

MCDR-MiFLOBXT/1/2023-JBP-IBM\_RO\_JBP  
INDIAN BUREAU OF MINES

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/16395/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/STN/OCH-151

Mine code : 44MPR35172

- (i) Name of the Inspecting : G007 ) RAGHUBIR SHARAN GARG  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Ramchandra Agrawal partner of firm and Shri Prade  
Official with  
Designation
- (iv) Date of Inspection : 31-JUL-23
- (v) Prev.inspection date : 18-AUG-22

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@gmai  
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

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## 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 modify under 17(3) MCR 2016	25-SEP-19

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## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no proposal against backlog of previous year.	Additional exploration work not carried out by the lessee during the year under review	OK
1b	Exploration over lease area for geological axis 1 or 2	There was no exploratory proposal against the year for geological axis 1 or 2	No exploratory work carried out by the lessee during the year.	OK
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable as additional exploration work not carried out by the lessee.	OK
1d	Balance area to be explored to bring Geological axis in 1 or 2	There was no proposal of exploration for balance area to be explored under Geological axis 1 or 2	Not applicable as additional exploration work not carried out by the lessee.	OK
1e	Balance reserve as on 01/04/20	Reserves as on 01/04/2023 Proved Reserves (111) -267303 tonnes Feasibility Resources - 109186 tonnes	281865 tonnes Feasibility Resources - 109186 tonnes	Actual production is to less than the proposed one resulting actual updated reserves are more than the updated reserves based on proposed one.

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1f	General remarks of inspecting officers on geology, exploration etc	Entire mineralized lase area has already been explored as per UNFC Guidelines by the lessee t. But geological study report based on exploration carried out based on approved one in the light of rule 1294B) of MCD Rules,2017 had not been submitted by the lessee. Violation of rule 12(4B) pointed out based on current inspection.
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## Development :

Sl.No.	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 with reduced level proposed from 357mRL to 349.50mRL	Development work done as per proposal	Pit was found waterlogged.
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 bauxite ore, white clay & laterite	Mine was found temporary closed due to rainy season. However during inspection, separate bench were observed in top soil and in ore as per the proposed heights.	Mine development were observed as lagging due to less production as proposed. Pit was found waterlogged and benches at some places particularly top bench was found collapsed mainly due to heavy rain.

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2c	Stripping ratio or ore to OB ratio	1:0.35	1:0.27tones per cum	Along with bauxite,Whiteclay, ochre,Lateritr and kaolin are also included in mining lease. Total production of all the minerals from the lease area was 16210tone for which 4500cum OB removed during the year under review.
2d	Quantity of topsoil generation in m3	1500cum	NA	-
2e	Quantity of overburden generation in m3	4060cum	4500cum	OK
2f	General remarks of inspecting officers 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:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	OK
3b	Quantity of ROM mineral production proposed	15272tone	710tonne	Very less production than the envisaged one . For the deviation violation of rule 11(1) pointed out vide letter dated 10/08/2023
3c	Recovery of sailable/usable mineral from ROM production	80% of ROM	As proposed	OK

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3d	Quantity of mineral reject generation	Not proposed	Nil	OK
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NA	OK
3f	Quantity of sub grade mineral generation.	No proposal	Nil	OK
3g	Grade of sub grade mineral generation	No proposal	Not applicable	OK
3h	Manual / Mechanised method adopted for segregating from ROM	Manual segregation	As per proposal	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable	OK
3j	Provision of drilling and blasting in mineral benches	No proposal	Not applicable	OK
3k	Provision of mining machineries in mineral benches	Dumper - 10 tonner capacity Water Tanker - 5KL	Dumper - 10 tonner capacity Water Tanker - 10KL	
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	ok
3m	Total area covered under excavation/pits	2.25 Ha as per approved modified MP dtd 25.09.19	1.95 Ha	OK
3n	Ore to OB ratio for the pit/mine during the year.	1:0.35	1:0.27 tone per cum	OK
3o	Total area put in use under different heads at the end of year	5.85hect	4.01hect	OK

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3p	Production of ROM mineral during the last five year period as applicable	2018-19-: 73600 MT 2019-20-: 13248 MT 2020-21 -: 13248 MT 2021-22-: 15272 MT 2022-23- :15272MT	2018-19-: 17867 MT 2019-20-: Nil MT 2020-21-: 7100 MT 2021-22-: 10870 MT 2022-23-:710MT	During the year 2019-20 no bauxite ore production carried out. In year under review only 710MT ( nominal) production of bauxite achieved against proposed one of 15272MT. Deviation pointed out through violation of rule 11(1) of MCDR,2017
3q	General remarks of inspecting officers 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.

