

MCDR INSPECTION REPORT 2023-24**General**

S. N.	Particulars	Details
1	Name of the Mine	Daldali Bauxite Mine
2	Date of Inspection:	30.08.2024
3	Name of Inspecting Officer	Sanjay Kumar Mahapatra, Assistant Controller of Mines
4	Name of official accompanying inspection	Mr. Rajendra Kumar Sharma, Agent Mines
5	Last date of Inspection & Officer	17.01.2023, Shri D Dash, RMG
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	38.211 Hect. (Non-Forest Land)
7	Mine code	07CHG09001
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5644/2011
9	Name of the lessee, Address, phone, email and fax number	Shri Kanti Lal Parakh, Proprietor of Mahavir Minerals, Address- 66, Yashashvi, Malviya Nagar, Durg Email – mahavirmineralsdurg@gmail.com
10	Village	Durg
11	Taluka/ Mandal	Durg
12	District	Durg
13	Pin code	491001
14	State	Chhattisgarh
15	Post office	Durg
16	Nearest police station	Durg
17	Nearest Railway station	Durg
18	Date of Grant of Mining Lease	04/12/2002
19	Date of Execution	30/12/2002
20	Date of opening of Mine	01/09/2003
21	Date of first Renewal, if applicable and its period & expiry	Not applicable.
22	Date of second Renewal, if applicable and its period & expiry	Not applicable.
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
24	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Kanti Lal Parakh (Proprietor & Owner) 66, Yashashvi, Malviya Nagar, Durg Email – mahavirmineralsdurg@gmail.com
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Rajendra Kumar Sharma, M/s Mahavir Minerals Post – Daldali, Tehsil – Bodla, Kawardha Mob. No.- 9630090750, Email- mahavirmineralsdurg@gmail.com Date of Appointment- 01.06.2021
26	Name of the Mines Manager with Address,	Mr. Chetan Lal,

	phone, email, fax number and date of appointment in mines	M/s Mahavir Minerals Village – Daldali, Tehsil – Bodla, Kawardha, Email- mahavirmineralsdurg@gmail.com Mob.- 8602072500 Date of appointment- 23.07.2024
27	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Chetan Lal, Qualification- BE (Mining) Experience – 6 years M/s Mahavir Minerals Post – Daldali, Tehsil – Bodla, Kawardha Mob.- 8602072500 Date of appointment- 23.07.2024
28	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Topchand Dewangan Qualification- M.Sc. (Geology) M/s Mahavir Minerals Post – Daldali, Tehsil – Bodla, Kawardha Mob. - 9617043722 Date of appointment- 07.07.2024
29	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes
30	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan - 14.10.2002
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan -06/04/2023 for five years period (2023-24 to 2027-28) approved on 06.04.2023
32	Mineral(s) granted in lease and proved for mining	Bauxite
33	Method of Mining(Open cast, Underground)	Open cast
34	Category (Fully Mechanised, Others or Manual)	Mechanized
35	Captive/Non Captive	Non-Captive
36	Environmental Clearance	Valid up to 29.12.2032 & 5,00,000T/ years
37	SPCB Approval	Valid up to 30.11.2027 & 5,00,000T/ years
38	Financial Assurance details	73.34 Lacs, Valid up to 31.03.2028
39	Status of Submission of Drone data/ Satellite Imagery	Satellite Imagery has been submitted for F.Y. 2023-24

Exploration

S.N	Item	Proposals for,2023-24	Actual work during2023-24	Remark
1a	Backlog of previous year	Nil	NA	
1b	Exploration over lease area for Geological axis 1 or 2.	Total no. of Trial Pitting 20	Done as per proposal	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	NA	
1d	Balance area to be explored to	Nil	NA	About

	bring Geological axis in 1 or 2			11.2380ha is to be explored in Proposal period 2024-25
1e	Balance reserves as per latest approved document	617307 Tonne as on date 01.04.2023	560652.00 Tonne as on date 31.03.2023	Mine out reserve during FY 2023-24, 56655 T
1f	General remarks of inspecting officer on geology, exploration etc.	Total remaining resources as on 31.03.2022 was 903599 tonne. Depleted during the year 56655 tonne. Balance resources as on 31.03.2023 846944 tonne. Exploration carried by drilling 42 bore holes.		

Development

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	Pit no. 1 & 5	Pit-1 & 5	Excavation observed to be carried out in the area near Boundary Pillar No 31/1 & 31/2 (Below the Power line) without such approval in the RMP. Violation of rule 11(1) issued on 05.09.2024.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Proposed	Separate benches in topsoil, overburden and mineral observed.	-do-
2c	Stripping ratio or ore to OB ratio	1:0.24	1:0.04	
2d	Quantity of topsoil generation in m ³	3725.08cum	0	
2e	Quantity of overburden generation in m ³	49300.83 cum	2400 cum (OB/mineral waste)	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	Less development than proposal achieved, Working observed to be carried out between Boundary Pillar No 20 & 21 and between Boundary Pillar No 31/1 & 31/2 within safety zone without such approval in the RMP. Violation of Rule 11(1) of MCDR issued on 05.09.2024.		

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	02 pits	02 Pits	Pit-1 & 5
3b	Quantity of ROM mineral production proposed	197604.25 T	56655 T	-Due to lack of demand
3c	Recovery of salable/usable mineral from ROM production	197604.25 T	42902 T	
3d	Quantity of mineral reject generation	Nil	Nil	Mineral reject production wrongly reported in Annual return. Thus violation of Rule 45(7) issued on 05.09.2024
3e	Grade of mineral reject generation and threshold value declared	Nil	Not applicable.	.
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	NA	
3j	Provision of drilling & blasting in mineral benches	Proposed	As per proposal	
3k	Provision of mining machineries in mineral benches	Proposed	As per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB bench-4.0m Ore bench- 6.0m	OB bench-0.5m Ore bench- 1-3m	Within the proposal.
3m	Total area covered under excavation/pits	9.35 ha	8.61ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.24	1:0.04	
3o	Total area put in use under different heads at the end of year	Pit -9.35ha Top Soil-0.16ha, OB/Waste-0.06ha, Min.Storage-	End of Year:- Pit -8.610ha Top Soil-0.16ha, OB/Waste-0.06ha, Min.Storage-	

		0.06ha, Road- 0.25ha, Magazine- 0.04ha	0.06ha, Road- 0.25ha, Magazine-0.04ha Reclaimed-0.71ha (0.21ha in 2023- 24)
3p	Production of ROM mineral during last six-year period, as applicable	2018-19: 333334T 2019-20: 300000T 2016-17 300000T 2017-18 2020-21: 166666T 2018-19 2021-22: 116666T 2020-21 23: 116666T 2021-22 2022-23 2023-24: 197604.25T	2018-19: Nil 2019-20: Nil 2020-21: 175mt 2021-22: 127 mt 2022-23: 1085 mt 2023-24: 56655 mt
3q	General remarks of inspecting officer on method of	High Silica Content 7 to 15% in Ore . However, less development than proposal achieved, Working observed to be carried out between Boundary Pillar No 20 & 21 and between Boundary Pillar No 31/1 & 31/2 within safety zone & Excavation observed to be carried out in the area near Boundary Pillar No 31/1 & 31/2 (Below the Power line) without such approval in the RMP without such approval in the RMP. Thus, Violation of Rule 11(1) of MCDR issued on 05.09.2024.	

Solid Waste management-Dumping

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Yes	OB/ waste dump	
4b	Location of topsoil, OB & mineral reject dumps	01	01 OB/ waste dump	
4c	Number of dumps within lease area and outside lease area	01	01 OB/ waste dump	All within lease area
4d	Location of dumps w.r.t. ultimate pit limit	Out side ultimate pit limit	Out side ultimate pit limit	
4e	Number of active & alive dumps	01	01	OB/waste dump -0.06 Ha
4f	Number of dead dumps	Nil	NA	
4g	Number of dumps stabilised	Nil	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	NA	
4i	Length of Retaining wall or garland drain all along dump	Nil	NA	
4j	Number of settling ponds	Nil	NA	
4k	Specific comments of inspecting officer on waste	Concurrent Backfilling of the quarry is being practiced.		

dump management

Solid Waste management-Backfilling

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Pit-1,3 &5	Pit-1&3 & 5	Very less backfilling in Quarry-1 observed to be carried out against the approved proposal in RMP. Violation of rule 11(1) issued.
5b	Area under backfilling of mined out area	Backfilling in Safety barrier (0.39ha)	Backfilling area 0.021ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposed	Top soil negligible and used for plantation.	
5d	Total area fully reclaimed & rehabilitated	1.113 ha	Nil	Backfilling has been carried but area not matured for rehabilitation.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Less backfilling in Quarry-1 observed to be carried out against the approved proposal in RMP. Violation of rule 11(1) issued on 05.09.2024. Backfilling has been carried but area not matured for rehabilitation.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted before 1st of July every Year	PMCP report received in time.	Annual report has been submitted on 28.06.2024.
6b	Management of worked/mined out benches	i) Nil	i) Nil	
	i) Area available for rehabilitation (ha)	ii) 0.06ha	ii) 0.0210ha	
	ii) Afforestation done (ha)	iii) 100 nos.	iii) 250 nos.	
	iii) No. of saplings planted during the year	iv) 500 nos.	iv) 1950 nos.	
	iv) Cumulative no. of plants	v) Nil	v) Nil	
		vi) 2000/-	vi) 20000/-	

	v) Any other specific method of rehabilitation			
	vi) Cost incurred on watch & care during the year			
6c	Compliance on reclamation and rehabilitation by backfilling	i) 0.39ha	i) 0.021 ha in 2023-24)	
	i) Voids available for backfilling (L X B X D)	ii) By waste	ii) By waste	
	ii) Void filled by waste/tailings	iii) Nil	iii) Nil	
	iii) Afforestation on the backfilled area	iv) Nil	iv) Nil	
	iv) Rehabilitation by making water reservoir	v) Nil	v) Nil	
	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease	Nil	Nil	
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out	Parameters were within the permissible limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Annual PMCP report has been submitted. Plantation has been carried out as per proposal. Environmental monitoring of air, water & noise was carried out. Parameters were within the permissible limit.		

Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	197604.25T	ROM Prod.- 56655 T, dispatch- 35847.11 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	All Grade	All Grade	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	During mine visit no subgrade mineral/ mineral reject observed. Thus, no comments to offer.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
------	------	------------------------	----------------------------	--------

8a	Separate removal and utilization of topsoil (Rule 36)	Yes	Top soil negligible and used for plantation.
8b	Concurrent use or storage of topsoil	Proposed	carried
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Concurrent backfilling is practiced.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As per proposal
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil
8f	Baseline information on existence of plantation & additional Plantation done	Proposed	As per proposal
8g	Survival rate	Not specified	50%
8h	Water sprinkling on roads to control airborne dust	Proposed	As per proposal Water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mines area is maintained by plantation. Top soil generation negligible and used for plantation during the year 2023-24.	

Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto July 2024 A.R. Submitted upto 2023-24	Annual report has been submitted on 28.06.2024
S.N	Item	Details given in A.R. for the year 2023-24	Observation of I/ Officer
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, Geologist employment is furnished In Ar as Mr Ghanshyam Patel Mr Bageshwar Nath Singh	New Mining Engineer Shri Chetan Lal & New Geologist Shri Topchand Dewangan appointed were present during inspection. Notice of appointment submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit – 8.61 Top Soil – 0.16 Ha. OB/waste -0.06 Ha Min Storage – 0.06 Ha Road – 0.25 Ha Magazine – 0.04 Ha	Pit – 8.61 OB/waste -0.06 Ha Road – 0.25 Ha As per AR.
9d	Scrutiny of Annual	250 Nos	As per AR.

	return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	42902 tonne Reject reported. 2400 cum (OB / Mineral Waste)	In PART-V Para 3. (Subgrade-Mineral Reject (in tonnes) (BAUXITE): - Generation of subgrade-mineral reject (in tonnes) from unprocessed ore has been reported as 42902 tonnes. Whereas from the records as verified during inspection it is found to be incorrect. & In PART-V Para 4. Overburden and Waste (in m3): - Generation of OB and Waste generated during the year has been reported as Nil. Whereas from the records as verified during inspection it is found to be incorrect. Violation of Rule 45(7) of MCDR 2017 issued on 05.09.2023.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	16321.00 Mt ROM Closing Stock 31.03.2024	As per AR.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	40% to below 45% Al2O3 , Rs 1025/- (Ex Mines Price & Sale value) -966.95 PMT Production Cost	As per AR.	
9i	Scrutiny of Annual return on fixed assets	Rs. 5020438.00	As per AR.	
9k	Scrutiny of Annual return on mining machineries	Furnished in AR	Rock Drill (non Elec.) – 02 Nos Water Tanker - 01 Nos	As per AR.

10. Satellite data of F.Y. 2023-24 has been submitted as per norms.

General remarks of inspecting officer:

- Safety barrier of 7.5 meters width along the mining lease boundary has not been maintained as excavation observed to be carried out between Boundary Pillar No 20 & 21 and between Boundary Pillar No 31/1 & 31/2 without such approval in the RMP.
- Excavation observed to be carried out in the area near Boundary Pillar No 31/1 & 31/2 (Below the Power line) without such approval in the RMP.
- Very less backfilling in Quarry-1 observed to be carried out against the approved proposal in RMP
- Updated plans and sections as required under this rule have not been maintained and not made available during inspection.

Further, On scrutiny of Annual Return for the year 2023-24 it is observed that (i) In PART-V Para 3. (Subgrade-Mineral Reject (in tonnes) (BAUXITE): - Generation of subgrade-mineral reject (in tonnes) from unprocessed ore has been reported as 42902 tonnes. Whereas from the records as verified during inspection it is found to be incorrect.

(ii) In PART-V Para 4. Overburden and Waste (in m3): - Generation of OB and Waste generated during the year has been reported as Nil. Whereas from the records as verified during inspection it is found to be incorrect.

(iii) In Part- VI Para 3(ii), Grade-wise Production, Dispatches, Stocks and Ex-mine price:

Production has been reported for use in alumina and aluminium extraction; whereas sale has been made to Cement industries only.

11- Details of violations observed during current inspection and the compliance status of earlier violations.: - (a) No violation was issued during earlier inspection.

(b) Violations of Rule, 11(1), 31(4), 33 & 45(7) pointed out during this inspection. Violation letter issued on 05.09.2024.

Date: 15.10.2024

) संजय कुमार महापात्र)
सहायक खान नियंत्रक
भारतीय खान ब्यूरो