

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/ANUP/BX-3

Mine code : 07MPR38002

- (i) Name of the Inspecting : **G006**) **ABHISHEK RANJAN GAUTAM**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 18-JUN-22
- (v) Prev.inspection date : 20-FEB-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHACHANDIH (17.744 HA)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SHAHDOL
Village : CHACHANDIH
Taluka : PUSPARAJGARH
Post office : RAJANDRAGRAM
Pin Code : 484881
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station : Rajandragram
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SHRI RAM AUTAR AGRAWAL
correspondance P.O. JAITWARA, DIST. SATNA (M.P.) 485221
3. (a) Lease Number : MPR2071
(b) Lease area : 17.74
(c) Period of lease : 20
(d) Date of Expiry : 06-MAY-24
4. Mineral worked : BAUXITE Main
OCHRE Associated
LATERITE Associated

5. Name and Address of the

Lessee : RAM AUTAR AGRAWAL
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : RAM AUTAR AGRAWAL
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	13-JUN-03
Plan/Scheme of Mining		Modif.of approved Mining Plan	09-MAY-05
		Modif.of approved Mining Plan	14-FEB-08
		Mining Scheme rule 12 MCDR1988	23-FEB-12
		Mining Scheme rule 12 MCDR1988	25-FEB-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	proposed to explore the lease area upto G1	lease area explored upto G1	10 nos of core bore hole have been done in the year 2021-22
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		122- 571056 Tons	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease area is in G1 level of exploration.it is shallow ,hill top type deposit.it has soil, laterite, bauxite and at bottom lithomargic clay.the total depth of mining is maximum upto 10 mtr.bauxite is upto 6 mtrs.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-2626025-5825,E-562500-562650	N-2626075-5950,E-562500-562575	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	

2c	Stripping ratio or ore to OB ratio	1:0.97	1:.09	
2d	Quantity of topsoil generation in m3	5220 cubic meter	6525 cubic meter	
2e	Quantity of overburden generation in m3	15819 cubic meter	19600 cubic meter	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine is developed in benches. 2 benches in waste, 2 in mineral. it is worked by shovel tipper . the waste is soil and laterite and below it two benches of bauxite are won.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit for development & production.	
3b	Quantity of ROM mineral production proposed	49811 Tons	49800 Tons	
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	Not applicable	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	
3e	Grade of mineral rejects 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 / Mechanised method adopted for segregating from ROM	Not proposed	Not applicable	Bauxite seperated from waste at face manually.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable	
3j	Provision of drilling and blasting in mineral benches	Jack hammer drilling & blasting proposed	Jack hammer drilling & blasting done	
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	Suitable for Mining	
3m	Total area covered under excavation/pits	9 ha	Around 6.5 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.97	1:.09	
3o	Total area put in use under different heads at the end of year	9 ha	6.5 ha	

3p	Production of ROM mineral during the last five year period as applicable	2017-18 - 50002 T 2018-19 - 50002 T 2019-20 - 50197 T 2020-21 - 49990 T 2021-22 - 49811 T	2017-18 - 11789 T 2018-19 - 49994 T 2019-20 - 49990 T 2020-21 - 49800 T 2021-22 - 49800 T
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3q	General remarks of inspecting officers on method of mining etc.	The mine is developed in benches, Two waste benches & two for mineral.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Not applicable.	Top soil used for backfilling in mined out area.
4b	Location of topsoil, OB and mineral reject dumps	Eastern Side of the lease	Eastern Side of the lease	
4c	Number of dumps within lease area and outside of lease area	03 Dumps	03 Dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps were proposed with in ultimate pit limit.	Dumps found within ultimate pit limit.	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	02	02	
4g	Number of dumps established.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	

4i	Length of Retaining wall or garland drain all along dumps	Along the pit	Around 500 mtr	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			The dumps were proposed to be used for reclamation & rehabilitation of mined out pit after mining.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full	Being done	
5b	Area under backfilling of mined out area	0.5 HECT	0.3 HECT	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	YES	Done	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Backfilling was proposed in current year but not started till date as per proposal
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling was proposed in current year but not started till date as per proposal

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted on time under rule 26(2)	submitted	
6b	Area available for rehabilitation (ha) .	Not applicable	Not applicable	
6c	afforestation done (ha).	0.5 ha	Nil	Violation pointed out for same.
6d	No. of saplings planted during the year	500 nos	Nil	Violation pointed out for same.
6e	Cumulative no .of plants	Not proposed	Not provided	
6f	Any other method of rehabilitation	Not proposed	Not applicable	
6g	Cost incurred on watch and care during the year		Data not provided	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Backfilling proposed in mined out area	Not done	Violation pointed out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	1.5 ha	Not done/seen	Violation pointed out.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	500 nos of plants	Not done	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not applicable	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	Being done	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Backfilling not done as per proposal. Violation pointed out for same.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area		Grade separation in metal & Cement.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	METAL and CEMENT grade	METAL and CEMENT grade	
7d	Any beneficiation process at mines .	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral is sorted and separated in two grades.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	lateritic soil available is used for backfilling	lateritic soil available is used for backfilling	
8b	Concurrent use or storage of topsoil	Concurrent	Concurrent	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	waste material used for backfilling	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	being done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 nos of plants	Nil	Violation pointed out
8g	Survival rate	50%	plantation not done	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			plantation not done. Violation pointed out

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR submitted upto May 2022 AR submitted upto 2021-22	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Ajit Kumar - Mining Engineer Shri Dileep Kumar Mishra - Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining - 5.5 ha (ii) Covered under current (O/C) Workings - 1.0 ha (iii) Reclaimed/Rehabilitated - 4.5 ha	
9d	Scrutiny of Annual return on afforestation	500 nos	No new plantation has been done
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No rejects generated	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing stock (in tonne) -37520 tone	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price - 663.07/- Cost of production - 598.40/-	
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in .) Nil	
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) - 0.900 CUM - 1 nos DUMPER 16.000 TONNE - 3 nos	

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
MCDR17	Rule 11(1)	11-JUL-22			
MCDR17	Rule 31(1)	11-JUL-22			
MCDR17	Rule 34(1)	11-JUL-22			

Date :

(ABHISHEK RANJAN GAUTAM)

Indian Bureau of Mines