

INDIAN BUREAU OF MINES

MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection Report

Jabalpur regional office

S.N.	Particulars	Details
1	Name of the Mine	Mohla Bauxite, Laterite & Fireclay Mine
	Date of Inspection:	22-11-2024
	Name of Inspecting Officer	Akash Arun Mittarwar, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	5.901 Hect.
3	Mine code	07MPR18027
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/10642/2012
5	Last Inspection Details	27/03/2024 by Shri Raghubir Sharan Garg, ACOM
6	Mine official present during the inspection	Shri Sharda Prasad Jaiswal (Lease holder), Shri J. L. Saraf (Mining Engineer) & Shri Vinesh Kumar Agrahari (Geologists)
7	Name of the Lessee, Address, Phone, email and faxnumber	Shri Sharda Prasad Jaiswal (Lease holder), Kaswasji Ward, Near Vivekanand Chowk, Tehsil – Murwara, P.O. Katni, District – Katni (M.P.) - 483501 Phone - 9754224632 E-mail – shardaprasadjaiswal74@gmail.com
8	Village	Mohla
9	Taluka/Mandal	Majholi
10	District	Jabalpur
11	Pin code	483225
12	State	Madhya Pradesh
13	Post Office	Majholi
14	Nearest Police Station	Majholi
15	Nearest Railway Station	Jabalpur
16	Date of Grant of Mining Lease	28/01/1997
17	Date of Execution	26/02/1997
18	Lease period	26/02/1997 to 25/02/2047
19	Date of opening of Mine	08/04/1997
20	Initial Grant	26/02/1997 to 25/02/2017
21	Date of First Renewal, if applicable and its period & expiry	26/02/2017 to 25/02/2047
22	Date of Second Renewal, if applicable and its period & expiry	NA
23	Date of Third Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA

25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Sharda Prasad Jaiswal (Lease holder), Kaswasji Ward, Near Vivekanand Chowk, Tehsil – Murwara, P.O. Katni, District – Katni (M.P.) - 483501 Phone - 9754224632 E-mail – shardaprasadjaiswal74@gmail.com
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	NA
28	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri J L Saraf (Mining Engineer) Qualification – Degree in Mining Engineering Date of Appointment – 01/02/2023 Mobile, Email – 9753484270, shardaprasadjaiswal74@gmail.com Shri Vinesh Kumar Agrahari (Geologist) Qualification - M.Sc. (Geology), Date of Appointment – 01/02/2023 Mobile, Email - 9826260752, shardaprasadjaiswal74@gmail.com
29	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 11 of MCDR,1988 – 09-OCT-90 Scheme of Mining under Rule 12(3) of MCDR1988 – 06-JUN-03 Scheme of Mining under Rule 12(3) of MCDR1988 – 29-JUL-09 Scheme of Mining under Rule 12(3) of MCDR1988 – 05-MAY-15 Modification of Mining plan under rule 17(3) of MCDR,2017 – 06-AUG-17 Review of Mining plan under rule 17(2) of MCDR,2017 – 25-FEB-22
30	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
31	Mineral(s) granted in lease and approved for Mining	Bauxite, Laterite & Fireclay
32	Method of Mining (Opencast, Underground)	Opencast
33	Category (Fully Mechanized, Others or Manual)	A
34	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	Not applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Not applicable	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Not specified	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Not applicable	
1e	Balance reserves as on 01.04.2023	Nil	Balance reserve as on 01/04/2024 – 111-452859 tonnes (Bauxite) 245814 tonnes (Laterite) 231177 tonnes (Fireclay)	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area explored up to G1 Level of exploration. The area is almost fully exposed by working pits where the lithology is exposed which indicates that laterite forms a capping over Bauxite boulders mixed with clay matrix.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Towards South-West & North-East of Pit A.	As per proposal	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Benches in Topsoil - 0, Overburden bench - 4, Mineral – 3 benches of 3 m height is proposed.	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.22	Can not be ascertained as no OB is reported in Annual return of 2023-24.	Violation issued under rule 11(1) of MCDR,17
2d	Quantity of topsoil generation in m ³	Not proposed	Not applicable	
2e	Quantity of overburden generation in cu.m	34879 tonnes	Nil	Violation issued under rule 11(1) of MCDR,17
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development was carried out in Pit A towards South-West & North-East direction as per proposal. Lenticular bodies of all dimensions including bodies occurring an echelon silicified linear zones of composite veins, lenses, pockets, stock-works; irregular shaped modest to small sized bodies.		

Exploitation

S.N.	Item	Proposals		Actual Work	Remarks
3a	Number of pits proposed for production	One pit		One pit	
3b	Quantity of ROM mineral production proposed (2023-24)	Bauxite – 61737 tonnes Fireclay – 32412 tonnes Laterite – 63873 tonnes		Bauxite – 3452 tonnes Fireclay – 1029 tonnes Laterite – 61518 tonnes	Violation issued under rule 11(1) of MCDR,17
3c	Recovery of Salable/usable mineral from ROM production	100 %		100 %	
3d	Quantity of mineral reject generation	Not proposed		Not applicable	
3e	Grade of mineral reject generation and threshold value declared	Not proposed		Not applicable	
3f	Quantity of sub-grade mineral generation	Not proposed		Not applicable	
3g	Grade of sub-grade mineral generation	Not proposed		Not applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized		Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed		Not applicable	
3j	Provision of drilling & blasting in mineral benches	Proposed		Drilling & blasting carried out as proposed.	
3k	Provision of mining machineries in mineral benches	proposed		Drilling & blasting using electrical drill machine are in practice as mechanised method of mining was adopted. Front End Loader – 1 – 1.2. Cu. m Dumper -2 – 16 tonnes Pump – 1 – 650 Lit/Min Water Tanker -1 – 5000 litres	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed		Height of o/b & mineral benches is suitable for method of mining as proposed.	
3m	Total area covered under excavation /pits	4.155 hect.		3.286 hect.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.22		Can not be ascertained as no OB is reported in Annual return of 2023-24.	Violation issued under rule 11(1) of MCDR,17
3o	Total area put in use under different heads at the end of year	5.339 hect.		5.9 hect.	
3p	Production of ROM mineral during	2019-20	80000 t	2019-20 – 68120 t	
	last five-years period, as Applicable	2020-21	79988 t	2020-21- 55000 t	

