

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Jabalpur Regional office

Mine code: 38MPR35325

(i)	Name of Inspecting officer	Shri Sudip Ranjan Mazumdar
(ii)	Designation	Regional Mining Geologist
(iii)	Accompanying mine official with Designation	Shri Akhilesh Singh, VP (Mines) Shri Bharat Sahasrabudhe, AVP (Geology) Shri Nitya Dixit, DGM (Geology) Shri Deepak Gupta, Mines Manager
(iv)	Date of Inspection	19.07.2024

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	Bandhi Ghorwai Limestone mine
	(b)	Registration Number	IBM/15031/2013
	(c)	Category	Fully Mechanized
	(d)	Type of Working	Opencast
	(e)	Postal address	
		State	Madhya Pradesh
		District	Maihar
		Village	Bandhi Ghorwai
		Taluka	Maihar
		Post Office	Ajwain
		Pin code	485772
		Fax	N.A
		email	maihar.mines@birlacorp.com
		Phone No	033 6603 3300- 02
	(f)	Police Station	Badera
	(g)	First Opening date	15.01.2016
	(h)	Weekly day of rest	Sunday
2	Address for Correspondence		
3	(a)	Lease Area	129.802 Ha
	(b)	Period of lease	30 years
	(c)	Date of Expiry	23.02.2042
4	Mineral Worked (Main)		Limestone
5	Name of address of the Lessee with Phone, email and fax number		M/s. RCCPL Private Ltd. 1, Shakespeare Sarani, A.C.Market (5 th Floor), Kolkata, Pin- 700071 Phone- 033 6603 3300- 02 Email- maihar.mines@birlacorp.com Fax- +9133 22884426
	Name of address of the Owner/Nominated Owner with Phone, email, fax number and Date of appointment		Shri Sandip Ghose, Birla Corporation Limited 1, Shakespeare Sarani, A.C. Market, 2nd Floor Kolkata, West Bengal, 700071 Phone- 03366033379, sandip.ghose@birlacorp.com Date of appointment- 02.02.2023

	Name of address of the Agent with Phone, email, fax number and Date of appointment	Shri Prahlad Kumar Choudhary RCCPL Pvt. Ltd. Village Bharauli, Post – Itahara Tehsil-Maihar, Dist. - Satna, M.P. Pin- 485773 pk.choudhary@birlacorp.com Date of appointment – 28.08.2022
	Name of address of the Manager with Phone, email, fax number and Date of appointment	Shri Deepak Gupta Bandhi Ghorwai Limestone Mine P.O- Ajwain, Tehsil- Maihar, Dist- Satna (M.P.), deepak.gupta@birlacorp.com Date of Appointment- 27.12.2016
	Mining Engineer Name Qualification Date of Appointment	Shri Deepak Gupta, BE Mining, FCC(R), Date of Appointment- 27.12.2016
	Geologist Name Qualification, Date of Appointment	Shri K.K. Rathore, M.Sc. (Geology), Date of Appointment- 01.04.2024
6	Date of approval of Mining Plan/Review of Mining Plan etc.	Review of Mining Plan approved vide letter no. MP/Satna/Limestone/RMP-59/2021-22 Jabalpur dated 01/02/2022

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	2022-23: 6 Bhs	In 2021-22, 30 Nos of boreholes have been drilled	Nil
1b	Exploration over lease area for Geological axis 1 or 2.	2023-24: 6 Bhs		Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not Proposed	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not Proposed	Entire lease area has been explored under G1 level of exploration	Nil
1e	Balance reserves as on 01.04.2024	At the beginning of the year 01.04.2023, reserve was 15,058,073.0 tones	Depletion of reserve during the year 2023-24 was 4,782.0 tones. Balance reserve as on 31.03.2024 was 15,053,291.0 tones	Data as per annual return for 2023-24
1f	Brief of Geology of lease area & Exploration etc.	Entire lease area has been explored under G1 level of exploration.		

Development

S.No	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	E472840 to E472739, N2665252 to N2665300	E472767 to E472825 N2665295 to N2665324	Nil

2b	Separate benches in topsoil overburden and mineral	Separate benches in overburden and mineral proposed	Separate benches in overburden and mineral maintained	Nil
2c	Stripping ratio or ore to OB ratio	1:0.09 (t/m3)	Nil	The compliance has been reviewed in the Modification of Mining plan approved dated 23/09/2024 for the proposal period 2024-25 to 2026-27
2d	Quantity of topsoil generation in m3	400 cum	Nil	
2e	Quantity of overburden generation in m3	4200 cum	Nil	
2f	Brief of development of pit w.r.t. type of deposit etc.	Development was less than proposed. The compliance has been reviewed in the Modification of Mining plan approved dated 23/09/2024 for the proposal period 2024-25 to 2026-27.		

