

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/OCHRE-17

Mine code : 32MPR35037

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Keshav Bansal Lessees Representative.
Official with
Designation
- (iv) Date of Inspection : 15-MAR-23
- (v) Prev.inspection date : 21-SEP-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PAMARIYA (KH.NO. 80)**
- (b) **Registration NO.** : **IBM/6953/2011**
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : PAMARIYA
Taluka :
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station : MAJHAGAWAN
- (g) First opening date : 09-DEC-64
- (h) Weekly day of rest : MON
2. Address for : M/ S HIRALAL RAMESHWAR PRASAD
correspondance P.O. JAITWARA, DIST. SATNA (M.P.) 485221
3. (a) Lease Number : 32MPR35037
- (b) Lease area :13.44
- (c) Period of lease :50 years
- (d) Date of Expiry :08.12.24
4. Mineral worked : BAUXITE Associated
OCHRE Main
CLAY (OTHERS) Associated
LATERITE Associated

I/8409/2023

5. Name and Address of the

Lessee : HIRALAL RAMESHWAR PRASAD
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : HIRALAL RAMESHWAR PRASAD
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	29-JUL-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	08-NOV-12
		Mining Scheme rule 12 MCDR1988	24-OCT-14
		MP review under 17(1) MCR 2016	07-MAR-19

I/8409/2023

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	Nil	Entire lease area has already been considered geologically explored at G1 level.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	As on 01/04/2018 mineral reserve of bauxite was 391677 tonnes	As on 01/04/2021 the was reserve of bauxite of 295397 tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc			Deposit of the lease area belongs to Upper Rewa Sand Stone group of Vindhyan Supper Group. lease area is hilly having slope towards South.The surface area is covered by blanket of lateritic soil/laterit/bauxite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2751550 to 2751760 and E489650 to 489820 and N2751615 to 2751780 and EE 489490 to 489530	N2751550 to 2751760 and E489650 to 489820 and N2751615 to 2751780 and EE 489490 to 489530	

I/8409/2023

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in overburden and mineral proposed	Separate benches in overburden and mineral maintained.
2c	Stripping ratio or ore to OB ratio	1:0.82	1:0.73
2d	Quantity of topsoil generation in m3	Nil	NA
2e	Quantity of overburden generation in m3	48570	43000
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Along with recovery of Bauxite from the proposed first bench laterite is also recovered. So in fact there are no separate benches in bauxite and laterite. Furthermore Fireclay and ochre are also included in the lease area as a minor mineral, both are found below the deposition of Bauxite / laterite capping. Both the above stated minor mineral also extracted from the lease area simultaneously.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	58325	20810	Violation pointed out under rule 11(1) of MCDR 2017

I/8409/2023

3c	Recovery of sailable/usable mineral from ROM production	75%	75%	Recovery of bauxite is almost 75% as envisaged. Laterite is also recovered from the bauxite / laterite zone. Thus mine waste is nominal in Bauxite / laterite zone which appears to be 10-12% of ROM.
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual as well as Mechanised	By manual and by Screening	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Not proposed.	Nil	
3k	Provision of mining machineries in mineral benches	Hydraulic Excavator and dumper combination	As per proposal extraction of mineral carried out with the use of Excavator and dumper combination.	

I/8409/2023

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2.0m bench in mineral , there is no overburden. Beside mineral bench there are proposal of one bench each in weathered sand stone and in ochre of 4.5m and 1.8m height.	As per proposal there is one bench of 2.0m height in mineral Bauxite/laterite , There is no overburden. benches in weatherd sand stone as well as in ochre were also seen as per proposal.	
3m	Total area covered under excavation/pits	6.86 ha	6.6 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.82	1:0.73	
3o	Total area put in use under different heads at the end of year	10.26 ha	9.6 ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 48516 2017-18 48321 2018-19 48300 2019-20 58650 2020-21 58325	2016-17 2017-18 2018-19 2019-20 2020-21	17180 48290 48300 47210 24840
3q	General remarks of inspecting officers on method of mining etc.			Method of mining adopted in mine are as per approved proposals.

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 as there is no top soil.	NA	

I/8409/2023

4b	Location of topsoil, OB and mineral reject dumps	Top soil-No top soil OB - 11900square metre Mineral reject-No proposal	Top Soil -NA OB -Entire OB/Mine waste generated so for generated had been utilised for backfilling purpose. total backfilled area about +4hect area.It is true that over backfilled areas there are mineral stacks covering an area of about 1.02hect Mineral reject-NA	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Not applicable as simultaneous backfilling is in practice.	
4e	Number of active and alive dumps.	Nil	Not applicable as simultaneous backfilling is in practice.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Nil	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Overall OB/waste generated utilised for simultaneous reclamation of mined out area.

Solid Waste Management - Backfilling:

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

I/8409/2023

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction of mineral from mined out area before starting backfilling proposed	Full extraction of mineral from mined out area before starting backfilling adopted
5b	Area under backfilling of mined out area	2.6 ha	2.6 ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Applicable	Nil
5d	Total area fully reclaimed and rehabilitated	3.5hect	2.6 ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Simultaneous reclamation and rehabilitation practice was noticed during inspection.

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	Annual report on PMCP not submitted	Violation pointed out under rule 26(2) of MCDR 2017
6b	Area available for rehabilitation (ha) .	1.3hect	0.84hect	
6c	afforestation done (ha).	1.3hect	0.84hect	
6d	No. of saplings planted during the year	Nil	3000 nos	
6e	Cumulative no .of plants	Nil	6000 approx.	
6f	Any other method of rehabilitation	NA	NA	

I/8409/2023

6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA

I/8409/2023

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	NA	NA	
6q	General remarks of inspecting officers on FMCP compliance and progressive closure operations etc.		The lease is due to expire on 08.12.2024 & the lessee have not submitted the FMCP till date.	Violation pointed out under rule 24(1) of MCDR 2017

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM dispatch done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual as well as screening	As proposed sorting of grade wise mineral carried out by the lessee.	
7c	Different grade of mineral sorted out at mines.	Not proposed	Chemical Grade Bauxite and cement grade bauxite dispatched from the mine.	
7d	Any beneficiation process at mines	NA	NA	Only screening practice is adopted by the lessee.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation aspect is covered by the lessee. Manual / screening practice is adopted by the lessee for grade wise sorting.

Environment:

I/8409/2023

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposed	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	overburden waste rock for backfilling proposed	overburden waste rock used in backfilling	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	overburden waste rock to be used for backfilling	overburden waste rock used in backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	backfilling proposed	backfilling adopted	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Nil	
8g	Survival rate	Not proposed	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around mine area is fair.

Compliance of Rule 45:

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

I/8409/2023

9a	Status of submission of Monthly and Annual returns	MR and AR online submitted.	MR and AR online submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager NARENDRA TRIPATHI Mining Engineer in charge PUSHKAR TRIPATHI Geologist in charge LALIT VISHWAKARMA
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given in AR.	(i) Already exploited & abandoned by opencast (O/C) mining 6.600 0.000 6.600 (ii) Covered under current (O/C) Workings 1.840 0.000 1.840 (iii) Reclaimed/Rehabilitated 2.600 0.000 2.600 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.200 0.000 0.200 (vi) Other Purpose (MINERAL STACKING) 0.200 0.000 0.200 (vii) Work done under progressive mine closure plan during the year 1.450 0.000 1.450
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 3000 nos (ii) Survival rate in percentage 80.00 Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	

I/8409/2023

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Grades (% of Al ₂ O ₃ content) Average Grade Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Cement 13112.821 20780.000 17332.851 16559.970 546.00 (b) Abrasive 0.000 0.000 0.000 0.000 0.00 (c) Refractory 0.000 0.000 0.000 0.000 0.00 (d) Chemical 20005.741 30.000 2321.948 17713.793 875.00
----	-------------------------------------------------------------------	-------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

I/8409/2023

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Grades (% of Al2O3 content) Average Grade Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) Cement 13112.821 20780.000 17332.851 16559.970 546.00 (b) Abrasive 0.000 0.000 0.000 0.000 0.00 (c) Refractory 0.000 0.000 0.000 0.000 0.00 (d) Chemical 20005.741 30.000 2321.948 17713.793 875.00
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs.) 3094321.
9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) DUMPER 15.000 TONNE 2 Non Electrical Opencast WATER TANKER 5000.000 LITRE 1 Non Electrical Opencast

I/8409/2023

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

Date :

(ROBERT SIMON C)

Indian Bureau of Mines