

INSPECTION DATASHEET

I/34467/2024

General

S.N.	Particulars	Details
1	Name of the Mine Date of Inspection: Name of Inspecting Officer	Badari Limestone/Dolomite Mines (5.04Hect.) 26/04/2024 Shri. Abhishek Ranjan Gautam
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	5.04 Hect-Non Forest
3	Mine code	38MPR18013
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/614/2011
5	Last Inspection details	Last Inspection – 14/06/2023 by Shri R S Garg, ACOM Rule Violated – 11(1), 12(4) & 45(7) Compliance – 18/08/2023
6	Mine official present during the inspection	Shri Vinod Patel, Manager (Mines)
7	Name of the Lease, Address, Phone, email and fax number	<u>S.N. Sunderson & Co.Opposites-1/56,Sector-1,Daddadham Katni</u>
8	Village	Badari
9	Taluka/Mandal	Vijayraghavgarh
10	District	Katni
11	Pin code	483880
12	State	Madhya Pradesh
13	Post Office	Nanwara
14	Nearest Police Station	Kymore
15	Nearest Railway Station	Jhukehi
16	Date of Grant of Mining Lease	02/05/1977
17	Date of Execution	02/05/1977
18	Date of opening of Mine	02/05/1977
19	Date of First Renewal, if applicable and its period & expiry	-
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	Shri. Riju Jauhar S.N.Sunderson & Co.1,Dashbandhu Gupta Road New Delhi 9811063640 riju.jauhar@snsunderson.com
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	-
	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri R.K.Tiwari, Gadhiya Tola Satna Contact.katni@snsunderson.com 9907068951
24	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri R.K.Tiwari Gadhiya Tola Satna (M.P.) 9907068951

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25	Name of the Geologist, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Atul Pandey S.N.Sunderson & Co.Opp. S-1/56,Sector-1 Daddadham Katni (M.P.) 6261407157 contact.katni@snsunderson.com
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.	29/12/2021
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	-
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	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Entire mineralized lease area explored up to G – 1 level.	Entire mineralized lease area explored up to G – 1 level.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Engeotech Consultant	191602/- on 25/07/2023	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Nil	
1e	Balance reserves as on 01.04.2023 (111+ 122)	434990.400 mt	145596.680 mt	
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. entire mineralized area are explored under G1 level.		

Development

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S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Central and western part of the quarry	Central and western part of the quarry	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in Topsoil, OB and minerals proposed	Separate benches in Topsoil, OB and minerals maintained	
2c	Stripping ratio or ore to OB ratio (2023-24)	1:0.11	1:0.10	
2d	Quantity of topsoil generation in T (2023-24)	9918	6637	
2e	Quantity of overburden generation in T (2023-24)	15444	15000	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development of pit progressively going on as per proposal and appear suitable for the deposit and lease area restriction.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed (2023-24)	244727 M.T.	133518 M.T.	Violation pointed out under rule 11(1)
3c	Recovery of Salable/usable mineral from ROM production Waste	80%	100%	
3d	Quantity of mineral reject generation	48945 t	Nil	100 % recovery
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 method	Mechanized method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Drilling 143 Mtr/Day in one shift	Drilling 80 Mtr/Day in one shift	
3k	Provision of mining machineries in mineral benches	2 Backhoe 6 Dumper 1 Air compressor	1 Backhoe 2 Dumper 1 Air compressor	
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	Not specified	3.9	

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3n	Ore to OB ratio for the pit/mine during the year	1:0.11	1:0.10	
3o	Total area put in use under different heads at the end of year	4.81	4.0	
3P		2019-20	227511	226030
		2020-21	145570	145422.360
		2021-22	99050	99029.920
		2022-23	133523.8	133518.310
		2023-24	168521.5	145596.680
3q	General remarks of inspecting officer on method of mining etc	Pit has reached upto 60-64m depth. There is no scope for further Advancement of pit towards north and south . Advancement of pit is only possible towards North West with following the statutory boundary limit of North and South.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate generation of top soil and OB proposed. In place of separate dumping simultaneous utilization of both proposed.	As per approved proposal OB utilised for backfilling followed by topping by generated top soil from the mine.	
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Not applicable	
4c	Number of Dumps within lease area and outside lease area	within lease area-1	within lease area-1	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	UPL	UPL	
4e	Number of Active & Alive dumps	0	0	
4f	Number of deed dumps	1	1	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Not Proposed	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Not Proposed	
4j	Number of settling ponds	-	-	
4k	Specific commends of inspecting officer on waste dump management	Waste dump management was carried out in line with the approved mining plan.		

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	Backfilling of mined out area of 0.15 hect area proposed	Backfilling not done as proposed	

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5b	Area under backfilling of mined out area	0.15	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	rehabilitation	rehabilitation	
5d	Total area fully reclaimed & rehabilitated	0.30	0.05	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling not done as proposed. Violation pointed out under rule 11(1)		

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	Yes	PMCP report attached with AR, 2022-23	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	0.15	0.05	
	ii) Afforestation done (ha)	0.15	Nil	
	iii) No.of saplings planted during the year	250	Nil	Violation pointed out
	iv) Cumulative no. of plants	1150	855	
	v) Any other specific method of rehabilitation	No	No	
	vi) Cost incurred on watch & care during the year	100000	100000	
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	Yes	Not done	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	<ul style="list-style-type: none"> 50 Nos. 0.15 ha Backfilling & Black soil Spreading 	<ul style="list-style-type: none"> 50 Nos. 0.05 ha Backfilling & Black soil Spreading 	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	As per proposal carried out. Record of periodical monitoring data checked and	

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		observed that records are maintained.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	As per proposal	

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Mineral 244727 tonne Saleable Mineral 195782tonne	ROM mineral -NA Saleable Mineral- 145596 tonne.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanical	mechanical	
7c	Different grade of mineral sort out at mine	BF Grade	BF Grade	
7d	Any beneficiation process at mines	No	No	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Saleable mineral is being dispatched from the lease area as per records .Mineral is reportedly being dispatched directly from the ML area to different users.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	As per approved proposal.	
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed for topping over backfilled area.	As per approved proposal.	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed As simultaneous reclamation proposed.	As per approved proposals	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste dump- 0.56 Ha.	Utilised as per proposal	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Brokenout statutory barrier zone including part of pit covered under phased restoration.	As per approved proposal.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	150	Nil	Violation pointed out
8g	Survival rate	80 %	NA	
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 needs improvement		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Online Monthly Return Submitted Filled till April-2024	
		Online Annual Return Submitted Filled till 2022-23 and Annual Return of 2023-24 is on Process.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer – Shri R K Tiwari Geologist – Shri Atul Tiwari	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings - 3.890 Reclaimed-rehabilitated 0.000 Used for waste disposal - 1.180 Used for any other purpose (specify) Dump area & Green Belt - 0.950	
9d	Scrutiny of Annual return on afforestation		
9e	Scrutiny of Annual return on mineral	No	
	reject generation (Grade & Quantity)	No	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	No	

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I/34467/2024	9g Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ar not submitted as on date	
	9i Scrutiny of Annual return on Fixed assets	Rs.1032585/-	
	9k Scrutiny of Annual return on mining Machineries	1 Backhoe 2 Dumper 1 Air compressor	

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

Rule 11(1) of MCDR 2017 – dated 15-05-2024

Rule – 31(4) of MCDR 2017 Dated – 15-05-2024

Date: 16-06-2024

Name: Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer