

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

**MCDR inspection REPORT
Ranchi regional office**

Mine file No : BIH/GML/BX/215/RR0

Mine code : 07BHR32001

- (i) Name of the Inspecting : **S011**) **SALIL SANDIP KUJUR**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Vishal Mahendru, Lessee
Official with
Designation
- (iv) Date of Inspection : 13/09/2022
- (v) Prev.inspection date : 10/08/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMTIPANI (26.3)**
- (b) **Registration NO.** : **IBM/1237/2011**
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : JHARKHAND
- District : GUMLA
- Village : AMTIPANI
- Taluka : BISHUNPUR
- Post office : JOBHIPAT
- Pin Code : 835207
- FAX No. : N.A.
- E-mail : N.A.
- Phone : 06526-224076
- (f) **Police Station** : BISHUNPUR
- (g) **First opening date** : 17/08/1985
- (h) **Weekly day of rest** : THU
2. **Address for** : VILL-AMTIPANI
correspondance BISHNPUR
DIST-GUMLA
3. (a) **Lease Number** : BHR0245
- (b) **Lease area** : 26.3
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 31/07/2005
4. **Mineral worked** : BAUXITE Main

5. Name and Address of the

Lessee : VISHAL MAHENDRU (LEGAL HEIR)
 PALMERGANJ, AT & PO -
 LOHARDAGA LOHARDAGA
 JHARKHAND
 Phone:09431118144
 FAX :

Owner : VISHAL MAHENDRU, LEGAL HEIR
 PALMERGANJ, AT & PO -
 LOHARDAGA LOHARDAGA
 JHARKHAND
 Phone: 09431118144
 FAX :

Mining Engineer

Name : MANOJ KUMAR SINGH, Full Time
 Qualification : B.TECH(MINING ENGG)
 Appointment/ : 28/06/2017 31/10/2021
 Termination date

Mining Engineer

Name : Gangadhar Tiwari, Full Time
 Qualification : AMIE(Mining Engineering)
 Appointment/ : 01/11/2021
 Termination date

Geologist

Name : ATANU KUMAR GUPTA, Full Time
 Qualification : M.Sc.(GEO)
 Appointment/ : 01/02/2018
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	25/08/2000
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	18/07/2008
		Modif.of approved Mining Plan	31/01/2013
		Mining Scheme rule 12 MCDR1988	04/04/2013
		MP review under 17(1) MCR 2016	29/09/2016
		MP review under 17(1) MCR 2016	18/09/2020
		MP modif under 17(3) MCR 2016	31/03/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	nil	nil	area is fully explored
1b	Exploration over lease area for geological axis 1 or 2	5 cores holes 75 meterage(50m x 50m grid)	(1) 25 x25 grid 29 meterage of 5 core drilling. (2) 100 x 100 grid pattern 29 meterage 5 holes	Holes drilled earlier.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	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	345603 MT	345603 MT	nil
1f	General remarks of inspecting officers on geology, exploration etc	-	-	the area is fully explored in G1 category.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Q3: N2585500-2585700; E221300-221400 Q5:N2585000-2585200 E221300-221500	Q3: N2585500-2585700; E221300-221400 Q5:N2585000-2585200 E221300-221500	as per plan
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches	Separate benches are maintained top soil=1 bench ob=1 bench height - 3 m bauxite=1 bench - 6 m	Observed that height of bench is more than the proposed. Violation issued.
2c	Stripping ratio or ore to OB ratio	1:0.90	1:0.80	nil
2d	Quantity of topsoil generation in m3	13091	nil	nil

2e	Quantity of overburden generation in m3	30291	2500	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2(Q 3 & Q5)	2(Q 3 & Q5) are in operation	nil
3b	Quantity of ROM mineral production proposed	80000 MT	49935	Violation issued for less production.
3c	Recovery of sailable/usable mineral from ROM production	33333 m3	49935 T	within limit
3d	Quantity of mineral reject generation	8334 m3	8334 m3	nil
3e	Grade of mineral rejects generation and threshold value declared.	< 30% Al2 O3	< 30% Al2 O3	nil
3f	Quantity of sub grade mineral generation.	-	4000 mt	nil
3g	Grade of sub grade mineral generation	30% Al2 O3	30% Al2 O3	nil
3h	Manual / Mechanised method adopted for segregating from ROM	manual	manual mining is adopted	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	yes drilling and blasting is done.	nil
3k	Provision of mining machineries in mineral benches	yes	Back Hoe - 03 Blast Host Drill - 01 Dumper - 02 Air Compressor - 01 Rock Drill - 02 Generator - 01 Water Tanker - 02	nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height=3 mtr, width =3 mtr	height=6 mtr at Q3 width=5 mtr height=2 mtr width=7 mtr at q5	violation issued for bench height at Q3.
3m	Total area covered under excavation/pits	3.2190 ha	3.2190 ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.90	1: 0.80	nil
3o	Total area put in use under different heads at the end of year	pit=2.85 ha roads=1.2 ha plantation=2.25 ha misc=1 ha	pit=2.85 ha roads=1.2 ha plantation=2.25 ha misc=1 ha	nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18= 100578 MT 2018-19= 108680 MT 2019-20=140806 MT 2020-21=77207 MT 2021-22= 80000 MT	2017-18= 79886 MT 2018-19=31578 M T 2019-20=42110 MT 2020-21=47835 MT 2021-22= 49935 MT	nil
3q	General remarks of inspecting officers on method of mining etc.	-	-	nil

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate stacking	Separate stacking is done	nil
4b	Location of topsoil, OB and mineral reject dumps	TopSoil:N2585400-N2585500 E:221300-E 221400 Sub grade Mineral: N2585000-N2585100 E221400-E 221550 DUMP 1: E221100-E 221200 N 2585600-N2585700 DUMP 2: E221300-E221400 N2585400-N2585500 DUMP 3: E221200-E221400 N2585000-N2585100 DUMP 4:E221214-E221230 N2585608-N2585633	TopSoil:N2585400-N2585500 E:221300-E 221400 Sub grade Mineral: N2585000-N2585100 E221400-E 221550 DUMP 1: E221100-E 221200 N 2585600-N2585700 DUMP 2: E221300-E221400 N2585400-N2585500 DUMP 3: E221200-E221400 N2585000-N2585100 DUMP 4:E221214-E221230 N2585608-N2585633	nil
4c	Number of dumps within lease area and outside of lease area	Total 4 Nos of dumps + 01 sub grade Mineral+01 top soil dump. One is under backfilling (Maximum height 4 to 6 meters)	Total 4 Nos of dumps + 01 sub grade Mineral+01 top soil dump. One is under backfilling (Maximum height 4 to 6 meters)	nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	For O/C workings: Sub grade minerals stacked away from pit limit on separate area ad details given above.	Sub grade minerals stacked away from pit limit on separate area ad details given above. Since depth of workings is limited to 14 to 16 miters, hence it will not effect stability of dump or working quarries.	nil

4e	Number of active and alive dumps.	D3 is utilizing for back filling	D3 is utilizing for back filling	nil
4f	Number of dead dumps.	3	3	nil
4g	Number of dumps established.	Utilizing during back filling	One in process	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes garland drains are made	nil
4i	Length of Retaining wall or garland drain all along dumps	Length of Retaining wall 250 m and Garland drain 150 m	Length of Retaining wall 250 m and Garland drain 150 m	nil
4j	Number of settling ponds	pit is used as water settling pond	as per plan	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	BACKFILLING IS UNDER PROGRESS	BACKFILLING IS UNDER PROGRESS IN AREA WHERE BAUXITE IS COMPLETELY REMOVED.
5b	Area under backfilling of mined out area	0.93ha	0.93ha	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed and in progress	AS Proposed and in progress	NIL
5d	Total area fully reclaimed and rehabilitated	2.56 ha	2.56 ha	NIL

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	SATISFACTORY
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Progressive Mine Closure 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) .	0.1 ha.	0.23ha	nil
6c	afforestation done (ha).	0.1 ha	0.23 ha	nil
6d	No. of saplings planted during the year	600	800 (600 inside +200 outside)	nil
6e	Cumulative no .of plants	Backfilled and used for reclamation, Proposed 1250 sampling	Backfilled and used for reclamation.Plantation(S amplings) done:3010.	nil
6f	Any other method of rehabilitation	na	na	nil
6g	Cost incurred on watch and care during the year	Proposed:Rs:34 750	27500.00	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	yes(0.10)ha	0.23 has is reclaimed	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	backfilling by OB= 45000 mt	45000 mt is backfilled	nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	afforestation in backfilled area=600 saplings	planted=600 saplings	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	na	na	nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	nil	no waste land available	nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	na	na	nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	nil	no waste land	no waste land available with the lessee.
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	monitoring is done	all reports are within limits
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NIL	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NIL	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)	YES	TOP SOIL IS USED FOR PLANTATION	NIL
8b	Concurrent use or storage of topsoil	YES	TOPSOIL IS USED CONCURRENTLY IN BACKFILLED AREA FOR PLANTATION	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	LAND RECLAIMED IS PLANTED WITH NATIVE TREES	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	CONCUIRRENT BACKFILLING	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	(a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 600 200	(a) Within lease area (b) Outside lease area (i) Number of trees planted during the year a) 600 b) 200	NIL
8g	Survival rate	60%	60%	nil
8h	Water sprinkling on roads to control airborne dust	yes	water tanker is used for supressing the dust.	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 Gangadhar Tiwary 9. Geologist in charge Atanu Kumar Gupta	Mining Engineer in charge Gangadhar Tiwary 9. Geologist in charge Atanu Kumar Gupta present during 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 0.000 3.070 3.070 (ii) Covered under current (O/C) Workings 0.000 3.019 3.019 (iii) Reclaimed/Rehabilitated 0.000 2.970 2.970 (iv) Used for waste disposal 0.000 1.267 1.267 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.296 0.296 (vi) Other Purpose (GREEN BELT) 0.000 2.160 2.160 (vii) Work done under	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 0.000 3.070 3.070 (ii) Covered under current (O/C) Workings 0.000 3.019 3.019 (iii) Reclaimed/Rehabilitated 0.000 2.970 2.970 (iv) Used for waste disposal 0.000 1.267 1.267 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.296 0.296 (vi) Other Purpose (GREEN BELT) 0.000 2.160 2.160 (vii) Work done under	nil
9d	Scrutiny of Annual return on afforestation	4.4 (a) Within lease area (i) Number of trees planted during the year 600 200 (ii) Survival rate in percentage 60.00 60	4.4 (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 600 200 (ii) Survival rate in percentage 60.00 60	found correct.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil rejects	nil	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil	nil	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	603.48	rs 603.48	nil

9h	Scrutiny of Annual return on fixed assets	Description As at the beginning of the year Additions during the Year Sold or discarded during the year Depreciation during the year Net closing Balance (2+3)-(4+5) Estimated market value (i) Land 0 0 0 0 0 0 (ii) Building Industrial 0 0 0 0 0 0 Residential 0 0 0 0 0 0 (iii) Plant and Machinery including transport equipment 698018 319568 0 152638 864948 864948 (iv) Capitalised Expenditure such as pre-production exploration, development, major overhaul and repair to machinery etc. (As prescribed und	Description As at the beginning of the year Additions during the Year Sold or discarded during the year Depreciation during the year Net closing Balance (2+3)-(4+5) Estimated market value (i) Land 0 0 0 0 0 0 (ii) Building Industrial 0 0 0 0 0 0 Residential 0 0 0 0 0 0 (iii) Plant and Machinery including transport equipment 698018 319568 0 152638 864948 864948 (iv) Capitalised Expenditure such as pre-production exploration, development, major overhaul and repair to machinery etc. (As prescribed und	nil
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9k	Scrutiny of Annual return on mining machineries	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 1 Non Electrical Opencast BACK HOE 0.240 CUM 2 Non Electrical Opencast BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast DUMPER 24.000 TONNE 2 Non Electrical Opencast AIR COMPRESSOR 7.500 CUM/MN 1 Non Electrical Opencast ROCK DRILL (NONELEC.) 45.000 MM 2 Non Electrical Opencast GENERATOR (DIESEL) 7.500 KWH 1 Non Electrical Opencast WATER TANKER 2	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 1 Non Electrical Opencast BACK HOE 0.240 CUM 2 Non Electrical Opencast BLAST HOST DRILL 100.000 MM 1 Non Electrical Opencast DUMPER 24.000 TONNE 2 Non Electrical Opencast AIR COMPRESSOR 7.500 CUM/MN 1 Non Electrical Opencast ROCK DRILL (NONELEC.) 45.000 MM 2 Non Electrical Opencast GENERATOR (DIESEL) 7.500 KWH 1 Non Electrical Opencast WATER TANKER 2	nil
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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
MCDR17	Rule 11(1)	23/09/2022			

Date :
(SALIL SANDIP KUJUR)

Indian Bureau of Mines