

INSPECTION DATA SHEET For The Year 2023-24**General**

S.N.	Particulars	Details
1	Name of the Mine	Nanhwara Limestone Mine
	Date of Inspection:	28.06.2024
	Name of Inspecting Officer	Shri Abhishek Ranjan Gautam, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	18.09 Ha
3	Mine code	38MPR47123
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/543/2011
5	Last Inspection Details	27/06/2023
6	Mine official present during the inspection	Shri Ajay Pandey (Geologist) Shri Ashish Suhane (Mining Engineer) Shri Arpit Agrawal (Agent)
7	Name of the Lease, Address, Phone, email and fax number	Nanhwara Limestone Mine, Village Nanhwarakalan, Tehsil Vijayraghavgarh, district Katni M.P 483775
8	Village	Nanhwarakalan
9	Taluka/Mandal	Vijayraghavgarh
10	District	Katni
11	Pin code	483501
12	State	Madhya Pradesh
13	Post Office	Katni
14	Nearest Police Station	Kymore
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	06.02.2007 (06/02/2007 to 05/02/2027)
17	Date of Execution	06.02.2007
18	Date of opening of Mine	Information not provided
19	Date of First Renewal, if applicable and its period & expiry	Under process
20	Date of Second Renewal, if applicable and its period & expiry	--
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	--
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Arpit Agrawal, Beside Mitra Vihar colony, Khirahni road Katni M.P 483501. Mobile:- 9425802198 Arpit_ca2007@yahoo.com
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Ashish Suhane, Jalpa devi Ward, Khirahni Road Katni M.P 483501 Mobile:- 9893653480
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Ashish Suhane, Jalpa devi Ward, Khirahni Road Katni M.P 483501

		Mobile:- 9893653480, appointed on – 04-07-2015
26	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Ajay Pandey, Msc Geology, mob – 9589406417, Appointed on – 01/11/2023
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in 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.	27.05.2022 (2022-23 to 2026-27)
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)	Fully Mechanised
32	Captive/Non-Captive	Non- Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	10	10	
1b	Exploration over lease area for Geological axis 1 or 2.	Lease area to be explored upto G1 level	Lease area explored upto G1 level	GSR not submitted. Violation pointed out
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Yes	2.75 lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Lease area to be explored upto G1 level	Lease area explored upto G1 level	GSR not submitted. Violation pointed out
1e	Balance reserves as on 01.04.2024	111 – 362720 Tones 122 – 2991772 Tones		
1f	General remarks of Inspecting officer on geology, exploration etc.	Lease area explored upto G1 level. GSR not submitted. Violation pointed out.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N 2656230 - 2656390 E 454420 - 454650	N 2656230 - 2656390 E 454420 - 454650	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Benches in Top soil - 01 no Overburden Benches - 01 no, Mineral Limestone - 02 no	As per proposal	Benches configuration found in order as proposed
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.08	
2d	Quantity of topsoil generation in m ³	3569	3560	

2e	Quantity of overburden generation in m ³	2631	2630	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Benches configuration found in order as proposed.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	02	02	Both pit are active in present condition.
3b	Quantity of ROM mineral production proposed (2023-24)	137194 t – ROM Sealable – 109756 T	90640 t	
3c	Recovery of Salable/usable mineral from ROM production	80%	100%	
3d	Quantity of mineral reject generation	27438 T	NIL	
3e	Grade of mineral reject generation and threshold value declared	Inter burden	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	Manual sizing & sorting proposed	Manual sizing & sorting carried out	
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	L&T PC-200, 1.2Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	L&T PC-200, 1.2Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods 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	Yes	Found suitable	
3m	Total area covered under excavation /pits	Yes	3.14 ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.07	1:0.08	

