

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/OCH-151

Mine code : 44MPR35172

- (i) Name of the Inspecting Officer and ID No. : **GQ06) ABHISHEK RANJAN GAUTAM**
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine Official with Designation : Shri Ramchandra Agrawal, Lessee Representative
- (iv) Date of Inspection : 18-AUG-22
- (v) Prev.inspection date : 20-MAR-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KOLDIYA NO 2 (45.892 HA)**
- (b) **Registration NO.** : **IBM/6677/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : KOLDIYA
Taluka :
Post office :
Pin Code :
FAX No. : 07671274327
E-mail : kunjilalishwariprasad@gmail.
Phone : 9425172715
- (f) Police Station : SATNA
- (g) First opening date : 01-DEC-04
- (h) Weekly day of rest : SUN
2. Address for correspondance : M/S KUNJILAL ISHWARI PRASAD AGRAWAL
P.O. JAITWARA, DIST. SATNA (M.P.)
PINCODE- 485221
3. (a) Lease Number : MPR2259
- (b) Lease area : 45.89
- (c) Period of lease : 20
- (d) Date of Expiry : 22-JAN-22
4. Mineral worked : OCHRE Main
BAUXITE Associated
LATERITE Associated
CLAY (OTHERS) Associated

5. Name and Address of the

Lessee : KUNJILAL ISHWARI PRASAD AGRAWAL
 AT & P.O. JAITWARA
 DIST.SATNA M.P SATNA MADHYA
 PRADESH
 Phone:09425172715
 FAX :N. A.

Owner : KUNJILAL ISHWARI PRASAD AGRAWAL
 AT & P.O. JAITWARA DIST.
 SATNA M.P SATNA MADHYA
 PRADESH
 Phone: 09425172715
 FAX : N. A.

Agent : RAMCHANDRA AGARWAL
 AT & P.O. JAITWARA DIST.
 SATNA M.P SATNA MADHYA
 PRADESH
 Phone: 9425172715
 FAX : 07671-274227

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20-DEC-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	18-MAY-09
		Mining Scheme rule 12 MCDR1988	31-AUG-16
		MP modif under 17(3) MCR 2016	25-SEP-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2020-21 total 5 Core & 5 DTH boreholes & during the year 2021-22, 9 Core & 8 DTH boreholes were proposed.	Exploration work done as per proposal	
1b	Exploration over lease area for geological axis 1 or 2	During the year 2020-21 total 5 Core & 5 DTH boreholes & during the year 2021-22 9 Core & 8 DTH boreholes were proposed.	Exploration work done as per proposal. lease area explored upto G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2020-21 total 5 Core & 5 DTH boreholes & during the year 2021-22 9 Core & 8 DTH boreholes were proposed.	Expenditure details not provided	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not applicable	Exploration work done as per proposal. lease area explored upto G1 level	
1e	Balance reserve as on 01/04/20		Proved Reserves (111) - 282575 tonnes Feasibility Resources - 109186 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration work done as per proposal. lease area explored upto G1 level

Development :

Sl.No.	Item	Propasals	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 proosal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	During inspection, seperate bench were observed in top soil and in ore as per the proposed heights.	
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.35	1: 0.25	
2d	Quantity of topsoil generation in m3	1500 CuM	1000 cuM	
2e	Quantity of overburden generation in m3	4060 CuM	10350 CuM	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine working for other laterite & white clay were carried out by formation of single working pit located in central part of lease area.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit located in central part of lease	One pit	
3b	Quantity of ROM mineral production proposed	15272 Bauxite ore	10870 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	80% of ROM	approx 80% of ROM	

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	Manual	Manual	Manual sorting is being practised for segregation ore bauxite ore
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	Not Proposed	Not applicable	
3k	Provision of mining machineries in mineral benches	Dumper - 10 tonner capacity Water Tanker - 5KL Shovel- Not proposed	Dumper - 10 tonner capacity Water Tanker - 5KL Shovel- Not proposed	Loading of material is proposed by manual means
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In top soil bench height of 1.5 & height of 5 to 6 proposed	Height of benches in OB & Ore found suitable	
3m	Total area covered under excavation/pits	2.25 Ha	2.250 ha	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.35	1:0.25	
3o	Total area put in use under different heads at the end of year			Covered under current working - 2.250 ha Reclaimed/Rehabilitated - 0.170 ha wast disposal - 1.0 ha Infrastructur - 1.1 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18-: 44464 MT 2018-19-: 45131 MT 2019-20-: 13248 MT 2020-21 -: 13248 MT 2021-22-: 15272 MT	2017-18-: 380 MT 2018-19-: 17867 MT 2019-20-: Nil MT 2020-21-: 7100 MT 2021-22-: 10870 MT	
3q	General remarks of inspecting officers on method of mining etc.			Open cast manual method of mining is proposed. Litho formation of the lease area is soft in nature due presence of white earth material. Mining restricted in single centralised pit only.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping OB/Mine waste proposed	Yes	
4b	Location of topsoil, OB and mineral reject dumps	towards south and east side	towards south and east side	
4c	Number of dumps within lease area and outside of lease area	Two	Two	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	
4e	Number of active and alive dumps.	Two	At Present there are two active waste dump.	
4f	Number of dead dumps.	Not proposed	No dead dumps existing in the lease area	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain arond the mine pit.	Garland drain arond the mine pit maintained	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	approx. 50 m	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management			Presently there are two waste dumps which are active in nature.

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.	Not specificed.	Backfilling done partially at 1000 sq m area.	
5b	Area under backfilling of mined out area		Backfilling done partially at 1000 sq m area.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use proposed	500 CuM top soil used to spread over backfilled area for plantation purpose.	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			In southern part of mining lease, reclamation & rehabilitation by backfilling has been done. This backfilled area is in close proximity of HT line.

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).	Yes	submitted within stipulated time	
6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	
6c	afforestation done (ha).	Not Proposed	NIL	
6d	No. of saplings planted during the year	Not proposed	Nil	
6e	Cumulative no .of plants	Not specified	Nil	
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Not specified	Not applicable	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	1000 SqM backfilled
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not Proposed	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	Partially backfilled
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Proposed	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Environment monitoring/analyses reports were provided during mine inspection.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mining lease/pit area not fully mineral exhausted, hence scope of reclamation/rehabilitation is very limited.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch and Garde wise sorting	ROM mineral dispatch and Garde wise sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Grades for Bauxite Cement grade Chemical grade	Grades for Bauxite Cement grade Chemical grade	
7d	Any beneficiation process at mines	Not proposed	Manual sorting in mine	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mineral is being conserved by grade wise separation in the lease area. Chemical 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% separate out.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil storage & utilization on backfilled area proposed	Top soil stored & utilized on backfilled area for plantation purpose	
8b	Concurrent use or storage of topsoil	Storage & use over backfilled area proposed	Used as the proposals	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of mine waste proposed	Carried out as per the proposals	Mineral rejects & fine generation not occurred during the couse of mining operations
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed for restoring purpose	Backfilling carried out with mine waste material for restoration purpose.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out area proposed for restoration, reclamation & rehabilitation purpose	Backfilling carried out with mine waste material for restoration purpose.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year plantation were proposed	Nil
8g	Survival rate	Not Proposed	Not applicable
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed by water tanker	Water sprinkling carried out by water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines 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 maximum numbers of saplings/year in review of mining plan.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M.R. submitted upto-Jul - 2022 A.R. submitted upto-2021-22	

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.	Open cast working-2.250 Ha Waste dump - 1.0 Ha Infrastructures-1.10 Ha	
9d	Scrutiny of Annual return on afforestation	As per annual return of 2021-22 plantations of 300 trees reported. But during inspection no new plantation observed.	Violation pointed out for same
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral rejects generated from mine.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stocks - 15159 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price: Cement Grade -Rs 717/MT Chemical grade- 800/MT	
9h	Scrutiny of Annual return on fixed assets	Rs 100000/-	
9k	Scrutiny of Annual return on mining machineries	B category mining without drilling blasting in combination with Tata dumpers of 10 tonner capacity. Water tanker of 5 KL.	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	09-SEP-22			
MCDR17	Rule 34(1)	09-SEP-22			

Date :

(ABHISHEK RANJAN GAUTAM)

Indian Bureau of Mines