

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Jabalpur Regional office

Mine code: 44MPR35172

General Information

S.N.	Particulars	Details
1	Name of the Mine Date of Inspection: Name of Inspecting Officer	Koldiha – 2 Bauxite Mine, Area 45.892 ha. 11/09/2024 Shri Abhishek Ranjan Gautam, Assistant Mining Engineer
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	45.892 ha (non-forest)
3	Mine code	44MPR35172
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/6677/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s Kunjilal Ishwari Prasad Agrawal At & P.O. Jaitwara DISTT –Satna, M.P Phone:- 9425172715
6	Village	Koldiha
7	Taluka/Mandal	Ramnagar
8	District	Satna
9	Pin code	485772
10	State	Madhya Pradesh
11	Post Office	Sonadi
12	Nearest Police Station	Ram Nagar
13	Nearest Railway Station	Maihar, District – Stana
14	Date of Grant of Mining Lease	22.01.2002
15	Date of Execution	22.01.2002
16	Date of opening of Mine	--
17	Date of First Renewal, if applicable and its period & expiry	Not applicable.
18	Date of Second Renewal, if applicable and its period & expiry	Not applicable.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Durga Prasad Agrawal, Jaitwara, Distt. – Satna (M.P) Mobile no. - 9685968827
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Ram Chandra Agrawal, Jaitwara, Distt. – Satna (M.P) Mobile no. - 9685968827
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	NA
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri R C Bansal, Mobile no. – 9407852925 Email -

24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Shri Amit Sen Gupta Mobile no. – 7000653298 Appointed on - 01/08/2022
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Letter No. E 8349 MCDR- MP CO BXT/11/2023-JBP_IBM_RO_JBP . Date – 02/11/2023
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and approved for Mining	Bauxite
28	Method of Mining (Opencast, Underground)	Open Cast
29	Category (Fully Mechanized, Others or Manual)	Category “A” (Full Mechanized)
30	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	Nil	--
1b	Exploration over lease area for Geological axis 1 or 2.	G1 Level achieved.	No exploratory work carried out by the lessee during the year, GSR Submitted & Approved.	--
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not Proposed	Not applicable	--
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not Proposed	Not applicable	--
1e	Balance reserves as on 01.04.2024	Reserves as	Bauxite 111 - 38778 211 - 3641 Total(111,211) - 42359	--
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire mineralized lase area has already been explored as per UNFC Guidelines by the lessee. Geological study report based on exploration has been submitted.		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	It was proposed to work in between N2683950 to 2684100 & E517000 to E517150	Development work done as per proposal	Pit was found waterlogged.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	OB-1 bench (3 m x 3 m), SOIL- 1 bench (1m x 1m) BXT- 3 bench (5 m x 5 m)	OB-1 bench (3 m x 3 m), SOIL- 1 bench (1m x 1m) BXT- 3 bench (5 m x 5 m)	--
2c	Stripping ratio or ore to OB ratio	1:0.35	Nil	Very Less production observed
2d	Quantity of topsoil generation in m ³	Not Proposed	Not applicable	--
2e	Quantity of overburden generation in m ³	4060 cum	4500 cum	--
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Mine working for other minerals such white clay, laterite , ochre and kaolin now falls under minor minerals were carried out by formation of single working pit located in central part of lease area.		

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)	15272 tons	30 Tone	Less development & production observed. Hence Violation pointed out under rule 11(1)	
3c	Recovery of Salable/usable mineral from ROM production	80% of ROM	As per proposal	--	
3d	Quantity of mineral reject generation	Not Proposed	NIL	--	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	NIL	--	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	--	
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	--	
3h	Manual/Mechanized method adopted for segregation from ROM	Manual segregation	As per proposal	--	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	NIL	--	
3j	Provision of drilling & blasting in mineral benches	Not Proposed	NIL	--	
3k	Provision of mining machineries in mineral benches	YES	YES	--	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	--	
3m	Total area covered under excavation /pits	2.3 ha	2.3 ha	--	
3n	Ore to OB ratio for the pit/mine during the year	1:0.35	Nil	Very Less production observed	
3o	Total area put in use under different heads at the end of year	5.85 ha.	5.85 ha.	--	
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20	13248	17867	
		2020-21	13248	7100	
		2021-22	15272	10870	
		2022-23	15272	710	
		2023-24	15272	30	
3q	General remarks of inspecting officer on method of mining etc	Open cast manual method of mining is proposed. Letho formation of the lease area is soft in nature due presence of white earth material. Mining restricted in single centralized pit only.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Simultaneous backfilling of mined out area fall under 50m statutory barrier	Simultaneous backfilling carried out as per proposal.	--

		zone for high tension line through the lease area, proposed in place of separate dumping		
4b	Location of topsoil, OB & mineral reject dumps	Towards southern and eastern direction at a distance of about 100m from pit edge.	As per approved OK proposal.	-
4c	Number of Dumps within lease area and outside lease area	Two within lease area	Two within lease area	Within lease area.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Both proposed dumps proposed within ultimate pit limit.	Both proposed dumps are within ultimate pit limit.	--
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	Overburden/mine waste is in loose form containing lateritic soil & clay. Presently there are two waste dumps which are not dead but presently OB/IB/mine waste generated from mining utilised in backfilling of part of pit fall under statutory barrier zone for high tension line passing through the lease area.		

