

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

Mine code: 38MPR35317

(i)	Name of Inspecting officer	:	Shri Sudip Ranjan Mazumdar
(ii)	Designation	:	Regional Mining Geologist
(iii)	Accompanying mine official with Designation	:	Shri Akhilesh J. Singh, VP (Mines) Shri Bharat Sahasrabudhe, AVP (Geology) Shri Nitya Kishor Dixit, DGM (Geology) Shri Sudhakar Kumar, Mines Manager
(iv)	Date of Inspection	:	06.10.2024

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	:	Sadhera Limestone mine
	(b)	Registration Number	:	IBM/15031/2013
	(c)	Category	:	A, Fully Mechanized
	(d)	Type of Working	:	Opencast
	(e)	Postal address	:	
		State	:	M.P.
		District	:	Maihar
		Village	:	Sadhera
		Taluka	:	Maihar
		Post Office	:	Ajwain
		Pin code	:	485772
		Fax	:	+9133 22884426
		email	:	maihar.mines@birlacorp.com
		Phone No	:	033 6603 3300- 02
	(f)	Police Station	:	Badera
	(g)	First Opening date	:	11.04.2013
	(h)	Weekly day of rest	:	Sunday
2	Address for Correspondence		:	
3	(a)	Lease Area	:	363.44 Ha
	(b)	Period of lease	:	30 years
	(c)	Date of Expiry	:	16.06.2040
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 (5th Floor), Kolkata, Pin- 700071 Phone- 033 6603 3300- 02 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 Sudhakar Kumar Sadhera Limestone Mine P.O.-Ajwain, Tehsil; Maihar , Distt. Satna(M.P)-485772 9340110501 sudhakar.kumar@birlacorp.com Date of appointment – 05.06.2017
	Mining Engineer Name Qualification Date of Appointment	:	Shri Sudhakar Kumar B. E. (Mining) Date of appointment – 01.08.2019
	Geologist Name Qualification, Date of Appointment	:	Shri Bharat Sahasrabudhe M.Sc. (Applied Geology) Date of appointment – 24.01.2013
6	Date of approval of Mining Plan/Review of Mining Plan etc.	:	28.07.2023- Approval date of last Approved Modified Mining Plan (Plan period 2023-24 to 2024-25 with validity upto 31.03.2025)

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration:

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	2022-23: 10 Bhs	2022-23: 09 Bhs have been drilled	Nil
1b	Exploration over lease area for Geological axis 1 or 2	In 2023-24, Not Proposed	2023-24: 08 Bhs have been drilled	Nil
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not Specified	In house exploration done by our own drill machine. Expenditure incurred: Rs 596050	Nil
1d	Balance area to be explored to bring the Geological axis in 1 or 2.	In 2023-24, Not Proposed	Entire mining lease area has been explored under G1 level of exploration.	Nil
1e	Balance reserves as on 01.04.2024	Reserves as on 1.04.2023, was 88,129,796.00 tones	Depletion during the year 2023-24 was 4,742,514.0 tones. Balance reserve as on 31.03.24 was 83,387,282.0 tones	Nil
1f	General remarks of Inspecting officer on geology, exploration etc.	The entire mining lease area has been explored under G1 level of exploration.		

Development (2023-24)

S.No	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development proposed in Pit 1 & Pit 2	Development carried out in Pit 1 & Pit 2	Nil
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil overburden and mineral is proposed	Separate benches in topsoil overburden and mineral is maintained	Nil

2c	Stripping ratio or ore to OB ratio	1:0.0654	1:0.18	Nil
2d	Quantity of topsoil generation in m3	15975 cum	28370 cum	Nil
2e	Quantity of overburden generation in m3	222448 cum	832855.10 cum	Nil
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development carried out in Pit 1& Pit 2 as proposed		

Exploitation FY (2023-24)

S. No	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	02 Nos.	02 Nos.	Nil
3b	Quantity of ROM mineral production proposed	5000000 tones	4742514.22 tones	Nil
3c	Recovery of Salable/usable minerals from ROM production	100 %	100 %	Nil
3d	Quantity of mineral reject generation	Not Proposed	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Nil	Nil
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, controlled deep hole drilling & blasting has been carried out in mineral benches	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 (Ha.)	108.50	120.170 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year	1:0.0654	1:0.18	Nil
3o	Total area put in use under different heads at the end of year	146.849 Ha	165.66 Ha	FA has been submitted for 228.63 Ha in the RMP approved dated 09/12/2024

3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	3500000 MT	3406286.56 MT	Nil
		2020-21	5000000 MT	3494282.82 MT	
		2021-22	5000000 MT	3496472.35 MT	
		2022-23	5000000 MT	3498924.69 MT	
		2023-24	5000000 MT	4742514.22 MT	
3q	General remarks of inspecting officer on method of mining etc.	Open cast mining operation carried out by deployment of HEMM for deep hole drilling, excavation etc.			

Solid Waste Management-Dumping (2023-24)

S.No	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate Topsoil dump and waste dumps are proposed	Separate Topsoil dump and OB waste dumps are being made as per proposal.	Nil
4b	Location of topsoil, OB & mineral reject dumps	Top Soil Dump 24° 7'56.86"N- 24° 8'2.09"N 80°45'10.44"E- 80°45'14.10"E OB Dump N-2667154 E-474531 to N- 2667360 E- 474611 Back filling 24° 7'14.57"N- 24° 7'23.17"N 80°44'54.87"E- 80°45'4.61"E	Top Soil Dump 24° 7'55.64"N- 24° 8'1.53"N 80°45'11.88"E- 80°45'14.00"E OB Dump N-2667180 E-474190 to N-2667374 E-474462 Back Filling 24° 7'16.65"N- 24° 7'25.94"N 80°44'54.88"E- 80°45'4.39"E	Nil
4c	Number of Dumps within lease area and outside lease area	All 05 no. of dumps are proposed within Lease area.	05 dumps (Within Lease) No dump outside lease area.	Nil
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of Active & Alive dumps	05 Nos	05 Nos	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	Retaining wall-250 m Garland drain- 550 m	Retaining wall- 250 m Garland drain- 550 m	Nil
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Waste management done as proposed.		

Solid Waste Management-Backfilling (2023-24)

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	Full extraction of mineral	Nil
5b	Area under backfilling of mined out area	2.5 Ha	2.5 Ha	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Top soil stack has been proposed and has been used for restoration or	Top soil stacked separately at earmarked locations for restoration	Nil

		rehabilitation of mined out area.	and also simultaneously used for backfilling purpose of mined out areas.	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not Proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Backfilling done as proposed.		

Progressive Mine Closure Plan (2023-24)

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 a mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1 st day of July report every year.	The annual return on PMCP has been submitted timely.	Nil
6b	Area available for rehabilitation (Ha)	Not Proposed	Nil	Nil
6c	Afforestation done (ha)	2.0 Ha	10.16 Ha	Nil
6d	No. of saplings planted during the year	3000 Nos	18065 Nos	Nil
6e	Cumulative no. of plants	Not Proposed	54884 Nos	Nil
6f	Any other specific method of rehabilitation	Not Proposed	Nil	Nil
6g	Cost incurred on watch & care during the year	Rs 600000	Rs 2709750	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Proposed	Carried Out	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Void filled by waste material	Void filled by waste material	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	2.0 Ha	10.16 Ha	Nil
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	2.0 Ha	10.16 Ha	2.0 Ha
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)	Proposed	Carried out	Nil
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP report has been submitted timely.		

Mineral Conservation (2023-24)

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	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM Mineral dispatch is in practice		

Environment (2023-24)

S.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Top soil has been separately stacked at earmarked locations and will be used over backfilled area for plantation.	Top soil removed separately & stacked at earmarked locations for restoration and also simultaneously used for backfilling purpose of mined out areas.	Nil
8b	Concurrent use or storage of topsoil	Concurrent use and storage proposed	Concurrent use and storage carried out	Nil
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumps have been proposed for overburden waste rock.	Separate dumps for OB waste are being made as per proposal.	Nil
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Proposed	Carried Out	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Carried Out	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not Specified	18065 saplings planted	Nil
8g	Survival rate	Not Proposed	90%	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	Carried Out	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is maintained.		

Compliance of Rule 45 (2023-24)

S.No	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Annual Return for 2023-24 have been submitted timely	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager have been employed in the mines.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 120.17 Ha, Used for waste disposal: 22.13 ha; Occupied by plant, buildings, residential, welfare buildings and roads: 14.66 Ha etc.	Nil
9d	Scrutiny of Annual return on afforestation	18065 saplings planted	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 229.74 per tonne	Nil
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets is Rs 1286120851	Nil

9k	Scrutiny of Annual return on mining Machineries	Shovel (Hydraulic)- 2no; Dumper: 8 no, Blast hole drill: 2no etc.	Nil
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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