

**INSPECTION DATASHEET For The Year 2022-23****General**

S.N.	Particulars	Details
1	Name of the Mine	TIKARIYA- BAUXITE, LATERITE & FIRECLAY
	Date of Inspection:	28/01/2024
	Name of Inspecting Officer	ABHISHEK RANJAN GAUTAM
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	27.02
3	Mine code	75MPR47015
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5491/2011
5	Last Inspection Details	Inspecting officer – Shri Robert Simon C, ACOM Date of Inspection – 20/03/2023 Rule 11(1), 26(2), 31(4), 33 Compliance date 12/09/2023
6	Mine official present during the inspection	Shri Arun Shukla, Lessee Representative
7	Name of the Lease, Address, Phone, email and fax number	SHRI SHANKAR LAL VISHWAKARMA ADD.- JALPA DEVI WARD KATNI (MP) EMAIL- <a href="mailto:newminerals@yahoo.com">newminerals@yahoo.com</a> MO.NO.- 8225949605
8	Village	TIKARIYA
9	Taluka/Mandal	MURWARA
10	District	KATNI
11	Pin code	483501
12	State	(MP)
13	Post Office	NIWAR
14	Nearest Police Station	NIWAR
15	Nearest Railway Station	NIWAR
16	Date of Grant of Mining Lease	06/03/2003
17	Date of Execution	06/03/2003
18	Date of opening of Mine	06/03/2003
19	Date of First Renewal, if applicable and its period & expiry	m.p./Katni/Bx/MPLN/mod-01/09-10 Dated-28/07/2009
20	Date of Second Renewal, if applicable and its period & expiry	314(3)/2010-MCCM (C)/S-60 Dated -2/5/11
21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	MP/Katni/Bx/MPLN/MOD-30/19/20 dated-29/06/2020
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	SHRI SHANKAR LAL VISHWAKARMA ADD.- JALPA DEVI WARD KATNI (MP) EMAIL- <a href="mailto:newminerals@yahoo.com">newminerals@yahoo.com</a> MO.NO.- 8225949605
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	-
24	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Prabhat kumar tiwari
25	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	PRABHAT KUMAR TIWARI (B.TECH)MINING
26	Whether Geologist and Mining Engineer appointment	GEOLOGIST-VIMAL KUMAR TIWARI (M.sc-

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	in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Geology)
27	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	29/06/2020 2020-21 TO 24-25
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	29/06/2020
29	Mineral(s) granted in lease and approved for Mining	06/03/2003
30	Method of Mining (Opencast, Underground)	OPENCAST
31	Category (Fully Mechanized, Others or Manual)	SEMI MECHANIZED
32	Captive/Non-Captive	NON-CAPTIVE

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	10 BH	Exploration done	
1b	Exploration over lease area for Geological axis 1 or 2.	Not specified	Partially lease area explored up to G1 level	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	BORE HOLE MACHINE WAS HIRED KHANNA DRILLER	500000	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not specified	Partially lease area explored up to G1 level	Exploration under process in upcoming year. Proposal given in Mining plan
1e	Balance reserves as on 01.04.2023	2332668	2495208 (BAUXITE)	
1f	General remarks of Inspecting officer on geology, exploration etc.	The bauxite in the lease area is in the form of irregular shaped intermix with laterite and fire clay. Proposed exploration is achieved.		

### Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N-23 <sup>0</sup> 43'46.627 TO 23 <sup>0</sup> 43'52.827 E-80 <sup>0</sup> 24'34.762 TO 80 <sup>0</sup> 24'40.057	N-23 <sup>0</sup> 43'46.627 TO 23 <sup>0</sup> 43'52.827 E-80 <sup>0</sup> 24'34.762 TO 80 <sup>0</sup> 24'40.057	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	3 ORE & 1 OB	3 ORE & 1 OB	
2c	Stripping ratio or ore to OB ratio	1:0.66	1:0.66	
2d	Quantity of topsoil generation in m <sup>3</sup>	NIL	NIL	

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2e	Quantity of overburden generation in m <sup>3</sup>	NIL	NIL	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Overall development is lagging. Violation pointed out under rule 11(1) of MCDR 2017.		