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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Simultaneous backfilling of mined out area fall under 50m statutory barrier zone for high tension line through the lease area, proposed in place of separate dumping	Simultaneous backfilling carried out as per proposal.	OK
4b	Location of topsoil, OB and mineral reject dumps	Towards southern and eastern direction at a distance of about 100m from pit edge.	As per approved proposal.	OK

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4c	Number of dumps within lease area and outside of lease area	Two within lease area	Two within lease area	OK
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.	OK
4e	Number of active and alive dumps.	Not proposed as there are proposal for backfilling of part of pit fall under 50m barrier zone for the high tension line passing through the lease area.	Nil against the yearunder review.	OK
4f	Number of dead dumps.	As preproposal there is no dead dump	No dead dumps exiting in the lease area	OK
4g	Number of dumps established.	Not proposed	Nil	OK
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Retaining wall or garland drain along dumps not seen	There is requirement to form a retaining wall or garland drain along dumps so that wash of material from the dumps may not damage the agriculture land nearby from the existing dumps. A frsh RMP document is likely to be submitted very soon for approval and in processing of the same this fact have to be taken into account .
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	NA	
4j	Number of settling ponds	Not Proposed	Nil	ok



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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.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of 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 - 4060cum	As per approved proposal. quantity - 4500cum	Ok
5b	Area under backfilling of mined out area	2075sqm	As per proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use proposed Concur rent use proposed	As per approved proposal.	
5d	Total area fully reclaimed and rehabilitated	Reclaimed 2300sqm, Rehabilitated nil	Reclamation work lagging as on full scale, extraction of mineral from the mine not carried out in last four years.	Reclamation worklagging.

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling and reclamation work lagging as year wise year on full scale extraction of mineral from the lease area not achieved in last four years.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	PMCP report for the year 2022-23 received.	OK
6b	Area available for rehabilitation (ha) .	Not proposed	Not applicable	OK
6c	afforestation done (ha).	Not Proposed	1300 Saplings planted so far including 300 saplings planted during the year under review.	
6d	No. of saplings planted during the year	Not proposed	300	
6e	Cumulative no .of plants	Not proposed	1300 saplings planted so far.	
6f	Any other method of rehabilitation	Not proposed	Not applied	OK
6g	Cost incurred on watch and care during the year	Not proposed	Not available	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	1100cum during the year and cumulative 7800cum	100cum voids was available	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	600cum	507cum	

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6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed	Not done	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA	OK
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Not applicable	OK
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	Although adequate exploration have been carried out by the lessee but Geological Study Report based on exploration not prepared . So part of lease area as a wasteland not determined. However, on southern lease boundary statutory barrier zone plantation was proposed and accordingly plantation over area was also seen.	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	Although adequate exploration have been carried out by the lessee but Geological Study Report based on exploration not prepared . So part of lease area as a wasteland not determined.	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	NA as waste land yet to be determined based on additional exploration carried out by the lessee in one year back.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals	Environment monitoring/analysis reports were provided during mine inspection.



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## Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	15272 MT proposed as total ROM production for dispatch. Grade wise sorting not proposed	Grade wise dispatch- Cement Grade 755MT Chemi. Grade 38MT	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 practiced as proposed	
7c	Different grade of mineral sorted out at mines.	chemicals 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	chemicals 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	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral is being conserved by grade wise separation in the lease area. Chemicals 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 proposed	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	OB/IB/Mine waste utilized for simultaneous backfilling . Mineral reject not generated.	OK
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 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	
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	

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8i General remarks of inspecting officer on aesthetic beauty in and around mines area

Aesthetic beauty in and around mine area is not bad. In overall area of 45hect area engaged in mining and allied activity are only about 4hect rest part of the lease area is almost agriculture land where crops of paddy were seen. OnNorth side of the lease area at a distance of about 800m there is Kymore range with lush greenery particularly in rainy season and in south at a same distance Gidhila Reserve Forest. Plantation in lease area also in good no.It appears that aesthetic beauty is good

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submission of MR & AR	M.R. submitted upto-Jul - 2023 A.R. submitted upto-2022-23	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer - Shri R.C. Bansal Geologist - Shri Ashish Ojha	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Open cast working-2.250 Ha Waste dump - 1.0 Ha Infrastructures-1.10 Ha Used for mineral stack 0.69Ha	
9d	Scrutiny of Annual return on afforestation	Given	300 saplings	

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Nil	OK
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM Stock 15292tone Grade wise stock- Cement Grade-0.25MT Chemical Grade - 2524.48MT & Refr. Grade -170MT	OK
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	A-Sale value i. cement grade Rs. 700/- ii. Refractory grade Rs. No sale iii. Chemical Grade Rs. 700/- B-Ex Mine Price i. cement grade Rs. 700/- ii. Refractory grade Rs. No sale iii. Chemical Grade Rs. 700/-/33 C Cost of production Rs. 494/53	Cost of production calculation appears incorrect. Deficiencies observed & pointed out in this regard are as follows:- In calculation of cost of production as a taxes Rs. 0 had taken into account which is not correct.
9h	Scrutiny of Annual return on fixed assets	Given	Value of fixed assets Rs. 100000/-	Although B category mine Onlower side
9k	Scrutiny of Annual return on mining machineries	Given	Dumper 10tonner 1No	OK



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**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
1.	11 (1)	10/08/2023	11 (1)		
2.	12 (4B)	10/08/2023		09/08/2023	
3.	45 (7)	10/08/2023		09/08/2023	

(RAGHUBIR SHARAN GARG)

Date :

Indian Bureau of Mines