

INSPECTION DATASHEET year 2022-23**General**

S.N.	Particulars	Details
1	Name of the Mine	Takariya Bauxite, Laterite & Fire Clay Mine
	Date of Inspection:	16 Aug 2023
	Name of Inspecting Officer	Mr. Abhishek Ranjan Gautam
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	8.094 Hect.
3	Mine code	07MPR18024
4	IBM Registration Number under rule 45 of MCDR,1988	4336
	Last Inspection Details	Inspecting officer – Shri Sanjay M Girhe, RMG Date of Inspection – 13/04/2022 Violation Point out – 11(1) of MCDR 2017 26(2) of MCDR 2017 54(a) of MCDR 2017 VL Compliance date – 18/01/2023
	Mine official present during the inspection	Shri Arpit Jain, Lessee Representative
5	Name of the Lease, Address, Phone, email and fax number	Savitri Minerals, Village Tikariya, Tehsil Katni, Mob: .9425157434 Email: savitriminerals@yahoo.in ,
6	Village	Tikariya
7	Taluka/Mandal	Tikariya
8	District	Katni
9	Pin code	483442
10	State	Madhya Pradesh
11	Post Office	Katni
12	Nearest Police Station	Katni
13	Nearest Railway Station	Murwara
14	Date of Grant of Mining Lease	07.05.1987
15	Date of Execution	07.05.1987
16	Date of opening of Mine	07.05.1987
17	Date of First Renewal, if applicable and its period & expiry	07.05.2007 to 06.05.2027
18	Date of Second Renewal, if applicable and its period & expiry	07.05.2027 to 06.05.2037
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Yogesh Sharma
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Sourabh Nayak

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23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. Sourabh Nayak, B. Tech in Mining, Date of Appointment 15 March 2022
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr Umakant Soni, M.Sc in Geologist Date of Appointment 30 March 2022
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Approval Date of Mining Plan 07.06.2022 Period 01 April 2023 to 31 March 2027
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	
27	Mineral(s) granted in lease and approved for Mining	Bauxite
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	A
30	Captive/Non-Captive	Non Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	5 nos. of Bore holes	Nil	Violation pointed out under rule 11(1)
1b	Exploration over lease area for Geological axis 1 or 2.	Lease area explored up to G2 level	Lease area explored up to G2 level	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Entire mineralised area to be explored in G1 level	Entire mineralised area has been explored in G2 level	
1e	Balance reserves as on 01.04.2023		122 – 825314 tons	
1f	General remarks of Inspecting officer on geology, exploration etc.	Violation of Rule 11(1) of MCDR,2017 was pointed out & issued for not carrying out the exploration as proposed		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	23°43'54.45"N 80°24'8.71"E To 23°43'55.98"N 80°24'9.72"E	23°43'54.45"N 80°24'8.71"E To 23°43'55.98"N 80°24'9.72"E	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	2 Benches of 4 Mtr	2 Benches of 4 Mtr	
2c	Stripping ratio or ore to OB	1:0:09	1:0:09	

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	ratio		
2d	Quantity of topsoil generation in m ³	NIL	NIL
2e	Quantity of overburden generation in m ³	NIL	NIL
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Bench height and width is found maintained as per proposal. Development done as per proposal.	

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Single pit	Working carried out in single as proposed	
3b	Quantity of ROM mineral production proposed (2022-23)	77307 tons	75750 tons	
3c	Recovery of Salable/usable mineral from ROM production	90%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Proposed by small dia 33m shallow drilling & blasting	Drilling & blasting carried out as proposed	
3k	Provision of mining	L & T PC-200 - 1.2	L & T PC-200 - 1.2 CuM	

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	machineries in mineral benches	CuM Dumpers-10Tonne Water Tanker -5Kl Atlas Comp- 210 CFM Jack Hammer-33m	Dumpers-10Tonne Water Tanker -5Kl Atlas Comp- 210 CFM Jack Hammer-33m	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB benches of 5m & Bauxite ore benches-5m proposed	Benches heights maintained as proposed in OB and bauxite ore mining	
3m	Total area covered under excavation /pits	2.20	2.20	
3n	Ore to OB ratio for the pit/mine during the year	1:0.09	1:0.09	
3o	Total area put in use under different heads at the end of year	Pit area-3.260 Ha Waste dumps-0.35Ha Mineral Storage-0.30Ha Infrastructure-0.10Ha Road-0.350Ha	3.10	As per annual return 2022-23
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19 89082 2019-20 79840 2020-21 91287 2021-22 90258 2022-23 77307	2229 171.45 253.89 66485 75750	
3q	General remarks of inspecting officer on method of mining etc	Mechanised open cast working proposed by using Excavator /JCB & dumper combination with shallow drilling & blasting using jack hammer.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed for OB and Bauxite	Working carried out in separate benches as proposed	
4b	Location of topsoil, OB & mineral reject dumps	Concurrent use for backfilling proposed of generated OB material	Working carried out as proposed	
4c	Number of Dumps	Total ten small	Total ten small	

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	within lease area and outside lease area	overburden dumps in ML area	overburden dumps in ML area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	All OB dumps outside UPL	All OB dumps outside UPL	
4e	Number of Active & Alive dumps	Total ten overburden dumps in ML area	Total ten overburden dumps in ML area	
4f	Number of dead dumps	No dead dumps in ML area	No dead dumps in ML area	
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	50MTR	50MTR	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Total 10 overburden dumps encountered in ML area and future backfilling proposed in working pits where ore has been exhausted.		