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	Portion of pit from where full extraction of mineral carried out proposed for backfilling . backfilled quantity -	As per approved proposal. quantity - 4500cum	
5b	Area under backfilling of mined out area	2075sqm	As per proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Top soil is proposed to use for plantation.	Top soil has been used for plantation.	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not applicable	--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Reclamation has been done by backfilling.		

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	Submitted	--
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	NA	--
	ii) Afforestation done (ha)	Not proposed	NA	--
	iii) No. of saplings planted during the year	Not proposed	NA	--
	iv) Cumulative no. of plants	1100cum during the year and cumulative 7800cum	100	--
	v) Any other specific method of rehabilitation	Not proposed	NA	--
	vi) Cost incurred on watch & care during the year	Not proposed	NA	--
6c	Compliance on reclamation and rehabilitation by backfilling (2023-24)			
	i) Voids available for backfilling (L*B*D)	NA	NA	--
	ii) Void filled by waste/tailings	NA	NA	--
	iii) Afforestation on the backfilling	NA	NA	--
	iv) Rehabilitation by making water reservoir	NA	NA	--
	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Not proposed	NA	--
	ii) Area rehabilitation	Not proposed	NA	--
	iii) Method of rehabilitation	Not proposed	NA	--
6e	Compliance of Environment monitoring (core zone & buffer zone)	YES	YES	--
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP compliance submitted for 2023-24 .		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Direct dispatch of Lime stone from ML/mine.	Direct dispatch of Lime stone from ML/mine.	--
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Grade wise ore sorting is proposed by portable screening	Being practiced as proposed	--
7c	Different grade of mineral sort out at mine	Chemicals grade bauxite having (+ 46% Al ₂ O ₃ &(-) 5% SiO ₂ and Cement grade bauxite (30-45% Al ₂ O ₃ & -15% SiO ₂ Max, Fe ₂ O ₃ - 10 to 30% proposed	chemicals grade bauxite having (+ 46% Al ₂ O ₃ & (-) 5% SiO ₂ and Cement grade bauxite (30-45% Al ₂ O ₃ & -15% SiO ₂ Max, Fe ₂ O ₃ - 10 to	--

			30% proposed	
7d	Any beneficiation process at mines	Not proposed	Not applicable	--
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Mineral beneficiation not proposed the produced ROM is being dispatched.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Proposed	Utilization of Top Soil.	--
8b	Concurrent use or storage of topsoil	Proposed	Topping of B/F area for plantation.	--
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	--
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Overburden and waste are proposed for back filling.	Overburden and waste has been used for backfilling.	--
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	As per proposal	--
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed 100 saplings inside the lease area.	100 saplings planted in Backfilled area.	--
8g	Survival rate	Not Proposed	90%	--
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling carried out.	--
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty is full within lease area by dense plantation and outside the lease area from agriculture land.		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return submitted Annual Return submitted upto 2023-24	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Shri R C Bansal Geologist - Shri Amit Sen Gupta	
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 1.210 1.210 (iii) Reclaimed-rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 1.030 1.030 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.120 0.120 (vi) Used for any other purpose (specify) Mineral Stack, Green Belt, G Drain etc 0.000 1.540 1.540 (vii) Work done under progressive mine closure plan during the year 0.000 0.200 0.200	
9d	Scrutiny of Annual return on afforestation	(i) Number of trees planted during the year: 100 nos in B/F area. (ii) Survival rate in percentage 90%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	NIL	

9f	Scrutiny of Annual return on ROM stock and/or grade ore	Cement Grade Closing Stock as on 31.03.2024 = 29514.850 mt				
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value: Rs. 891/- Ex mine price Rs. 2400.00/-				
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets (in ₹) 100000/-				
9k	Scrutiny of Annual return on mining Machineries	S. No	MACHINERY	CAPACITY	NO. OF UNITS	
		1	Dumper	10 tone	1No	--
		2	Back Hoe	1.000 Cum	1	--

Abhishek Ranjan Gautam

Assistant Mining Engineer