

**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 : **G005** ) **SANJAY M. GIRHE**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 20-MAR-21
- (v) Prev.inspection date : 12-OCT-17

**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 : M/S KUNJILAL ISHWARI PRASAD AGRAWAL  
correspondance 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 2019-20 total 5 Core & 5 DTH boreholes & during the year 2020-21 5 Core & 5 DTH boreholes were proposed.	Not done	Violation under Rule 11(1) of MCDR,2017 issued for not carrying out exploration as proposed in approved Modified Mining Plan dtd 25.09.2019
1b	Exploration over lease area for geological axis 1 or 2	During the year 2019-20 total 5 Core & 5 DTH boreholes & during the year 2020-21 5 Core & 5 DTH boreholes were proposed for geological axis 1	Not done	Violation under Rule 11(1) of MCDR,2017 issued for not carrying out exploration as proposed in approved Modified Mining Plan dtd 25.09.2019
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2019-20 total 5 Core & 5 DTH boreholes & during the year 2020-21 5 Core & 5 DTH boreholes were proposed for geological axis 1	Not done	NA

1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2019-20 total 5 Core & 5 DTH boreholes & during the year 2020-21 5 Core & 5 DTH boreholes were proposed for geological axis 1	43.88 Ha area to be explored in G-1 & G-2	Exploration not carried out in accordance with approved proposals
1e	Balance reserve as on 01/04/20	Reserves in Million tonnes Proved Reserves (111) - 0.300 Resources Feasibility Resources - 0.109 Reserves/Reso urces position as on 01.04.2019	Reserves in Million tonnes Proved Reserves (111) - 0.293 Resources Feasibility Resources - 0.109 Reserves/Resources position as on 31.03.2021	No fresh/additional reserves were estimated in previous approved modified mining plan dtd 25.09.2019
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	Entire mineralised lase area has not been explored fully as per UNFC Guidelines by the lessee in past. Hence, lessee was instructed to carry out further exploration to convert G2 & G3 reserves/resources into G1 level of exploration in compliance of Rule 12(4) of MCDR, 2017

---

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 with reduced level proposed from 357mRL to 349.50mRL	No bauxite ore production carried out during the year	NA
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One top soil bench of 1.5m, no separate bench for OB & 3 benches (B2 to B4) of 3 to 5m height were proposed for buaxite ore, white clay & laterite	During inspection, seperate bench were observed in top soil and in ore as per the proposed heights.	Mine developement were observed as lagging due to less production as proposed
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.35	Nil as no production during the year	NA
2d	Quantity of topsoil generation in m3	1500 CuM	1000 CuM	NA
2e	Quantity of overburden generation in m3	During the year 3660 CuM OB was proposed	Acheived during the year 1500 CuM	No bauxite production carried out during the year 2019-20. OB generation due to other laterite & white earth mineral excavation.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	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	Nil	No bauxite ore production carried out during the year
3b	Quantity of ROM mineral production proposed	13248 Bauxite ore	Nil	No production carried out
3c	Recovery of sailable/usable mineral from ROM production	80% of ROM	Nil	Nil production during the year
3d	Quantity of mineral reject generation	Not Proposed	Nil	NA
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NA	NA
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	
3g	Grade of sub grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	Manual sorting is being practised for segregation ore bauxite ore
3j	Provision of drilling and blasting in mineral benches	Not Proposed	NA	Due presence of white earth, deposit becomes soft in nature & drilling-blasting is not required

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 as per approved modified MP dtd 25.09.19	1.65 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38	Nil	Nil production during the year
3o	Total area put in use under different heads at the end of year	2.25 Ha area was proposed in approved MMP period i.e. 2019-20 to 2023-24	1.65Ha as on 01.04.2019, No bauxite production carried out during the year 2019-20	
3p	Production of ROM mineral during the last five year period as applicable	2015-16-: Nil 2016-17-: 39104 MT 2017-18-: 44464 MT 2018-19-: 45131 MT 2019-20-: 13248 MT	2015-16-: Nil 2016-17-: 200 MT 2017-18-: 380 MT 2018-19-: 17867 MT 2019-20-: Nil MT	During the year 2019-20 no bauxite ore production carried out
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	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	No dumping carried out due no production during the year	
4b	Location of topsoil, OB and mineral reject dumps	Towards southern & eastern part of lease area	Not done	No bauxite ore production carried out during the year
4c	Number of dumps within lease area and outside of lease area	Towards southern & eastern part of lease area	At present two waste dumps are existing between E517000 to E517200 to N2683750 to and N2688490.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Towards southern & eastern part of lease area	At present two waste dumps are existing between E517000 to E517200 to N2683750 to and N2688490 outside UPL	
4e	Number of active and alive dumps.	Not Proposed	At Present there are two active waste dump.	
4f	Number of dead dumps.	Not Proposed	No dead dumps exiting in the lease area	
4g	Number of dumps established.	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drian around the mine pit proposed	Garland drian around the mine pit found	
4i	Length of Retaining wall or garland drain all along dumps	Not Specified	Around 50 to 70m length	
4j	Number of settling ponds	Not Proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Overburden/mine waste is in loose form containing latritic soil & clay. 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.	During the year backfilling was proposed by 3660 CuM waste material	Not done	No bauxite production carried out during the year.
5b	Area under backfilling of mined out area	During the year backfilling was proposed by 3660 CuM waste material	Around 2800 SqM	
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	During the year backfilling was proposed by 3660 CuM waste material	Around 2800 SqM area reclaimed & rehabilitated	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	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	Not submitted within stipulated time	Violation of rule Rule 26(2) of MCDR,2017 issued.

6b	Area available for rehabilitation (ha) .	Not Proposed	Nil	Due to inadequate exploration, non-mineralised area for rehabilitation purpose couldnot be identified.
6c	afforestation done (ha).	Not Proposed	1200 Saplings planted so far	
6d	No. of saplings planted during the year	Not Proposed	Nil	
6e	Cumulative no .of plants	Not Proposed	1200 saplings planted so far	
6f	Any other method of rehabilitation	Not Proposed	Nil	
6g	Cost incurred on watch and care during the year	Not Proposed	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No	2800 SqM backfilled so far	
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 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	Due to inadequate exploration, waste land in lease area couldnot be identified	
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.	NA	NA	Mining lease/pit area not fully mineral exhausted, hence scope of reclamation/rehabilitation is very limited. Periodic monitoring is being carried out by outsourced consultant M/s. BSS Lab. Jabalpur.

---

Mineral Conservation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

7a	ROM Mineral dispatch or grade-wise sorting within lease area	5760 MT proposed as total ROM production for despatch. Grade wise sorting not proposed	No production & despatch of bauxite occurred during the year	Bauxite of lease area is suitable for cement manufacturing plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise ore sorting is proposed by portable screening	Being practised as proposed	
7c	Different grade of mineral sorted out at mines.	Chemical grade bauxite having (+ 46% Al <sub>2</sub> O <sub>3</sub> & (-) 5% SiO <sub>2</sub> and Cement grade bauxite (30-45% Al <sub>2</sub> O <sub>3</sub> & -15% SiO <sub>2</sub> Max, Fe <sub>2</sub> O <sub>3</sub> - 10 to 30% proposed	Segregation of bauxite as per desired grade being practised.	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Mineral is being conserved by grade wise separation in the lease area. Chemical grade bauxite having (+ 46% Al <sub>2</sub> O <sub>3</sub> & (-) 5% SiO <sub>2</sub> and Cement grade bauxite (30-45% Al <sub>2</sub> O <sub>3</sub> & -15% SiO <sub>2</sub> Max, Fe <sub>2</sub> O <sub>3</sub> - 10 to 30% separate out.

---

**Environment:**


---

Sl.No.	Item	Proposals	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 course 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	Plantation were carried out on waste land & over backfilled area	
8g	Survival rate	Not Proposed	Approx 70% due to scarcity of water and stony field	
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	NA	NA	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	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. not submitted upto- Feb - 2021 A.R. submitted upto-2019-20	Monthly & annual returns are regularly being submitted online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not Given	Mining Engineer & Geologist were appointed at the time inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open cast working-2.50Ha Waste dump - 1.250 Ha Infrastructure s-1.250 Ha	As per Annual Returns	
9d	Scrutiny of Annual return on afforestation	1200 Saplings with 60% survival rate	Some plantation were observed along statutory barrier	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	NA	

---

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-11552 4MT Despatch-2529 C/S-9023.35 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 615/MT Chemical grade- Not mentioned Sale Value- Rs 615/MT
9h	Scrutiny of Annual return on fixed assets	Given	As per AR
9k	Scrutiny of Annual return on mining machineries	Given	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 cause position		
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	19-APR-21		MCDR17	Rule 11(1)	19-APR-21 30-AUG-21
MCDR17	Rule 26(2)	19-APR-21	09-JUL-21			
MCDR17	Rule 32(1) (a)	19-APR-21	09-JUL-21			
MCDR17	Rule 45(1)	19-APR-21	09-JUL-21			

**Date :**

**(SANJAY M. GIRHE)**

Indian Bureau of Mines