

MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Shri Madhavrao Sabre
2	Designation	Senior Mining Geologist
3	Accompanying mine official with Designation	Shri Rajesh Chaubey (HOD Mines), Shri Gaurav Tripathi (Geologist) and Kumar Ranjan (Mining Engineer)
4	Date of Inspection	23.12.2024
5	Previous Inspection date	17.08.2023

Part-I: General

S.No	Particulars	Details
1	Name of the Mine	Sagmania Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	852.50 Ha. Forest: Nil Non-forest: 852.50 Ha.
3	Mine code	38MPR35071
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/4349/2011
5	Name of the lessee, Address, Phone, email and fax number	Birla Corporation Limited Address: P.O. Birla Vikas, Dist. Satna-485005 07672-276216 Email: kumar.rajana@birlacorp.com
6	Village	Sagmania
7	Taluka/Mandal	Raghurajnagar
8	District	Satna
9	Pin code	485114
10	State	Madhya Pradesh
11	Post Office	Sagmania
12	Nearest Police Station	Kolgawan
13	Nearest Railway Station	Satna
14	Date of opening of Mine	1959
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Sandip Ghose 1, Shakespeare Sarani, Kolkata Email: sandip.ghose@birlacorp.com Date of appointment: 01.01.2023
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Rajesh Chaubey Add. Birla Colony, Satna -485005 Mob-9998967315 rajesh.chaubey@birlacorp.com Appointment-16.01.2020
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Kumar Rajan Add. Birla Colony, Satna -485005 Mob-7611105034 Kumar.rajana@birlacorp.com Appointment-01.02.2020
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. Kumar Rajan Add. Birla Colony, Satna -485005 Mob-7611105034 Kumar.rajana@birlacorp.com Appointment-02.05.2020
19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes Appointed Mr. Gaurav Tripathi, Geologist Date of Appointment-21.07.2022
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Mining Plan under Rule 17(2) of MCR,2016 & 23 of MCDR, 2017 approved vide letter No MP/SATNA/LIMESTONE/RMP-22/2020-21 Date: 24.12.2020

21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
22	Mineral(s) granted in lease and approved for Mining	Limestone
23	Method of Mining (Opencast, Underground)	Opencast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
25	Captive/Non-Captive	Captive

Part-II Details about Mining Plan/ Review of Mining Plan etc.

a) Letter No. and date of approval of mining plan	:	-
b) Letter No. and date of approval of review of mining plan	:	LetterNo.MP/SATNA/LIMESTONE/RMP-22/2020-21 Date: 24.12.2020
c) Condition while approving the MP/ RMP/ modification	:	-
d) Period of mining plan/ mining scheme in force:	:	2021-22 to 2025-26

PART III-MCDR Report details.

1. **Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year (before 2023-24)	50 nos	108 Nos. BH drilled	Completed
1b	Exploration over lease area for Geological axis 1 or 2 (for 2023-24)	NA	G1 level	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2023-24)	NA	Jaiswal Enterprises Expenditure: 101 lacs	
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2023-24)	-	-	
1e	Balance reserves as on 01.04.2024	-	Reserves: 93.75	
1f	General remarks of Inspecting officer on geology, exploration etc.	The rocks exposed in the Lease area, under consideration, apparently belong to the Upper Vindhyan. The rocks in the area trend N80E-S80 (E-W) with low 2 to 4 southerly dip. The drilled litho sequence has been measured through drilled core bore holes. The outcome of exploration proved that the nodular limestone mineralized area is capped or overlain by coralline limestone and underlain by sandstone. In general the lease area belongs to Nagod Limestone of Upper Vindhyan of Vindhyan Super Group. The second band limestone has been encountered during the exploration in year 2018-19. The second band limestone exploration done in 27 nos. of bore hole in A-Quarry Pit in first phase of drilling for second band and 66 nos. of boreholes in the second phase in year 2022-23 out of proposed 174 nos. of boreholes to check the extent of mineralization upto the depth of 70-80m. Lease is explored in G1 category.		

2. Development (FY 2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	A-quarry, BJ Block south, North, D-Cutting & N-1 Block	A-quarry, BJ Block south, D-Cutting & N-1 Block	
2b	Separate benches in topsoil overburden and mineral	Separate benches in Top soil, HOB & mineral	Yes, maintained as per the proposals	

	(Rule 15)	proposed		
2c	Stripping ratio or ore to OB ratio	1: 0.77	1: 0.048	
2d	Quantity of topsoil generation in m3	145095	51386	Violation issued
2e	Quantity of overburden generation in m3	1246262	168059	Violation issued
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is done on proposed area. But development was lagging so violation letter issued.		

3. Exploitation FY 2023-24

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	04	04	
3b	Quantity of ROM mineral production proposed	4510000 tons	2768358 tons	Violation issued
3c	Recovery of Salable/usable minerals from ROM production	100% recovery of usable mineral from ROM	100% recovery of usable mineral from ROM	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual/Mechanized method adopted for segregation from ROM	NA	NA	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation /pits (Ha.)	392.06	397.08	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.77	1: 0.048	
3o	Total area put in use under different heads at the end of year	427.09	430.08	
3p	Production of ROM mineral during last five-years period, as Applicable	Yr-2023-24: 4510000 Yr-2022-23: 4505000 Yr-2021-22: 4500000 Yr-2020-21: 4500000 Yr-2019-20 - 3600000	Yr-2023-24: 2768358 Yr-2022-23 :2899769 Yr-2021-22: 2995675 Yr-2020-21: 2995675 Yr-2019-20 - 3500985	
3q	General remarks of	Proposed Production was not achieved, so violation issued.		

	inspecting officer on method of mining etc.	
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4. Solid Waste Management-Dumping (FY2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	Temporary stacking	Utilized in coating over backfilled area	
4c	Number of Dumps within lease area and outside lease area	05	05	Within ML
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Dump1: N2724741 to N2724990 & E488134 to E488307 Dump2: N2724001 to N2724166 & E488199 to E488261 Dump3: N2722898 to N2723105 & E488849 to E489046 Dump4: N2722865 to N2722925 & E489017 to E489182 Dump5: N2724264 to N2724373 & E491249 to E491342	-	In Present Mining plan no Dumps are within ML
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of dead dumps	5	5	
4g	Number of dumps established	5	5	
4h	Whether Retaining wall or garland drain all along dumps are there	No	Yes, constructed	
4i	Length of Retaining wall or garland drain all along dump	Nil	Yes, constructed	
4j	Number of settling ponds	Nil		
4k	Specific comments of inspecting officer on waste dump management	Stacking done on proposed locations, In RY no dumps were proposed.		

5. Solid Waste Management-Backfilling (FY 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	Yes	Yes	
5b	Area under backfilling of mined out area	2.4 Ha.	1.14 Ha.	Violation issued.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Yes	
5d	Total area fully reclaimed & rehabilitated (Ha)	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Backfilling is not achieved as per proposed so violation issued.		

6. Progressive Mine Closure Plan (FY 2023-24)

S.N.	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	Yes	Yes	
6b	Area available for rehabilitation (Ha)	Nil	Nil	
6c	Afforestation done (ha)	1.0	3.0 (Gap plantation-6.0 Ha.)	
6d	No. of saplings planted during the year	800	18700	
6e	Cumulative no. of plants	-	296050	
6f	Any other specific method of rehabilitation	NA	NA	
6g	Cost incurred on watch & care during the year (Rs.)	22500	2001875	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	2.4 Ha	Nil.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	2.4 Ha	1.14 Ha.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	-	3.0 (Gap plantation-6.0 Ha.)	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	-	-	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	-	-	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	-	3.0 Ha.	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	1.0 Ha.	-	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	-	-	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Provision of monitoring at different locations in mines	Monitoring done at different locations in mines	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation carried out within the lease area. During the year 18700 saplings planted. Aesthetic beauty and greenery maintained in the lease area.		

7. Mineral Conservation (FY 2023-24)

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sort out at mine	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral dispatch is done.		

8. Environment (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	145095 cu.m	51386 cu.m	Stacked temporarily. Concurrent use in plantation
8b	Concurrent use or storage of topsoil	Concurrent use	Concurrent use	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Yes	Yes	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Large number of trees survived in mining lease and outside the mining lease.		
8g	Survival rate	-	More than 70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes, water sprinkling is being done on haul roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Environmental parameters are regularly checked and are under prescribed limits.		

9. Compliance of Rule 45 (2023-24)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly and Annual Returns submitted in time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes, scrutiny done. Date of appointments of: Nominated Owner: 01.01.2023 Agent: 16.01.2020 Mines Manager: 01.02.2020 Geologist: 21.07.2022 Mining Engineer: 02.05.2020	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes, scrutiny done. Details of land use at the end of RY: Area exploited & abandoned: Nil Covered under current working: 397.08 Ha. Reclaimed-rehabilitated: 51.53 Ha. Used for waste disposal: 17.50 Ha. Occupied by plant, buildings etc.: 2.0 Ha. Work done under PMCP: 1.14 Ha.	
9d	Scrutiny of Annual return on afforestation	Yes, scrutiny done. Total plantation in FY'24: 18700 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Yes, scrutiny done Total OB in FY'24: 168059 cu.m	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Yes, scrutiny done Total ROM in FY'24: 2768358 tonnes Details of mineral dispatch: Opening stock: 125587 tonnes Production: 2768358 tonnes Dispatch: 2770137 tonnes Closing stock: 123808 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Yes, scrutiny done EMP: Rs. 341.12/-	
9i	Scrutiny of Annual return on Fixed assets	Yes, scrutiny done Depreciation on fixed assets: Rs. 436428053	
9k	Scrutiny of Annual return on mining Machineries	Yes, scrutiny done. Details of machinery: Dumper, front end loader, Dozer, Rock drill, Explosive Van, Crusher & Showel	

Details of violations observed during current inspection and compliance position of earlier violation pointed out					
Violation observed			Show cause Position		
Rule no.	Issued on	Compliance on	Rule no.	Issued on	Compliance on
11(1) of MCDR 2017	11.03.2025				