mine Date of Inspection: Name of Inspecting Officer	Bhatoora Limestone Mine 6.062 Hect 26-06-2023 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 - 6.062 Hect
3	Mine code	38MPR35122
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5447/2011
5	Last Inspection Details	Inspecting officer – Shri Sanjay Girhe Date of Inspection – 26/07/2022 VL pointed out - 11(1), 26(2), 31(4), 34A(3) Status – Compliance on dated – 12/12/2022
6	Mine official present during the inspection	Shri K K Chandra, Agent, Shri Sharad Dubey, Manager
7	Name of the Lease, Address, Phone, email and fax number	M/s Maihar Stone and Lime Company Pvt Ltd Address- Station Road, Maihar, Distt - Satna (M.P.) -485771 Email- nmdubash@gmail.com
8	Village	Bhatoora
9	Taluka/Mandal	Maihar
10	District	Satna
11	Pin code	
12	State	M.P.
13	Post Office	
14	Nearest Police Station	
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	21-01-1977
17	Date of Execution	21-01-1977
18	Date of opening of Mine	
19	Date of First Renewal, if applicable and its period & expiry	21-01-1997 to 20-01-2017 (20 Years)
20	Date of Second Renewal, if applicable and its period & expiry	21-01-2017 to 20-01-2027 (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	Shri Shailendra Kumar Worah Address- Telephone Exchange road, Opposite CC Hazra Clinic, Dhanbad, Jharkhand - 826001 Email- nmdubash@gmail.com Mob No- 8002444111,
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K. K. Chandra
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sharad Dobey
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Sharad Dubey
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Ram Raj Kushwaha
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP/Satna/Limestone/MPLN-17-/1998-99 DTED 06-09-1999
28	Date of Approval of Scheme of Mining/Modified	MP/Satna/Limestone/RMP-37/2022-23

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	Scheme of Mining with five- year period and specific condition in approval letter, if any.	DATED 30-08-2022
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	4 Boreholes	3 Boreholes	Violation Pointed Out
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	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 G1 level G1 : 6.062 ha	
1e	Balance reserves as on 01.04.2023	531754 tons	531754 tons	
1f	General remarks of Inspecting officer on geology, exploration etc.	In the approved mining plan, 04 nos. bore holes were proposed in the year 2022-23. But only 03 nos boreholes exploration work was done in the mine. Violation Pointed Out . The occurrence of Limestone in the lease area is stratigraphically controlled and is associated with Semri group of Vindhyan super group. Rocks of this formation comprise of shale, Limestone and dolomite.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	It was worked in quarry-1 & 2 and also proposed to merge quarry -1 & 2.	Working carried out as per the proposed locations	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Top soil bench of 2mts, OB benches of 4mts & limestone benches of 8-9mts proposed	Working carried out as per the proposals & benches heights maintained	
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.19 Tonnes/CuM	Acheived as 1:0.12 Tonnes/CuM	
2d	Quantity of topsoil generation in m ³	6000 Cubic meter	3000 Cubic meter	
2e	Quantity of overburden generation in m ³	15885 cubic meter	4000 cubic meter	Violation pointed out
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	In the mining lease area there are four working pit/quarry and its dimensions are- Quarry-1 (160m x)(95-13)m x 38m. Quarry-2: (130m x 60m x 10m), Quarry-3 : (65m x 45m x 15m and Quarry-4 : (60m x 25m x 7)		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Working was proposed in Quarry-1 & 2	Working carried out in Quarry-1 & 2	
3b	Quantity of ROM mineral production proposed (2022-23)	Proposed as 130767 MT	Achieved as 36920 MT	Violation pointed out under rule 11(1)
3c	Recovery of Salable/usable mineral from ROM production	Proposed as 80%	Acheived about 80%	Remaining 20% dolomite as minor mineral
3d	Quantity of mineral reject generation	No Proposals	NIL	
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	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	No Proposals	Not applicable	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling & blasting proposed	Drilling & blasting carried out as per the proposals	
3k	Provision of mining machineries in mineral benches	Ex 210, PC 300, 1.20 Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	Ex 210, PC 300, 1.20 Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches height in OB & Mineral proposed	Benches height in OB & Mineral found suitable	Benches height in OB & Mineral being