		2021-22	70494 t	2021-22 – NA	
		2022-23	161766 t	2022-23 – 112360 t	
		2023-24	158023 t	2023-24 – 65999 t	
3q	General remarks of inspecting officer on method of mining etc	Category A mines have adopted mechanized method of mining. The excavation of mineral done by with shovel-dumper combination & transportation through hired trucks & tippers.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	OB generated during the year proposed for backfilling in excavated area in 7.5m barrier zone in Pit A.	Can not be ascertained as no OB is reported in Annual return of 2023-24.	Violation issued under rule 11(1) of MCDR,17
4b	Location of topsoil, OB & mineral reject dumps	OB proposed for backfilling of barrier zone near BP - 11 to 15.	Backfilling already done	
4c	Number of Dumps within lease area and outside lease area	Not proposed	Not applicable	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable	
4e	Number of Active & Alive dumps	Not proposed	Not applicable	
4f	Number of dead dumps	Not proposed	Not applicable	
4g	Number of dumps established	Not proposed	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	OB generated during the year used for backfilling in excavated area in 7.5m barrier zone.		

Solid Waste Management-Backfilling

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 from mined out area is proposed	Full extraction of mineral under progress up to the UPD	
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Not Applicable	

5d	Total area fully reclaimed & rehabilitated	Not Proposed	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No proposal of backfilling of mined out area, reclamation & rehabilitation during the year.		

Progressive Mine Closer Plan

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	Proposed	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	Not applicable	
	ii) Afforestation done (ha.)	Not proposed	Not applicable	
	iii) No. of saplings planted during the year	Not proposed	Not applicable	
	iv) Cumulative no. of plants	Not proposed	Not applicable	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable	
	vi) Cost incurred on watch & care during the year	Not Specified	Not applicable	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	0.1022 sq. m	As per proposal	Backfilling work of barrier zone near BP - 11 to 15
	ii) Void filled by waste/tailings	60597 cu. m	As per proposal	
	iii) Afforestation on the backfilling	250 plants	250 saplings planted	
	iv) Rehabilitation by making water reservoir	Not Proposed	Not applicable	
	v) Any other specific means	Not Proposed	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	250 plants	As per proposal	
	ii) Area rehabilitation iii) Method of rehabilitation			
6e	Compliance of Environment monitoring (core zone & Buffer zone)	Proposed	Within prescribed limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Backfilling of barrier zone & plantation over backfilled area has been observed.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise sorting within lease area	ROM mineral dispatch to cement & Refractory industries	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sort out at mine	Cement & Refractory grade	As per proposal	
7d	Any beneficiation process at mines	Not Proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Minerals produced from this mine used only for manufacturing cement & Refractory industries		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Not Applicable	
8b	Concurrent use or storage of topsoil	Not Proposed	Not Applicable	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	For backfilling in excavated area in 7.5m barrier zone	As per proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	NA	250 saplings were planted.	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on roads to control airborne dust carried out with the use of water tanker	

8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation was done in the proposed location. Needs improvement for aesthetic beauty in and around mine area.
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Compliance of Rule 45:-

S.N.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted both Monthly & Annual Returns	Submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Geologist	Shri J. L. Saraf (Mining Engineer) & Shri Vinesh Kumar Agrahari (Geologists)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	Covered under current (O-C) Workings – 3.286 hect. Infrastructure – 0.088 hect. Others to specify – 0.753 hect. Reclaimed-rehabilitated – 0.011 hect. waste disposal – 0.141 hect. Others – 2.375 hect.	
9d	Scrutiny of Annual return on afforestation	250 number of saplings were proposed for plantation	As per proposal	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	ROM closing stock as on 01/04/2024 – Bauxite - 43347.770 (Cement), 7173.950 (Refractory), 2461.290 (Chemical) Laterite - 43741.126, Fireclay - 27845.736	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex. Mine price - Bauxite - 750.00, Laterite - 438.01, Fireclay - 250.00 & production cost - 356.00	
9h	Scrutiny of Annual return on fixed assets	Yes	Value of Fixed Assets* (₹3977563)	
9k	Scrutiny of Annual return on mining machineries	Yes	Drilling & blasting using electrical drill machine are in practice as mechanised method of mining was adopted. Front End Loader – 1 – 1.2. Cu. m Dumper -2 – 16 tonnes	

			Pump – 1 – 650 Lit/Min Water Tanker -1 – 5000 litres	
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Details of Violations observed during current inspection and compliance position of violation pointed out:-

Rule – 11(1) of MCDR 2017

Rule – 33 of MCDR 2017

Rule – 34A of MCDR 2017

Name: Akash Arun Mittarwar

Designation: Assistant Mining Engineer