

MCDR REPORT**General**

S.N.	Particulars	Details
1	Name of the Mine	Tikariya Bauxite Mine ,Area - 4.69 hect.
	Date of Inspection:	16/05/2024
	Name of Inspecting Officer	Robert Simon C (ACOM)
2	Total Lease Area (Ha) with breakup of non-forest and forest land	4.69(Ha)
3	Mine code	75MPR47003
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5487/2011
5	Name of the Lease, Address, Phone, email and fax number	SHRI POORAN LAL VISHWAKARMA JALPA DEVI WARD PURANI BASTI KATNI, (MP), 9300512088 newminerals1@yahoo.com
6	Village	TIKARIYA
7	Taluka/Mandal	MURWARA
8	District	KATNI
9	Pin code	483501
10	State	MP
11	Post Office	NIWAR
12	Nearest Police Station	NIWAR
13	Nearest Railway Station	NIWAR
14	Date of Grant of Mining Lease	07/03/1998
15	Date of Execution	07/03/1998
16	Date of opening of Mine	06/04/2007
17	Date of First Renewal, if applicable and its period & expiry	06/04/2006
18	Date of Second Renewal, if applicable and its period & expiry	09/08/2011
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	No. E 2358 MCDR-MPCOBXT/1/2022-JBP-IBM_RO_JBP dt. 30/03/2023.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Pooran Lal Vishwakarma Jalpa Devi Ward Purani Basti Katni, (MP) , 9300512088 Newminerals1@yahoo.com
21	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shivdhan Vishwakarma (B.Tech) Add.- Ward No.13 Gram Karitlai / Post Karitlai Tehshil Vijayraghogarh Katni (M.P.) date of appointment: 18/09/2022.
22	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shivdhan Vishwakarma (B.Tech) Add.- Ward No.13 Gram Karitlai / Post Karitlai Tehshil Vijayraghogarh Katni (M.P.) date of appointment: 18/09/2022.
23	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Ajay Kumar Agnihotri M.Sc. (Geology) Add.- Vill. -Madhi, Post- Barti, Tehshil- Rampur Baghelan ,Dist. -Satna (MP) date of appointment: 16/09/2022.
24	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP/KATNI/BAUXITE/MOD – 23-2018 – 19 05/11/2018
25	Mineral(s) granted in lease and approved for Mining	BAUXITE, LATERITE & FIRECLAY
26	Method of Mining (Opencast, Underground)	OPENCAST
27	Category (Fully Mechanized, Others or Manual)	A
28	Captive/Non-Captive	NON-CAPTIVE

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Not specified	21 BH drilled	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Khanna Associate;Rs.4,00,000.	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Entire 4.69 ha Explored in G-1	
1e	Balance reserves as on 01.04.2024	133312	134375	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire 4.69 ha Explored in G-1.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Pit A	Pit A	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Only mineral benches proposed	Mineral benches maintained	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
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.	2023-2024 Opencast Development were carried out in PIT A, B1 TO B4 benches in west direction.		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	PIT A	PIT A	
3b	Quantity of ROM mineral production proposed (2023-24)	19963	18900	
3c	Recovery of Salable/usable mineral from ROM production	55% Bauxite & 45% minor mineral Laterite from ROM	As per proposal	
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	Mechanized	Mechanized	
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	Nil	Nil	
3k	Provision of mining machineries in mineral benches	Not specified	DUMPER 10.000 TONNE 2 Nos;	

			PUMPS (NON-ELEC.) 10.000 L/MN 1 Nos; WATER TANKER 4500.000 LITRE 1 Nos; WHEEL LOADER 2.000 CUM 1 Nos; JEEP/TRACTOR 4500.000 HP 1 Nos.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Found suitable	
3m	Total area covered under excavation /pits	Not specified	2.48 ha	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	
3o	Total area put in use under different heads at the end of year	2.75 ha	2.78 ha	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	28911	43100
		2020-21	23677	50200
		2021-22	29337	27800
		2022-23	33298	22700
		2023-24	19963	18900
3q	General remarks of inspecting officer on method of mining etc	During the year 2023-24 development & production was proposed towards southeast of the Block-B, Pit- A. During the inspection, excavation of Block-B, Pit-C was also found extended within 7.5m statutory barrier zone and beyond mining lease area between the ML boundary pillar nos. BP-08 to BP-05. Hence 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)	Not proposed	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Nil	
4c	Number of Dumps within lease area and outside lease area	Not proposed	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Nil	
4e	Number of Active & Alive dumps	Not proposed	Nil	
4f	Number of deed dumps	Not proposed	Nil	
4g	Number of dumps established	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific commends of inspecting officer on	OB & waste generation not proposed. The		

	waste dump management	whole ROM is mineral Bauxite & minor mineral laterite.
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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	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Not applicable as full depth of mineral not exhausted and also no OB & waste available for backfilling in future.		

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	Yes	PMCP submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	0.9Ha	0.9Ha	
	ii) Afforestation done (ha)	0.9	0.9	
	iii) No.of saplings planted during the year	100	100	
	iv) Cumulative no. of plants	100	80	
	v) Any other specific method of rehabilitation	NIL	NIL	
	vi) Cost incurred on watch & care during the year	10000	10000	
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)	Yes	Carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	It was proposed to carryout fencing over 330 m length between BP-17 to BP-15 & BP-17 to BP-01 but the same was not carried out. Hence violation pointed out under Rule 11(1).		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sort out at mine	Sorting of Bauxite and laterite from ROM	As per proposal	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no issues related with mineral Conservation. Both, bauxite and laterite were dispatched after manual sorting.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	Not done	
8b	Concurrent use or storage of topsoil	Not proposed	Not done	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	Not done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Not applicable as complete extraction of mineral from depth still to be carried out.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100	100 trees planted during the year	
8g	Survival rate	80%	80 %	
8h	Water sprinkling on roads to control airborne dust	WATER TANKER	WATER TANKER	

8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mine area needs improvement.
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Compliance of rule 45 :

Sl.N	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and Annual returns	Returns are submitted on time.	Returns are submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager : NA Mining Engineer in charge: Shivdhan Vishwakarma Geologist in charge : Ajay Kumar Agnihotri	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 0.060 0.060 (iii) Reclaimed-rehabilitated 0.000 0.210 0.210 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.000 0.000 (vi) Used for any other purpose (specify) GREEN BELT 0.000 0.090 0.090 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000	The details wrt to Lease area (surface area) utilisation as at the end of year is incorrectly furnished	Violation pointed out under Rule 45(7).
9d	Scrutiny of Annual return on afforestation	Given	Description Within lease area Outside lease area i) Number of trees planted during the year 100 0 ii) Survival rate in percentage 80 0 iii) Total no. of trees at the end of the year 80 0	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Given	Cement grade Bauxite Opening stock : 28210.139; Production : 18900 Tonnes; Dispatch: 17731.115 T; Closing stock : 29379.024	
9g	Scrutiny of Annual return on sale value, Ex Mine price & production costs	Given	Cost of production & Ex mine price –Rs. 794.33	
9i	Scrutiny of Annual return on Fixed assets	Given	The Value of Fixed Asset is mentioned as Rs. 12795979.	
9k	Scrutiny of Annual return on mining Machineries	Given	Type of machinery Capacity of each type of machinery Unit	

			(in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast underground (specify) DUMPER 10.000 TONNE 2 Non Electrical Opencast PUMPS (NON-ELEC.) 10.000 L/MN 1 Non Electrical Opencast WATER TANKER 4500.000 LITRE 1 Non Electrical Opencast WHEEL LOADER 2.000 CUM 1 Non Electrical Opencast JEEP/TRACTOR 4500.000 HP 1 Non Electrical Opencast	
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Details of Validations observed during current inspection and compliance position of earlier violation pointed out:-

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 11(1)	16-JUL-24		Rule 11(1)	04-NOV-24	07-JAN-25
Rule 31(4)	16-JUL-24		Rule 33	04-NOV-24	07-JAN-25
Rule 33	16-JUL-24		Rule 33	04-NOV-24	07-JAN-25
Rule 45(7)	16-JUL-24		Rule 45(7)	04-NOV-24	07-JAN-25

Robert Simon C

Assistant Controller of Mines