**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks	
3a	Number of pits proposed for production	1	1		
3b	Quantity of ROM mineral production proposed (2022-23)	162540	45800		
3c	Recovery of Salable/usable mineral from ROM production	60%	28%		
3d	Quantity of mineral reject generation				
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	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	NO	NO		
3k	Provision of mining machineries in mineral benches	EXCAVATOR	EXCAVATOR		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NIL	NIL		
3m	Total area covered under excavation /pits	20.000	19.833 ha		
3n	Ore to OB ratio for the pit/mine during the year	1:0.66	1:0.66		
3o	Total area put in use under different heads at the end of year	20.000	20 ha(approx.)		
3p	Production of ROM mineral during last five-years period, as Applicable	18-19	219240	90000	
		19-20	216880	81900	
		20-21	203030	87450	
		21-22	215838	53900	
		22-23	162540	48000	
3q	General remarks of inspecting officer on method of mining etc	Only 48000 tonnes of ROM bauxite is produced against the proposal of 162540 tonnes for the year 2022-23. Violation pointed out under rule 11(1).			

**Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	OB dumping proposed	OB dumping done	
4b	Location of topsoil, OB & mineral reject dumps	23°44'0.478"N to 80°24'31.223 E	23°44'0.478"N to 80°24'31.223"E	
4c	Number of Dumps within lease area and outside lease area	01	01	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	within UPL (NORTH EAST)	within UPL (NORTH EAST)	
4e	Number of Active & Alive dumps	01	01	
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	Not Specified	Garland drain-120 m(approx). is constructed along the boundary	
4i	Length of Retaining wall or garland drain all along dump	Not Specified	Garland drain-120 m(approx). is constructed along the boundary	
4j	Number of settling ponds	NIL	NIL	
4k	Specific commends of inspecting officer on waste dump management	Garland drain-120 m(approx). is	constructed along the boundary.	

**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 before backfilling proposed	Backfilling is carried out in the barrier zone	
5b	Area under backfilling of mined out area	0.2062	Backfilling is carried out in the barrier zone	
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 SPECIFIED	0.405 ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling is carried out in the barrier zone.		

**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	Annual report on PMCP submitted on time and correctly	Annual report on PMCP submitted on time and correctly	
6b	Management of worked/mined out benches	3	2	
	i) Area available for rehabilitation (Ha)	0.2060	0.2062	
	ii) Afforestation done (ha)	0.2060	0.2060	
	iii) No.of saplings planted during the year	Nil	Nil	
	iv) Cumulative no. of plants	300	100	
	v) Any other specific method of rehabilitation	Not proposed	Not applicable	
	vi) Cost incurred on watch & care during the year	5000	5000	
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	GREEN BELT-0.2062	GREEN BELT-0.2062	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Not proposed	Not applicable	
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
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation not done as proposed. Violation pointed out.		

**Mineral Conservation**

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Bauxite is sorted out	Bauxite is sorted out manually. Cement grade bauxite is available in the lease.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual sorting is practiced.	
7c	Different grade of mineral sort out at mine	Available grades are sorted out.	Cement grade bauxite is available in the lease area. which is sorted out.	
7d	Any beneficiation process at mines	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Cement grade bauxite is available in the lease. Mineral reject/subgrade mineral is also blended and sold in order to achieve zero waste mining.		

**Environment**

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	Top soil is not present in the area.	
8b	Concurrent use or storage of topsoil	Not proposed	Top soil is not present in the area.	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes proposed	Seperate dump of intercalated waste/rejects is practiced.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes proposed	as per proposal, waste will will be used for backfilling.	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not proposed for reporting year	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Nil	Nil	Violation pointed out
8g	Survival rate	NA	NA	
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	There is no top soil in the area, One dump and small stacks of mineral is there. Plantation is not done in reporting period. Violation pointed out.		

**Compliance of Rule 45**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR of Jan-24 and AR of 2022-23 has been submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<b>Name of the Mining Engineer:</b> Shri Prabhat Kumar Tiwari <b>Geologist:</b> Shri Vimal Kumar Tiari	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 <b>2022-23</b> Currant working: 20 ha. Reclaimed-rehabilitated – 0.206 ha Used for waste disposal – 0.700 ha Roads and Infra. : 0.380 ha. Green Belt: 0.120 ha.	
9d	Scrutiny of Annual return on Afforestation	Plantation not done as proposed	Violation pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	As per AR	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine Price : Rs 791.67, Cost of production = Rs 546.88/-	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets* (₹ 29714134)	
9k	Scrutiny of Annual return on mining Machineries	FRONT END LOADER 1.200 CUM 2 Non Electrical Opencast DUMPER 10.000 TONNE 2 Non Electrical Opencast DUMPER 16.000 TONNE 2 Non Electrical Opencast WATER TANKER 4500.000 LITRE 1 Non Electrical Opencast	

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

**Rule – 11(1) of MCDR 2017 dated 09/02/2024**

**Rule – 34A 27) of MCDR 2017 dated 09/02/2024**

Date:

Name: Abhishek Ranjan Gautam

Designation: Assistant Mining Engineer