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

Mine code: 38MPR35355

(i)	Name of Inspecting officer	Shri Madhavrao Sabre
(ii)	Designation	Senior Mining Geologist
		Shri Akhilesh Singh, VP (Mines)
/:::\	Accompanying mine official with Designation	Shri Nitya Dixit, DGM (Geology)
(iii)		Shri Sushanta Saha, Manager (Geology)
		Shri Vinod Gayakwad, Mines Manager
(iv)	Date of Inspection	29.07.2024
(v)	Previous Inspection date	01.12.2022

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	Bigodi Limestone mine
	(b)	Registration Number	IBM/15031/2013
	(c)	Category	Fully Mechanized
	(d)	Type of Working	Opencast
	(e) Postal address		
		State	M.P.
		District	Satna
		Village	Sannehi Singti, Dithora & Karondi
		Taluka	Amarpatan
		Post Office	Bigodi
		Pin code	485778
		Fax	+9133 22884426
		email	maihar.mines@birlacorp.com
		Phone No	033 6603 3300- 02
	(f)	Police Station	Amarpatan
	(g)	First Opening date	10/11/2022
	(h)	Weekly day of rest	Sunday
2	Addre	ss for Correspondence	
3	(a)	Lease Area	184.149 Ha
	(b)	Period of lease	50 years (27.11.2020 to 26.11.2070)
	(c)	Date of Expiry	26.11.2070
4	Miner	al Worked (Main)	Limestone
5	Name with numb	of address of the Lessee Phone, email and fax er	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
		of address of the r/Nominated Owner with e, email, fax number and	Shri Sandip Ghose, Birla Corporation Limited 1, Shakespeare Sarani, A.C. Market, 2nd Floor Kolkata, West Bengal, 700071 Phone- 03366033379

	Date of appointment	sandip.ghose@birlacorp.com
		Date of appointment- 02.02.2023
		Shri Prahlad Kumar Choudhary
	Name of address of the Asset	RCCPL Pvt. Ltd.
	Name of address of the Agent	Village Bharauli, Post – Itahara
	with Phone, email, fax number	Tehsil-Maihar, Dist Satna, M.P.
	and Date of appointment	Pin- 485773
		pk.choudhary@birlacorp.com
		Date of appointment – 28.08.2022
		Shri Vinod Kr. Gayakwad
	Name of address of the	Bigodi Limestone Mine
	Manager with Phone, email, fax	P.O- Bigodi, Tehsil- Amarpatan,
	number and Date of	Dist- Satna (M.P.),
	appointment	Phone- 9329141081
		vinod.gayakwad@birlacorp.com
		Date of Appointment- 01.07.2023
	Naining Engineer	Mining Engineer:
	Mining Engineer Name	Shri Vinod Kr. Gayakwad, BTech Mining, FCC(R), Experience-15 years,
	Qualification	Date of Appointment- 01.07.2023
	Date of Appointment	Phone- 9329141081
	Bute of Appointment	Email- vinod.gayakwad@birlacorp.com
		Geologist:
		Sushanta Saha, M.Sc Geology,
	Geologist Name	Experience- 15 years,
	Qualification,	Date of Appointment-01.06.2024
	Date of Appointment	Phone- 8815103739
		Email- sushanta.saha@birlacorp.com
	Date of approval of Mining	F 3540 MCCD MDCCLCT/44/2022 IDD IDM DO IDD A 4 4 1 122 22 222
6	Plan/Review of Mining Plan etc.	E 2510 MCDR-MPC0LST/11/2022-JBP-IBM_RO_JBP on dated 22.03.2023

PART- II: OBSERVATION/COMMENTS OF INSPECTING OFFICERS

1. Exploration (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	0	0	
1b	Exploration over lease area for Geological axis 1 or 2.	G-1	G-1	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	, ,	eotech Pvt. Ltd 23-24- Rs 30,52,293	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	G1- 163.979 Ha Non-mineralized area- 20.170 Ha	Total lease area 184.149 Ha converted into G1 axis	
1e	Balance reserves as on 01.04.2024	-	111-32349560 tone 211-15390000 tonne	
1f	Brief of Geology of lease area & Exploration etc.	Formation of the include Limestone	Bhander Group. In	g to Nagod Limestone this deposit, the rocks Magnesian Limestone as Iling 71 boreholes.

2. Development (2023-24)

S.N.	ltem	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	E529205 to	E518264 to	Pit not developed in
		E529475	E518304	the proposed area for
		N2698621 to	N2698683 to	which Violation
		N2698890	N2698749	issued.
		E531149 to		
		E531327		
		N2699314 to		
		N2699414		
2b	Separate benches in topsoil overburden	Top Soil Bench- 2	OB bench- 1	Violation issued for
	and mineral	OB Bench- 3	Mineral Bench- 1	deviation.
		Mineral Bench- 1		
2c	Stripping ratio or ore to OB ratio	1: 0.7239	1: 40.16	Violation issued for
				deviation.
24	Overtity of teneral constitution in ma ³	2.02.046	NI:I	Minlatian insued for
2d	Quantity of topsoil generation in m ³	3,82,916	Nil	Violation issued for
				deviation.
2e	Quantity of overburden generation in m ³	150384	5620	Violation issued for
				deviation.
2f	Brief of development of pit w.r.t. type	Pit not developed a	nt proposed location.	Benches not developed
	of deposit etc		•	oduced as per proposal .
		For these deviation	s Violation letter issu	ied.

3. Exploitation (2023-24)

S.N.	ltem	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	2	1	
3b	Quantity of ROM mineral production	158920 tonne	139.93 tonne	Violation letter
	proposed (2023-24)			issued for deviation
3c	Recovery of Salable/usable mineral from	Nil	Nil	-
	ROM production			
3d	Quantity of mineral reject generation	0.00	0.00	-
3e	Grade of mineral reject generation and	Min 34% CaO and	Min 34% CaO and	-
	threshold value declared	Max 5% MgO	Max 5% MgO	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	No sub grade
				generated
3h	Manual/Mechanized method adopted for	Mechanized	Mechanized	-
	segregation from ROM			
3i	Any analysis or beneficiation study	NA	NA	-
	proposed & carried out for sub-grade			
	mineral and reject			
3j	Provision of drilling & blasting in mineral	Yes	Yes	
	benches			
3k	Provision of mining machineries in mineral	Yes	Yes	-
	benches			
31	Whether height of benches in overburden	Yes	Yes as per	-
	and mineral suitable for method of mining		proposal in RMP	
	proposed in MP/SOM			
3m	Total area covered under excavation /pits	4.26 Ha	0.50 Ha	

3n	Ore to OB ratio for the pit/mine during the	1: 0.	72	1: 40.16	
	year				
30	Total area put in use under different heads	21.53	На	3.45 Ha	
	at the end of year				
3р	Production of ROM mineral during last	2019-20	0.00	2019-20	0.00 tonne
	five-years period, as Applicable				
		2020-21	0.00	2020-21	0.00 tonne
		2021-22	0.00	2021-22	0.00 tonne
		2022-23	5100	2022-23	300 tonne
			tonne		
		2023-24	158920	2023-24	139.93 tonne
			tonne		
3q	Brief details w.r.t. method of mining etc.	The mine is	being ope	rated by adopting me	echanized method of
		mining. All	operations	of mining will be do	ne by deployment of
		HEMM for o	leep hole c	drilling and excavation	٦.

4. Solid Waste Management-Dumping (2023-24)

S.N.	ltem	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Top Soil- NIL OB Dump- NIL Mineral reject- NIL	No dump, as no proposals are given in this MMP	
4b	Location of topsoil, OB & mineral reject dumps	yes	Yes	Top soil will be utilized during Plantation.
4c	Number of Dumps within lease area and outside lease area	Nil	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit	Nil	Nil	
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of deed dumps	Nil	Nil	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall- 460m Garland drain- 460m	Yes	
4j	Number of settling ponds	Nil	Nil	
4k	Brief details regarding waste dump management	The overburden loader with dump		oved by excavator / Pay

5. Solid Waste Management-Backfilling (2023-24)

S.N.	ltem	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral	Not in	Nil	
	from mined out area before starting	Proposal		
	backfilling			
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or	No proposal	Nil	
	rehabilitation of mined out area	for		
		rehabilitation		
		of mined out		
		area		

5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
	Brief details regarding backfilling and	No Backfilling Proposals are given as per MMP		
	reclamation etc.			

6. Progressive Mine Closer Plan (2023-24)

S.N.	ltem	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(2). Details should be given in the format as given in Annexure.	Yes	Annual report of PMCP had been already submitted on 22.06.2024 as per Rule 26(2) of MCDR in prescribed format	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Nil	Nil	
	ii) Afforestation done (ha)	0.50	0.10	
	iii) No. of saplings planted during the year	1000	250	Violation issued for deviation.
	iv) Cumulative no. of plants	Cumulative 100 on 31.03.2024	0 nos. of sapling are planted as	-
	v) Any other specific method of rehabilitation	NA	NA	-
	vi) Cost incurred on watch & care during the year	Rs 200000	Rs 50000	-
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D)	Nil	Nil	-
	ii) Void filled by waste/tailings	Nil	Nil	-
	iii) Afforestation on the backfilling	Nil	Nil	-
	iv) Rehabilitation by making water reservoir	Nil	Nil	-
	v) Any other specific means	Nil	Nil	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation	0.50 Ha (1000 no of saplings)	0.20 Ha (500 no of saplings)	-
	ii) Area rehabilitation	Not in Proposal	NIL	-
	iii) Method of rehabilitation	Not in Proposal	NIL	-
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Complied of Environment monitoring	

6f	Brief details of PMCP compliance and	Complete extraction of mineral is yet to be achieved so	
	progressive closure operations etc.	backfilling not applicable. PMCP report has been already	
		submitted on 22.06.2024	

7. Mineral Conservation (2023-24)

S.N.	Item	Proposals	Actual	Remarks
			Work	
7a	ROM mineral dispatch or grade wise sorting within lease	ROM	ROM	-
	area	Mineral	Mineral	
		dispatch	dispatch	
7b	Method of grade-wise mineral sorting	mechanical	mechanical	
	i.e. manual or mechanical			
7c	Different grade of mineral sort out at mine	None	None	
7d	Any beneficiation process at mines	Not	NA	
		proposed		
7e	Brief details about Mineral conservation and beneficiation	ROM mineral is dispatched from the Mine.		
	issues	Threshold value of limestone is Min 34% CaO		
		and Max 5% MgO. But we use upto 6 % MgO		
		for mineral conservation purpose.		

8. Environment (2023-24)

S.N.	Item	Proposals	Actual Work	Remarks	
8a	Separate removal and utilization of topsoil	Generation- 382916.00 Cum Utilization- 5000 Cum	Generation- 2000 Cum Utilization- Nil		
8b	Concurrent use or storage of topsoil	Storage of Top soil- 377916 Cum	Yes	Top soil utilized in Plantation area (Lat-24.406341° & Long- 81.182632°) and along bund for safety measures.	
8c	Separate dumps for overburden waste rock, rejects and fines	Not in proposal as per MMP.	NA		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not in Proposal	NA		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not in Proposal	NA		
8f	Baseline information on existence of plantation & additional plantation done	Yes	Total 1000 no. of saplings are planted covering an area of 0.35 Ha as on 31 st March, 2024.		
8g	Survival rate	80%	80%		
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkler has been utilized on roads to control dust suppression.		
8i	Details regarding aesthetic beauty in	This is a new lease , production started from 2022-2023 onwards.			
	and around mines area	So work pertaining to aesthetic beauty yet to start. 1000 saplings			

are planted in the lease area.

9. Compliance of Rule 45 (2023-24)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly return- FY 2023-24 April-23 – 06.05.2023 May -23 – 07.06.2023 June-23 – 08.07.2023 July-23 – 08.08.2023 August-23 – 05.09.2023 September-23 – 06.10.2023 October-23 – 08.11.2023 November-23 – 08.12.2023 December-23 – 08.01.2024 January-24 – 08.02.2024 February-24 – 07.03.2024 March-24 – 08.04.2024 Annual Return- FY 2023-24 submitted on 22.06.2024	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Already Appointed. Notice of Appointment (Form-H) had been sent to IBM, Jabalpur	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under OC mining- 0.5 Ha Used for waste disposal- 0.5 Ha Occupied by roads, infrastructure- 1.19 Ha Garland drain & Bund- 1.26 Ha	Nil
9d	Scrutiny of Annual return on afforestation	Nil	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	Opening Stock at Mine: 51.200T Production Done: 139.930 T Dispatch Done: 175.960 T Presently in Stock: 15.170T	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine price- Rs 199.42/-	Nil
9i	Scrutiny of Annual return on Fixed assets	Rs 130299263/-	Nil
9k	Scrutiny of Annual return on mining Machineries	1 no. Back hoe- 1.2 Cum (Cap) 3 nos Tipper- 14.00 Cum	Nil

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

Violations issued under Rule 11(1) of MCDR 2017:

1. Only 139.93 tonnes of Limestone production is raised during 2023-24 against the proposed 1,58,920 tonnes.

- 2. Pit was developed in 7.5 m barrier and also outside the lease.
- **3**. Pit was not developed in proposal area for year 2023-24.
- 4. 5620 m3 Overburden is generated against the proposal of 1,50,384 m3, thereby distorting the stripping ratio.
- **5**. Overburden was dumped in 7.5 m barrier and also outside the lease.
- **6.** Overburden was not dumped at proposed location.
- 7. It was proposed to produce 3,82,916 m3 of top soil during the year, but nil top soil was produced.
- **8**. It was proposed to develop 2 benches in Top Soil, 03 in Overburden and 02 in Mineral during the year 2023-24, but only 01 bench in overburden and mineral were developed.
- 9 It was proposed that Stripping ratio of 1:0.72 will be maintained but in actual it was coming to be 1:40.16.
- 10. It was proposed to plant 1000 saplings during the year but only 250 saplings were planted.

Name: Madhavrao Sabre Senior Mining Geologist IBM, Jabalpur Region