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	Presently none of the pit matured for backfilling	Presently none of the pit matured for backfilling	
5b	Area under backfilling of mined out area	No Proposals	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No Proposals	NIL	
5d	Total area fully reclaimed & rehabilitated	Presently no area has been reclaimed & rehabilitated	Presently no area has been reclaimed & rehabilitated	
5e	General remarks of inspecting officer on	Presently working pits area has not been matured		

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backfilling, reclamation etc

for backfilling.

Progressive Mine Closer Plan

S.N.	Item	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-20	Before 1 st July 2023	Summited on 28 June 2023	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	NIL	NIL	
	ii) Afforestation done (ha)	0.8	0.8	
	iii) No.of saplings planted during the year	50	50	
	iv) Cumulative no. of plants	2050	2050	
	v) Any other specific method of rehabilitation	NIL	NIL	
	vi) Cost incurred on watch & care during the year	0.5 Lac	0.5 Lac	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	NIL	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	NIL	NIL	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Analysis reports were provided

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6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Presently scope of backfilling/reclamation & rehabilitation doesn't exist and no proposals are given. Periodic monitoring is being carried out by outsourced consultant.
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Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	77307 MT proposed as total ROM/Bauxite ore production for despatch. Grade wise sorting proposed within lease area for high grade refractory & rest non-plant cement grade	75750 MT production of bauxite carried out and grade wise sorting carried out in ML area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sort out at mine	For Aluminium plants Bauxite having +43.50 Al ₂ O ₃ & (-)3.20% SiO ₂ , Refractory grade- Al ₂ O ₃ -+50% , SiO ₂ -(-)6% & Fe ₂ O ₃ -(-) 6%, Cement Plant grade- Al ₂ O ₃ - (30-40%), SiO ₂ -18%	For Aluminium plants Bauxite having +43.50 Al ₂ O ₃ & (-)3.20% SiO ₂ , Refractory grade- Al ₂ O ₃ -+50% , SiO ₂ -(-)6% & Fe ₂ O ₃ -(-) 6%, Cement Plant grade- Al ₂ O ₃ - (30-40%), SiO ₂ -18%	
7d	Any beneficiation process at mines	No proposals	NIL	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral is being conserved by grade wise sorting in the lease area for Aluminium plants Bauxite having +43.50 Al ₂ O ₃ & (-)3.20% SiO ₂ , Refractory grade- Al ₂ O ₃ - +50% , SiO ₂ -(-)6% & Fe ₂ O ₃ -(-) 6%, Cement Plant grade- Al ₂ O ₃ - (30-40%), SiO ₂ -18%. . Grade wise stacking is done on earmarked locations.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	No Proposals	NIL	
8b	Concurrent use or storage of topsoil	No Proposals	NIL	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	OB generation & its utilization proposed for backfilling	NIL	Very less OB generated during the year 2022-23
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB generation & its utilization proposed for backfilling	NIL	Very less OB generated during the year 2022-23
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 (Rule 41)	During the year 2022-23, 100 nos of plantation ML area & 150 outside ML area carried out	During the year 2022-23, 100 nos of plantation ML area & 150 outside ML area carried out	
8g	Survival rate	70%	60%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 300-400 sapling/year in next ROMP.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR of Jun-23 and AR of 2022-23 has been submitted	Submitted
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Shri Saurabh Nayak Geologist: Shri Umakant Soni	Appointed as per rule
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use as per Annual return 2022-23 Pit area-3.260 Ha Waste dumps-0.35Ha Mineral Storage-0.30Ha Infrastructure-0.10Ha Road-0.350 Ha	As submitted by lessee
9d	Scrutiny of Annual return on afforestation	During the year 2022-23, 100 nos of plantation ML area & 150 outside ML area carried out	As submitted by lessee
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No any mineral reject generated during the year.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	As per AR 2022-23, approved mining plan ROM was proposed 77307 T & actual production carried out 75750 t	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex mine Price : Rs.747.67, Cost of production = Rs. 706.00	As submitted by lessee
9i	Scrutiny of Annual return on Fixed assets	Fixed assets as per AR: Value of Fixed Assets – Rs – 8000000/-	
9k	Scrutiny of Annual return on mining Machineries	L & T PC-200 - 1.2 CuM Dumpers-10Tonne Water Tanker -5Kl Atlas Comp- 210 CFM Jack Hammer-33m	Above machines are deployed in the lease area

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

1. Rule – 11(1) of MCDR 2017 dated 21/07/2023
2. Rule 34A(2) of MCDR 2017 dated 21/07/2023
3. Rule 45(7) of MCDR 2017 dated 30-08-2023

Date:

Name: Abishek Ranjan Gautam

Designation: Asst Mining Engineer