3o	Total area put in use under different heads at the end of year	7.49 ha	7.50	
3p	Production of ROM mineral during last five-years period, as Applicable	Year	Proposal	Achievement
		2019-20	44888	42870
		2020-21	178325	44160
		2021-22	200000	43490
		2022-23	138878	89920
		2023-24	137194 t – ROM Sealable – 109756 T recovery – 100%	90640
3q	General remarks of inspecting officer on method of mining etc	Mechanised open cast 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)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	02 Soil & 03 OB dumps scattered throughout the lease.	S. No. Dump ID Dump Status Type of Dump Total Dump Quantity (t) Area covered by Dump (Ha) Height (m) Location 1 Dump-1 Active OB 6000 0.12 4 N 2655900 – 2656005 E454040 - 454100 2 Dump-2 Active OB 3000 0.10 3 N2655989 - N2656038 E454368 - 454398 3 Dump-3 Active Top Soil 80000 0.66 18 N2656081 - N2656187 E454600 - 454696 4 Dump-4 Active OB 100000 0.72 20 N2656209 - N2656348	

			E454819 - 454893 5 Dump-5 Active Top Soil 12000 0.33 5 N2656418 - N2656471 E454798 - 454872	
4c	Number of Dumps within lease area and outside lease area	05 dumps within lease	05 dumps within lease	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of Active & Alive dumps	05	05	
4f	Number of deed dumps	NIL	NIL	
4g	Number of dumps established	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	30m garland drain	
4i	Length of Retaining wall or garland drain all along dump	No proposal	30m garland drain	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	There are 03 overburden dumps & 02 Topsoil dumps in mining lease area. Generated OB proposed for backfilling in mined out pits area during the year.		

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	As per proposal	
5b	Area under backfilling of mined out area	150 m2	Not done	Violation pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Proposed for plantation purpose over backfilled area	Concurrent use of top soil for plantation purpose carried out over backfilled area	
5d	Total area fully reclaimed & rehabilitated	Not specified	100 sqm	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Overburden generated from mine proposed for reclamation by backfilling over mined out limestone exhausted area		

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		Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	0.1 ha	0.1 ha	
	ii) Afforestation done (ha)	0.1 ha	0.1 ha	
	iii) No.of saplings planted during the year	200	425	
	iv) Cumulative no. of plants	Not specified	3350	
	v) Any other specific method of rehabilitation	Not proposed	Not done	
	vi) Cost incurred on watch & care during the year	Not specified	Not specified	
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 Proposals	Not applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	No Proposals	Not applicable	

6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	As per proposal carried Out. Record of periodical monitoring data checked and Observed that records are maintained.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP operations carried out in the mines was satisfactory.		

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	Manual	Manual	
7c	Different grade of mineral sort out at mine	Not specified	BF grade	
7d	Any beneficiation process at mines	No Proposals	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral is being conserved by grade wise sorting in the lease area.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Carried out as per proposal	
8b	Concurrent use or storage of topsoil	Yes	Used for plantation in backfilled area	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Dumps proposed on existing dumps during the year	Dumping carried out as per the proposals	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling	Backfilling not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Carried out	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	425 saplings planted during the year 2023-24	
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads to control airborne dust done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is satisfactory.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Submitted within time limit	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Shri Ashish Suhane Geologist: Shri Ajay Pandey	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 4.790 4.790 (iii) Reclaimed-rehabilitated 0.000 0.100 0.100 (iv) Used for waste disposal 0.000 0.940 0.940 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.100 0.100	

		(vi) Used for any other purpose (specify) Plantation 0.000 2.100 2.100	
9d	Scrutiny of Annual return on Afforestation	425 nos of tree planted during the year	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM stock for BF grade – 24973.730 tones	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex. Mine price – Rs 493.93/- Cost of Production – Rs 280.08/-	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* (₹ 10592479)	
9k	Scrutiny of Annual return on mining Machineries	L&T PC-200, 1.2Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	

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 18-07-2024

Rule – 12 (4)b of MCDR 2017 Dated – 18-07-2024

Date:

Name: Shri Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer