

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

**MCDR inspection REPORT
Ranchi regional office**

Mine file No : BIH/GLA/BX/211/RR0

Mine code : 07BHR32006

- (i) Name of the Inspecting : **S011**) **SALIL SANDIP KUJUR**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Pradeep Kumar, Geo
Official with
Designation
- (iv) Date of Inspection : 14/09/2022
- (v) Prev.inspection date : 15/03/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHIRODIH (31.42)**
- (b) **Registration NO.** : **IBM/1266/2011**
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : JHARKHAND
- District : GUMLA
- Village : CHIRODIH
- Taluka : BISHUNPUR
- Post office : JOBHIPAT
- Pin Code :
- FAX No. : NA
- E-mail : mmppsingh_bauxite@yahoo.co..
- Phone : 06526-24017
- (f) **Police Station** : BISHUNPUR
- (g) **First opening date** : 10/04/1984
- (h) **Weekly day of rest** : SAT
2. **Address for correspondance** : AT-CHIRODIH
VILLAGE- JAWADIH, P.O- JOBHIPAT
DIST.- GUMLA, JHARKHAND
3. (a) **Lease Number** : BHR0253
- (b) **Lease area** : 31.35
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 23/03/2034
4. **Mineral worked** : BAUXITE Main

5. Name and Address of the

Lessee : M.M.P. SINGH
 AT/P.O.- LOHARDAGA DIST.
 LOHARDAGA LOHARDAGA
 JHARKHAND
 Phone:06526-24017
 FAX :

Owner : M.M.P.SINGH
 AT-LOHARDAGA PO/DIST-
 LOHARDAGA JHARKHAND
 LOHARDAGA JHARKHAND
 Phone:
 FAX :

Mining Engineer

Name : KRISHNA KANT KAMAL, Full Time
 Qualification : B Tech (Mining)
 Appointment/ : 01/02/2017
 Termination date

Geologist

Name : PRADEEP KUMAR, Full Time
 Qualification : M Sc (Geology)
 Appointment/ : 01/02/2017
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	10/07/1998
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	18/07/2008
		Mining Scheme rule 12 MCDR1988	13/11/2014
		MP review under 17(1) MCR 2016	20/12/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NIL, ALL AREA IS EXPLORED TO G1 CATEGORY
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NIL
1e	Balance reserve as on 01/04/20	916788	916788	NIL
1f	General remarks of inspecting officers on geology, exploration etc	-	-	SATISFACTORY AS THE LEASE IS EXPLORED TO G1 CATEGORY

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	EASTERN SIDE OF THE LEASE	EASTERN SIDE OF THE LEASE	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OB=1 BENCH TOPSOIL=1 BENCH BAUXITE=1 BENCH	OB=1 BENCH TOPSOIL=1 BENCH BAUXITE=1 BENCH	NIL
2c	Stripping ratio or ore to OB ratio	1:0.38	1:0.39	WITHIN LIMIT
2d	Quantity of topsoil generation in m3	6088	2000	NIL
2e	Quantity of overburden generation in m3	18694 M3	1597 M3	WITHIN LIMIT

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	ALL QUANTITY ARE WITHIN THE APPROVED MP.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	AS PER PLAN
3b	Quantity of ROM mineral production proposed	65203MT	9065MT	NIL
3c	Recovery of sailable/usable mineral from ROM production	65203	9065	VIOLATION ISSUED FOR VERY LESS PRODUCTION.
3d	Quantity of mineral reject generation	18594	1597	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	NIL
3f	Quantity of sub grade mineral generation.	NA	NA	NIL
3g	Grade of sub grade mineral generation	NA	NA	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	MANUAL	MANUAL	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	YES	DRILLING AND BLASTING IS DONE WITH JACK HAMMER	NIL

3k	Provision of mining machineries in mineral benches	YES	ONLY COMPRESSOR IS DEPLOYED	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES HEIGHT=3 MTR	HEIGHT=3 MTR AND WIDTH=6 MTR IS MAINTAINED	NIL
3m	Total area covered under excavation/pits	0.157HA	0.157HA	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.38	1:0.39	NIL
3o	Total area put in use under different heads at the end of year	OPEN PIT=0.157 ROADS/OFFICE =.480 PMCP=10.910	OPEN PIT=0.157 ROADS/OFFICE =.480 PMCP=10.910	NIL
3p	Production of ROM mineral during the last five year period as applicable	2019-20=54870 20-21=66010 21-22=65203	2019-20=NIL 20-21=NIL 21-22=9065	mines re-opened from 28-12-2021 and increase as per demand.
3q	General remarks of inspecting officers on method of mining etc.	-	-	NIL

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NIL	NIL, CONCURRENT BACKFILLING IS DONE
4b	Location of topsoil, OB and mineral reject dumps	NIL	NIL	NIL
4c	Number of dumps within lease area and outside of lease area	NIL	BACKFILLING IS IN PROGRESS	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	NIL	NIL

4e	Number of active and alive dumps.	NIL	NIL	NIL
4f	Number of dead dumps.	NIL	NIL	NIL
4g	Number of dumps established.	NA	NA	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	NIL
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	NIL
4j	Number of settling ponds	NA	NA	NIL
4k	Specific comments of inspecting officer on waste dump management	-	-	NIL

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.	yes	mineral is fully excavated from area before starting backfilling	nil
5b	Area under backfilling of mined out area	1.36 ha	1.36ha	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	yes	topsoil is used for plantation	nil
5d	Total area fully reclaimed and rehabilitated	nil	0.75 ha	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	satisfactory.

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	NIL
6b	Area available for rehabilitation (ha) .	1.36HA	1.36HA	NIL, BACKFILLING IS UNDER PROGRESS.
6c	afforestation done (ha).	0.75 HA	0.75 HA	NIL
6d	No. of saplings planted during the year	400 SAPLING	400 SAPLINGS	nil
6e	Cumulative no .of plants	2000	2000 nos	nil
6f	Any other method of rehabilitation	na	na	nil
6g	Cost incurred on watch and care during the year	25000	25000	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.49	0.49ha	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	yes	in progress	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	yes	400 sapling planted	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na	nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	no waste land available	nil	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	nil	nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	na	na	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	carried out as per plan	all data are within limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	no grade wise sorting	nil	nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	na	na	nil
7c	Different grade of mineral sorted out at mines.	nil	nil	nil

7d	Any beneficiation process at mines .	nil	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	topsoil removed and utilized for plantation	topsoil removed and utilized for plantation	nil
8b	Concurrent use or storage of topsoil	concurrent use in practice	topsoil is used concurrently	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	nil	nil	nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	ob/waste rock is used for backfilling and reclamation of the minedout area and plantation.	nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes	mined out area is backfilled with waste /ob and planted with trees	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	400 sapling	400 sapling	nil
8g	Survival rate	50%	50%	nil

8h	Water sprinkling on roads to control airborne dust	na	na	nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	submitted in time	nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge KRISHNA KANT KAMAL 9. Geologist in charge PRADEEP KUMAR	present at the time of inspection	nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.830 6.180 7.010 (ii) Covered under current (O/C) Workings 0.000 0.157 0.157 Reclaimed/Rehabilitated 0.000 0.152 0.152 (iv) Used for waste disposal 0.870 0.490 1.360 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.330 0.150 0.480 (vi) Other Purpose (NONE) 0.000 0.000 0.000 (vii) Work done under progre	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.830 6.180 7.010 (ii) Covered under current (O/C) Workings 0.000 0.157 0.157 Reclaimed/Rehabilitated 0.000 0.152 0.152 (iv) Used for waste disposal 0.870 0.490 1.360 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.330 0.150 0.480 (vi) Other Purpose (NONE) 0.000 0.000 0.000 (vii) Work done under progre	nil
9d	Scrutiny of Annual return on afforestation	4.4 (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 400 50 (ii) Survival rate in percentage 50.00 90	4.4 (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 400 50 (ii) Survival rate in percentage 50.00 90	nil

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	5145 mt	5145 mt	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	500	500 found to be correct	nil
9h	Scrutiny of Annual return on fixed assets	nil	only land was purchased long back. machine(compressor) used is on hire	nil
9k	Scrutiny of Annual return on mining machineries	AIR COMPRESSOR 120.000 CUM/MN 1 Non Electrical	AIR COMPRESSOR 120.000 CUM/MN 1 Non Electrical	nil

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)	27/09/2022			

Date :
(SALIL SANDIP KUJUR)

Indian Bureau of Mines