					maintained as proposed
3m	Total area covered under excavation /pits	Proposed as 4.50 Ha as per approved MMP	Achived as 3.860 Ha as per annual return 2022-23		
3n	Ore to OB ratio for the pit/mine during the year	Proposed as 1:0.19 Tonnes/CuM	Acheived as 1:0.12 Tonnes/CuM		
3o	Total area put in use under different heads at the end of year	Pits-4.50 Ha Waste Dumps-0.40Ha Infrastructure-0.05Ha Roads-0.20 Ha	Pits-3.860 Ha Waste Dumps-0.530Ha Infrastructure-0.05Ha Roads-0.20 Ha		No lateral development carried out during previous years
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	148298	Nil	
		2019-20	148715	98715	
		2020-21	151593	56220	
		2021-22	132345	131694	
		2022-23	130767	36920	
3q	General remarks of inspecting officer on method of mining etc	Mechanised open cast working proposed by using Excavator /JCB & dumper combination with deep hole drilling & blasting.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No Proposals	Concurrent use for backfilling proposed towards north-Eastern side of ML area	
4b	Location of topsoil, OB & mineral reject dumps	No Proposals	Concurrent use for backfilling proposed towards north-Eastern side of ML area	
4c	Number of Dumps within lease area and outside lease area	Single overburden dump towards western part of ML area existing	Single overburden dump towards western part of ML area existing	OB dump near quarry -3 existing /located
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Existing OB dump outside UPL	Existing OB dump outside UPL	Single OB dump outside UPL noticed
4e	Number of Active & Alive dumps	Single active OB dump in ML area	Single active OB dump in ML area	
4f	Number of deed dumps	No dead dumps in ML area	No dead dumps in ML area	
4g	Number of dumps established	No such proposal to establish the dumps	No OB dumps have been stabilised	-
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	Nil	

4k	Specific commends of inspecting officer on waste dump management	Overburden generation proposed during the year and concurrently proposed for backfilling in mined out area towards north-Eastern part.
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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 in working pit carried out at very few locations	Full extraction in working pit carried out at very few locations	
5b	Area under backfilling of mined out area	Barrier zone near pillar no 12 to 13	Not done	Violation pointed out under rule 11(1)
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Used for plantation in backfilled area	Nil	
5d	Total area fully reclaimed & rehabilitated	Total 0.91 ha area is fully reclaimed and rehabilitated till now	Total 0.91 ha area is fully reclaimed and rehabilitated till now	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Very limited mined out area has been reclaimed and rehabilitated. In future scope of backfilling and reclamation shall be exists as the mine is about to reach at UPL stage		

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	Not provided	Not provided	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable	

	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.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Scope of backfilling/reclamation & rehabilitation exist at some locations in mined out pit area. 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	130767 MT proposed as total ROM production for despatch. Grade wise sorting proposed within lease area.	3815 MT dispatched as as BF grade limestone. Grade wise sorting carried out for cement & BF grades of limestone	
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	Bf grade limestone and cement grade limestone sorting & sizing proposed in ML are	Bf grade limestone and cement grade limestone sorting & sizing carried out in ML area	Sizing and sorting carried out as per the proposals
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	Limestone of BF grade and remaining for cement grade are being sized and sorted in ML area.		

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)	No separate dumping proposed	Concurrent use for backfilling proposed but not done	Violation under Rule 11(1) of MCDR,2017 pointed out and issued to the lessee.
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)	During the year 2022-23 total 361 saplings planted in ML area	During the year 2022-23 total 361 saplings planted in ML area	
8g	Survival rate	60%	60%	
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: Shri Sharad Dubey Geologist: Shri Ram Raj Kushwaha	Details submitted in AR

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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 Pits-3.860 Ha Waste Dumps-0.530Ha Infrastructure-0.05Ha Roads-0.20 Ha	As submitted by lessee
9d	Scrutiny of Annual return on Afforestation	Afforestation as per MP and AR 361 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	BF Grade Limestone: O/S-7431.095 MT Production – 36920 MT Despatch-3815 MT C/S-40536.095 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine Price : Rs.325, Cost of production = Rs. 306.13	As submitted by lessee.
9i	Scrutiny of Annual return on Fixed assets	Fixed assets as per AR: Value of Fixed Assets – Rs – 5631054/-	
9k	Scrutiny of Annual return on mining Machineries	Ex 210, PC 300, 1.20 Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	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 - 34A(2) of MCDR 2017

Date:

Name: Shri Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer