

### MCDR INSPECTION REPORT 2022-23

#### General:

Sl .No.	Particulars	Details
1	Name of the Mine	Nandini –Khundini Limestone Mine
2	Date of Inspection:	28.06.2023
3	Name of Inspecting Officer	Prasant Kumar Sahu, Assistant Mining Engineer
4	Name of official accompanying inspection	Shri B. L Ramani, Lessee and Dr. Manoj Kumar, Geologist
5	Last date of Inspection & Officer	13.06.2022 and Shri Dayanand Upadhyay, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-forest land-3.525 Ha. & Forest land-0.0 Ha. Total = 3.525 Ha.
7	Mine code	38 MPR 13031
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	BM/10125/2012
9	Name of the Lessee, Address, Phone, email and fax number	Bhaktu Lal Ramani House No.- 399, Sindhi Colony, Station Road, Post & District – Durg (C.G.) - 491001 Mobile No.- 8839327409, 9691279042 Email Id: blramani7@gmail.com
10	Village	Nandini- Khundini
11	Taluka/Mandal	Dhamdha
12	District	Durg
13	Pin code	490036
14	State	Chhattisgarh
15	Post Office	Nandini Nagar
16	Nearest Police Station	Nandini Nagar
17	Nearest Railway Station	Bhilai Power House
18	Date of Grant of Mining Lease	27/06/1994 to 26/06/2014 (20 years)
19	Date of Execution	27/06/1994, Further Date of agreement for lease period extension: 19/08/2016
20	Weekly day of rest	Sunday
21	Date of opening of Mine	11/11/1995
22	Date of First Renewal, if applicable and its period & expiry	27/06/2014 to 26/06/2044 (30 years) Supplementary lease executed on 26.08.2016.
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed

27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Not appointed
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Hulash Ram, Mining Engineer, Diploma in Mining Engineering,
29	Name of the Geologist, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Dr. Manoj Kumar, Geologist Phd. in Geology
30	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes
31	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	<b>Mining Plan</b> approved vide letter no. DRG/LST/MPLN-286/NGP Nagpur dated 30/07/1993 <b>Modified Mining Plan</b> approved vide letter no. DR/LST/MPLN-286/NGP/2016/30/RPR, Raipur, dated 10/08/2016 Proposal Period: 2016-17 to 2018-19
32	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	<b>Review of Mining Plan</b> approved vide letter no. Durg/LST/Khayo-1222/2019 dated 30/12/2019 Proposal Period: 2019-20 to 2023-24
33	Mineral(s) granted in lease and approved for Mining	Limestone
34	Method of Mining (Opencast, Underground)	Open Cast
35	Category (Fully Mechanized, Others or Manual)	Category "B" (Manual Mine)
36	Captive/Non-Captive	Non Captive
37	Present EC Status	9000 Tonne obtained on dated 17.11.2020
38	Status of Financial Assurance	Bank Guarantee of Rs.5,00,000/- valid up to 31/03/2024

### Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

#### 1.0 Exploration:

S.N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
1a	Backlog of previous year proposals	02 core boreholes proposed in 2020-21	05 nos. (DTH) boreholes drilled	Total depth: 200 mts.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	M/s Rock Resolve	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	G2-3.525 Ha	G1-3.525 Ha	
1e	Balance reserves as on 01.04.2023 (in Million Tonnes)	Under (122)- 0.37 Million Tonne		As per AR submitted for 2022-23

1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved RMP during the FY 2022-23. However, the lessee has drilled 05 nos. of DTH boreholes of 200 mt. (40 meter each) during the FY 2022-23 against the proposal of 02 core boreholes proposed during FY 2020-21.
----	--	---

## 2.0 Development:

S.N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	In Pit-2 N57 to N90 W30 to W 60  In Pit-1 N 158 to N 180 W 42 to W 65	Carried out within the proposed area	
2b	Separate benches in topsoil overburden and mineral	Separate benches in OB and Mineral proposed	Separate benches maintained in OB and Mineral	Current working restricted to ore body
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.00	
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	No proposal	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Production and development was carried out within the proposed area. However, actual development is less in comparison to proposal for lack of market demand.		

## 3.0 Exploitation:

S. N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
3a	Number of pits proposed for production	Two (02)	Two (02)	As per proposal
3b	Quantity of ROM mineral production proposed in tonne	9000 T	275 T	Within the proposal limit and less production due to lack of market demand
3c	Recovery of Salable/usable mineral from ROM production tonne	95%	95%	
3d	Quantity of mineral reject generation tonne	450 T	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable	
3f	Quantity of sub-grade mineral generation	No proposal	Not applicable	
3g	Grade of sub-grade mineral generation	No proposal	Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	No such study carried out	Not required for limestone mineral
3j	Provision of drilling & blasting in mineral benches	Light shallow drilling and blasting proposed	Light shallow drilling and blasting carried out	
3k	Provision of mining machineries in mineral benches	No proposal for mining machineries	Manual open cast mining adopted	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height in ore 3 mt.	Average bench height and width maintained	
3m	Total area covered under excavation /pits	1.534 Ha up to end of plan period 2023-24	About 1.6 Ha up to 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.00	No generation of OB/Waste
3o	Total area put in use under different heads at the end of year	1.671 ha up to end of plan period 2023-24	About 1.7 ha up to 2022-23	
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2018-19: 9000 T	2018-19: Nil	Actual production within the proposed limit
		2019-20: 9000 T	2019-20: Nil	
		2020-21: 9000 T	2020-21: Nil	
		2021-22: 9000 T	2021-22: 1179.63 T	
		2022-23: 9000 T	2022-23: 275 T	
3q	General remarks of inspecting officer on method of mining etc.	Mining operation is in low scale. The production is less in comparison to proposal due to lack of market demand.		

#### **4.0 Solid Waste Management-Dumping:**

S.N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Proposed	Nil	No generation topsoil, OB & mineral reject reported
4b	Location of topsoil, OB & mineral reject dumps	Eastern part of lease	Nil	
4c	Number of dumps within lease area and outside lease area	01 dump	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit	Outside UPL	Nil	
4e	Number of Active & Alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps established	No proposal	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific commends of inspecting officer on waste dump management	No topsoil, OB & mineral reject generated reported during the FY 2022-23.		

#### 5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not applicable	Area is not fully exhausted for back filling
5b	Area under backfilling of mined out area	No proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling.		

#### 6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	PMCP report to be submitted	PMCP report has not been received	Violation of Rule 26 (2) of MCDR,2017 is issued
6b	Management of worked/mined out benches	No proposal	Nil	No area is matured for backfilling
	Area available for rehabilitation (Ha)			
	Afforestation done (ha)			
	No. of saplings planted during the year			
	Cumulative no. of plants			
	Any other specific method of rehabilitation			
Cost incurred on watch & care during the year				
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	No proposal	Nil	No area is matured for backfilling

6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	No proposal	Nil	No waste dump within the lease area
6e	Compliance of Environment monitoring (core zone & buffer zone)	Proposed	Environmental monitoring carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	The annual return in respect of PMCP under Rule 26(2) was not submitted for which violation is issued.		

### **7.0 Mineral Conservation:**

S.N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No Proposal	Not done	Not required for Limestone
7c	Different grade of mineral sort out at mine	No proposal	Nil	Not required
7d	Any beneficiation process at mines	No proposal	Nil	Not required
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mining operation is being carried out by open cast manual method (Category-B). No proposal for beneficiation of limestone.		

### **8.0 Environment:**

S.N.	Item	Proposals (2022-23)	Actual (2022-23)	Remarks
8a	Separate removal and utilization of topsoil	No proposal	Nil	Top soil is not encountered at this stage and working is in ore zone only
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines	No proposal	Nil	No waste encountered
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	No area is matured for reclamation

8f	Baseline information on existence of plantation & additional plantation done	Plantation proposed: WML: 100 nos. saplings in 2022-23	Within lease area-20 nos.	As per AR submitted for 2022-23. Violation under Rule 11(1) of MCDR, 2017 issued for less plantation.
8g	Survival rate	Not specified	Within lease area-50%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Top soil and OB not encountered at this stage and mineral is not fully exhausted for reclamation and rehabilitation. Violation under Rule 11(1) of MCDR, 2017 issued for less plantation.		

### 9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being submitted regularly AR submitted up to 2022-23		AR for the FY 2022- 23 submitted on 11.06.2023.
S N	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Hulash Ram, Geologist- Dr. Manoj Kumar	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current working- 1.737 ha Plant, Building etc.- 0.311 ha	Covered under current working- 1.737 ha Plant, Building etc.- 0.311 ha	
9d	Scrutiny of Annual return on afforestation	Within lease area-20, Survival rate is less than 50%	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	No generation of mineral rejects reported	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening-0.00 T Production-275 T Closing-0.00 T	Opening-0.00 T Production-275 T Closing-0.00 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value-Rs 16260/ Ex. Mine Price- Rs. 542/- Cost of production- Rs. 511/-	Sale value-Rs 16260/-, Ex. Mine Price- Rs. 542/- Cost of production- Rs. 511/-	
9i	Scrutiny of Annual return on Fixed	Rs. 32100000/-	Rs. 32100000/-	

	assets			
9k	Scrutiny of Annual return on mining Machineries	Crusher 30 TPH	Observed in mine	

**10- Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.**

Date of last inspection	Violation pointed out	Compliance reported
13.06.2022	Nil	-

Details of violations observed during current inspection: Violation 11(1) and 26(2) of MCDR, 2017 is pointed out after current inspection.

Date: 27.09.2023

प्रशान्त कुमर साहू / Prasant Kumar Sahu  
 सहायक खनन अभियंता / Assistant Mining Engineer  
 भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur