

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting officer & designation & accompanying person	Arun Kumar Gadatia, Assistant Mining Engineer, Indian Bureau of Mines, Raipur
2	Date of inspection	06/12/2021 (By Shri Mahesh Rao) (Power of Attorney)
3	Name of the Mine	Badanji Limestone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area – 1.62 Ha. (Non-Forest Govt Land)
5	Mine Code	38CHG01010
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/9160/2012
7	Name of the lessee, Address, phone, email and fax number	M/s Neha Stone, Prop:- Smt Swati Garg H.No.- 118&119, Sun City, Lal Bagh, P.O.-Jagdapur, District- Bastar (C.G.) Mob. No.- 9425258108, 7974176355 Email –maheshrao56@gmail.com
8	Village	Badanji
9	Taluka/Mandal/ District	Lohandiguda, District- Bastar
10	State	Chhattisgarh
11	Post office & PIN	494001
12	Nearest police station	Lohandiguda
13	Nearest Railway station	Jagdapur
14	Date of Grant of Mining Lease	29/04/2003
15	Date of Execution	02/07/2003
16	Date of opening of Mine	02/07/2003
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Prop:- Smt Swati Garg House No- 118-119, Sun City, Lal Bagh, PO- Jagdapur, Distt- Bastar (C.G.) – 494001 E-mail: anilgarg30@rediffmail.com
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Mahesh Rao (Power of attorney) House No: 118-119, Sun City, Lal Bagh, PO- Jagdapur, Distt- Bastar (C.G.) – 494001 Phone no:- 07782-237087 E-mail: maheshrao56@gmail.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Name- Krishna Kumar Tandan Address- Ward No.19, H.No. 181, Near Guru Ghasidas Temple, Tarbahar Bilaspur (C.G.) 495001 Mob.- 78987-63202 Date of appointment –29/11/2021

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name- Krishna Kumar Tandan Address- Ward No.19, H.No. 181, Near Guru Ghasidas Temple, Tarbahar Bilaspur (C.G.) 495001 Mob.- 78987-63202 Date of appointment –29/11/2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Yes, as per rule followed by Geologist and Mining Engineer
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan- vide letter No. BST/LST/MPLN-1122/2017-Raipur dated 24/11/2017 For Period – 2018-19 to 2022-23 Specific condition:- General condition has been given in approval letter.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter No : BST/LST/MPLN-810/NGP, dated 11/08/2011 for period (2008-09 to 2012-13) Letter No : BST/LST/MPLN-810/NGP, dated 02/02/2016 for period (2013-14 to 2017-18)
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast Mining under 'B' Category (Manual)
29	Category (Fully Mechanised, Others or Manual)	'B' Category (Manual),
30	Captive/Non Captive	Non Captive
31	Existing EC Limit and validity	4620 T, dated 18/02/2019 & validity 28/04/2023
32	Status of Financial Assurance as per rule 27 of MCDR, 2017	FA amount submitted as per rule and Validity – Upto 13/11/2022

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year (2020-21)	No	Same as proposal	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	No Proposal	Not proposed during period 2018-19 to 2022-23
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2020 (in Million)	238171.60 Tonnes		Mine out

	Tonnes)		
1f	General remarks of inspecting officer on geology, exploration etc.	<p>The area is occupied by Indravati Group of rocks which is belonging to upper proterozoic & underlain by Bengal Group of rocks of Archaean age. The kanger limestone is found to occur in and around village Badanji, Chhindgaon, Chandanpur, Chhaparbhanpuri, Sirisguda, Belar etc. It is hard, bedded form, compact and breaks with conchoidal fracture. The limestone occurring in the area is generally striking NE-SW and dipping very gently about 2° to 3° in SE, almost it is horizontally bedded. Locally, following lithological sequence is occurring in the area: Top soil/Murum: 0.0 to 0.5 meter. Bedded Limestone : about 20m thickness. Intercalated clay: Inter-layered within limestone beds of about 0.05 to 0.5m thick.</p> <p>Exploration: Earlier in the Mining Period of Mining Plan/Scheme no any exploratory work carried out by the applicant. Additional time to time exploratory work will be required to maintain data as per the requirement of IBM circular and up gradation of reserves is essential. Exploratory drilling work has not been proposed in the period 2018-19 to 2022-23. After mined out up to RL 551M, two boreholes will be proposed under G1 category in the next Mining Plan.</p>	

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	Centre part of lease area	As per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Top soil – Nil Mineral -3.0M.	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	No OB generation reported.
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	OB generation not reported.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development is in order.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 pit	As per proposal	

3b	Quantity of ROM mineral production proposed	20000 Tonne	1210 Tonne	
3c	Recovery of saleable/usable mineral from ROM production	19000.02 Tonne	All material useable from production	
3d	Quantity of mineral reject generation	1000 Tonne	Nil	
3e	Grade of mineral reject generation and threshold value declared	Less than 34% CaO.	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	Drilling & Blasting	Nil	
3k	Provision of mining machineries in mineral benches	Jack Hammer	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of Mineral – 3.0M.	As per proposal	
3m	Total area covered under excavation/pits	0.512 Ha	0.302 ha	
3n	Ore to OB ratio for the pit/mine during the year	Not proposed	NA	
3o	Total area put in use under different heads at the end of year	Pit-0.512 Ha Waste -0.076Ha Soil – 0.050Ha	Pit-0.302 Ha Waste -0.010Ha Soil – 0.015Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Year- 2018-19: 20000T Year- 2019-20: 20000T Year- 2020-21: 20000T Year- 2021-22: 20000T Year- 2021-22: 20000T	Year- 2016-17: 9863 Tonne Year- 2017-18: 870 Tonne Year- 2018-19: Nil Year- 2019-20: Nil Year- 2020-21: 1210T	
3q	General remarks of inspecting officer on method of mining etc.	Manual method of mining adopted.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	NA	NA	No separate OB dump.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	NA	NA	No rejection.
4c	Number of dumps within lease area and outside lease area	NA	NA	No active dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Temporary dump.	Temporary dump.	Temporary dump.
4e	Number of active & alive dumps	Temporary dump.	Temporary dump.	Temporary dump.
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	NA	
4i	Length of Retaining wall or garland drain all along dump	Nil	NA	
4j	Number of settling ponds	Nil	NA	
4k	Specific comments of inspecting officer	Waste dump as per proposal.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NA	It is a running mine, so there is no backfilling work started.
5b	Area under backfilling of mined out area	Not proposed	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Not proposed	NA	
5d	Total area fully reclaimed & rehabilitated	Not proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	There is no backfilling & reclamation work started.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Yes	Submitted as per norms	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) Nil ii) 0.014 Ha. iii) 25nos. iv) 75nos. v) Nil vi) 12500/-	i) NA ii) 0.16 Ha. iii) 150nos iv) 550nos. v) NA vi) 15000/-	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP report submitted.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	20000 Tonne	1210 Tonne	Due to lockdown and loss of market.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	NA	
7c	Different grade of mineral	Not proposed	NA	

	sorted out at mines			
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Crushing & screening carried out for crushing of ROM and screening to different sizes. No beneficiation process adopted.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposed for plantation purpose	As per proposal	
8b	Concurrent use or storage of topsoil	Along the lease boundary	As per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For dump	As per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	50nos	100nos.	
8g	Survival rate	25%	Average 50%	
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Additional plantation, but improvement of survival rate of plantation is less due to COVID-19 pandemic.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Return is Submitted upto– January 2022 Annual Return is submitted upto- 2020-21	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Notice of certain appointment of letter is submitted in Form-H..		
S. N.			Observation of I/Officer	Remarks
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit: 1.50 Ha Use for waste disposal : Nil Occupied by plant, building residential, welfare building & roads: 0.10 Ha Other purpose	Broadly in order	
9d	Scrutiny of Annual return on afforestation	Within Lease area 20 samplings. Out site area : Nil	Survival Rate : 20 %	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral rejection generatation : Nil	Grade less than 34% CaO	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1104.800 tonne	While scrutiny of the annual return 2020-21, it observed that reserve is same as 2019-20 & 2020-21 which needs to be corrected.	Violation pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 310 Ex Mine price : Rs 310		
9i	Scrutiny of Annual return on fixed assets	Fixed assets : Rs 126500		Mentioned in Annual Return.
9k	Scrutiny of Annual return on mining machineries	Manual method of Mining.		No Machineries required.

Details of compliance position of earlier violation pointed out:- No outstanding violations.

Date of last inspection, Name and Designation of the inspecting Officer:

Shri Rudra Narayan Mishra, Senior Mining Geologist. 01-11-2017

During Present inspection violation pointed out under Rule 45 (5)(c) of MCDR, 2017.

नियम	उल्लंघन के प्रकार का विस्तृत ब्योरा
45 (5) (c)	1. While scrutiny of the annual return 2020-21 , it is observed that reserve is same as 2019-20 & 2020-21 which needs to be corrected.

(Name of the inspecting Officer)

**Arun Kumar Gadatia
Asstt. Mining Engineer
Raipur Regional office**