Exploitation

S.No	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One No	One No	Nil
3b	Quantity of ROM mineral production proposed (2023-24)	50,625 tones	4781.77 tones	The compliance has been reviewed in the Modification of Mining Plan approved dated 23/09/2024 for the proposal period 2024-25 to 2026-27
3c	Recovery of Salable/usable mineral from ROM production	50000 tones	Nil	-do-
3d	Quantity of mineral reject generation	625 tones	Nil	-do-
3e	Grade of mineral reject generation and threshold value declared	Min 34% >CaO < 43.5 % CaO	Nil	-do-
3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	Nil
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	Nil
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	Nil
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	Nil
3k	Provision of mining machineries in mineral benches	Yes	Yes	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Nil

3m	Total area covered under excavation /pits	1.795 Ha		2.48 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year	1:0.09		1:0.0	Nil
3o	Total area put in use under different heads at the end of year	4.142 Ha		5.13 Ha	FA has been submitted for 5.80 Ha in the Modification of Mining Plan approved dated 23/09/2024
3p	Production of ROM mineral during last five-years period, as Applicable	2022-23	50,625 tonne	15068.850 tones	Nil
		2023-24	50,625 tonne	4781.77 tones	
3q	Brief details w.r.t. method of mining etc.	The mine is being operated by adopting mechanized method of mining. All operations of mining done by deployment of HEMM for deep hole drilling, excavation, loading and transport.			

Solid Waste Management-Dumping

S.No	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Separate dumping of OB proposed	OB generation was Nil	Nil
4b	Location of topsoil, OB & mineral reject dumps	Separate dumping of OB proposed	OB generation was Nil	Nil
4c	Number of Dumps within lease area and outside lease area	Within lease area: One Dump	Within lease area: One Dump	Nil
4d	Location of Dumps w.r.t. ultimate pit limit	Outside UPL	Outside UPL	Nil
4e	Number of Active & Alive dumps	One dump	One dump	Nil
4f	Number of dead dumps	Not Proposed	Nil	Nil
4g	Number of dumps established	Not Proposed	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Nil
4i	Length of Retaining wall or garland drain all along dump	Proposed	Maintained	Nil
4j	Number of settling ponds	Not Proposed	Nil	Nil
4k	Brief details regarding waste dump management	There is one dump within lease area		

Solid Waste Management-Backfilling

S.No	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	Nil	Nil
5b	Area under backfilling of mined out area	Not Proposed	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Utilization Proposed	Top soil generation was Nil	Nil
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	Nil
5e	Brief details regarding backfilling and reclamation etc.	There was no proposal for backfilling.		

Progressive Mine Closer Plan

S.No	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	The holder of mining lease shall submit to the competent authority a report as per the format specified by the Indian Bureau of Mines, before 1 st day of July report every year	PMCP report has been submitted timely	Nil
6b	Area available for rehabilitation (Ha)	Not Proposed	Nil	Nil
6c	Afforestation done (ha)	0.10	0.30	Nil
6d	No. of saplings planted during the year	200 Nos	250 Nos	Nil
6e	Cumulative no. of plants	Not Proposed	4075 Nos	Nil
6f	Any other specific method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch & care during the year	Rs 10,400 /-	Rs 13,000 /-	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Not Proposed	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Not Proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Not Proposed	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not Proposed	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not Proposed	Nil	Nil
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	0.10	0.30	Nil
6n	Compliance of Rehabilitation of waste land within lease (ha) Method of rehabilitation	By Plantation	By Plantation	Nil
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	Nil

6p	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP report has been submitted timely.		

Mineral Conservation

S.No	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Mineral Dispatch	ROM Mineral Dispatch	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not Proposed	Nil	Nil
7c	Different grade of mineral sort out at mine	Not Proposed	Nil	Nil
7d	Any beneficiation process at mines	Not proposed	Nil	Nil
7e	Brief details about Mineral conservation and beneficiation issues	ROM Mineral Dispatch in practice		

Environment

S.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil	Proposed	No top soil generated	The compliance has been reviewed in the Modification of Mining Plan approved dated 23/09/2024 for the proposal period 2024-25 to 2026-27
8b	Concurrent use or storage of topsoil	Proposed	No top soil generated	
8c	Separate dumps for overburden waste rock, rejects and fines	OB is proposed to be dumped in waste dump	No generation of OB	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done	200 Nos of saplings	250 Nos of saplings	Nil
8g	Survival rate	90%	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried Out	Nil
8i	Details regarding aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is maintained.		

Compliance of Rule 45

S.No	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual return for 2023-24 has been submitted timely	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been Appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings: 2.48 Ha, Occupied by plant, buildings, residential, welfare buildings and roads: 0.7 Ha etc	Nil
9d	Scrutiny of Annual return on afforestation	250 nos of saplings planted within lease area	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing stock of ROM is Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of Production is Rs 314.56 per tonne	Nil
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets Rs 39600580	Nil
9k	Scrutiny of Annual return on mining Machineries	Backhoe :1 No, Blast hole Drill: 1 No, Tipper: 3 No etc.	Nil

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on
NIL			

Date:

(SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines