

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/BXT/KPT/MCDR-2/BBS

Mine code : 07ORI09003

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Pratap Kumar Patra, Agent
Official with
Designation
- (iv) Date of Inspection : 15/10/2017
- (v) Prev.inspection date : 21/05/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MALIPARBAT (268.11 HA)**
- (b) **Registration NO.** : **IBM/935/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KORAPUT
Village : POTTANGI
Taluka : ALIGAON KANKARAMBA
Post office :
Pin Code :
FAX No. : 2360398
E-mail : hindalco@adityabirla.com
Phone : 2360406
- (f) Police Station : Similiguda
- (g) First opening date : 15/06/2008
- (h) Weekly day of rest : SUN
2. Address for : VILL- KAKADAMBA,ALIGAON
correspondance PO-POTANGI
DIST-KORAPUT
3. (a) Lease Number : ORI0793
(b) Lease area : 268.11
(c) Period of lease : 20
(d) Date of Expiry : 13/11/2027
4. Mineral worked : BAUXITE Main

Owner : M/S HINDALCO INDUSTRIES LTD
J-6 JAYADEV VIHAR
BHUBANESWAR -13 KHURDA
ORISSA
Phone:
FAX :

Agent : Pratap Patra
SatyaNagar College Road
Semiliguda KORAPUT ORISSA
Phone: 2360406
FAX : 2360398

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 15/03/2013
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	22 boreholes proposed	Nil	Mine is not in operation since the year 2013-14 due to law and order problem.
1b	Exploration over lease area for geological axis 1 or 2	22 boreholes proposed during the year 2016-17	Nil	Mine is not in operation due to law and order problem.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/s Synergy Geotech Ltd, Wardha Road, Nagpur	Nil	Mine is not in operation due to law and order problem.
1d	Balance area to be explored to bring Geological axis in 1 or 2	253.86 ha is needs to be explored	Nil.	Mine is not in operation due to law and order problem.
1e	Balance reserve as on 01/04/20	As per the approved mining plan on 15.03.2013 the bauxite reserves are 10.624 million tonnes and resources are 4.442 million tonnes.	after depletion of reserves over the period of time the reserves and resources of bauxite as on 01.04.2017 are 10.624 million tonnes and resources are 4.442 million tonnes	Total reserves and reosurces are 15.066 million tonnes
1f	General remarks of inspecting officers on geology, exploration etc	No specific comments to offer.	Boreholes were proposed in exploration proposal but couldn't be carried out.	proposal for exploration given in review of mining but couldn't be carried out due to mine is not in operation due to law and order problem.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	quarry-1 is proposed in the central part of the lease area.	Nil	Mine is not in operation due to law and order problem.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	top soil generated will be stacked by scrapping. seperate benches for overburden and buaxite ore are proposed of 6 m height.	Nil	Mine is not in operation due to law and order problem.
2c	Stripping ratio or ore to OB ratio	1:0.25 t:cu.m.	Nil	Mine is not in operation due to law and order problem.
2d	Quantity of topsoil generation in m3	18000 cu.m.	Nil	Mine is not in operation due to law and order problem.
2e	Quantity of overburden generation in m3	94000 cu.m.	Nil	Mine is not in operation due to law and order problem.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	quarry-1 is proposed for production	Nil	Mine is not in operation due to law and order problem.
3b	Quantity of ROM mineral production proposed	0.9 million tonnes of bauxite.	Nil	Mine is not in operation due to law and order problem.

3c	Recovery of sailable/usable mineral from ROM production	100%	Nil	Mine is not in operation due to law and order problem.
3d	Quantity of mineral reject generation	No proposal.	Nil	Mine is not in operation due to law and order problem.
3e	Grade of mineral rejects generation and threshold value declared.	+30%-40%Al2O3	+30%-40%Al2O3	Mine is not in operation due to law and order problem.
3f	Quantity of sub grade mineral generation.	45000 tonnes	Nil	Mine is not in operation due to law and order problem.
3g	Grade of sub grade mineral generation	+30-40% Al2O3	Nil	Mine is not in operation due to law and order problem.
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Mine is not in operation due to law and order problem.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	Mine is not in operation due to law and order problem.
3j	Provision of drilling and blasting in mineral benches	drilling & blasting proposed of dia 100mm explosives of ANFO with intitation of delay detonators.	Nil	Mine is not in operation due to law and order problem.
3k	Provision of mining machineries in mineral benches	Excavtor: 1.2 cu.m., dumpers: 10 tonnes	Nil	Mine is not in operation due to law and order problem.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m height benches proposed in OB and mineral.	Nil.	Mine is not in operation due to law and order problem.
3m	Total area covered under excavation/pits	24.9 ha.	1.7 ha	Mine is not in operation due to law and order problem.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.25 t:cu.m.	Nil	Mine is not in operation due to law and order problem.
3o	Total area put in use under different heads at the end of year	Total: 45.72 Ha, excavation: 24.9 Ha, dump: 6.5 ha, infra: 2 ha, road: 2.5 ha, others: 5 ha, storage: 4 ha	excavation: 1.7 ha, dump: 1.92 ha, infra:0.5 ha, others: 0.37 Ha, Total: 4.49 ha	Mine is not in operation due to law and order problem.
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 591675 tonnes 2013-14: 750006 tonnes 2014-15: 849996 tonnes 2015-16: 900000 tonnes 2016-17: 900000 tonnes	2012-13: Nil 2013-14: 450 tonnes 2014-15: Nil 2015-16: Nil 2016-17: Nil	Mine is not in operation due to law and order problem.
3q	General remarks of inspecting officers on method of mining etc.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	seperate dumping for top soil, OB and mineral rejects proposed.	Nil	Mine is not in operation due to law and order problem.

4b	Location of topsoil, OB and mineral reject dumps	proposed in the northern side of the lease area.	Nil	Mine is not in operation due to law and order problem.
4c	Number of dumps within lease area and outside of lease area	1 within lease area	1 within lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within the UPL temporary.	Nil	Mine is not in operation due to law and order problem.
4e	Number of active and alive dumps.	one waste dump	one waste dump	Mine is not in operation due to law and order problem.
4f	Number of dead dumps.	No proposal	Nil	Mine is not in operation due to law and order problem.
4g	Number of dumps established.	No proposal.	Nil	Mine is not in operation due to law and order problem.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed.	Nil	Mine is not in operation due to law and order problem.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Mine is not in operation due to law and order problem.
4j	Number of settling ponds	one	Nil	Mine is not in operation due to law and order problem.
4k	Specific comments of inspecting officer on waste dump management	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	Nil	Mine is not in operation due to law and order problem.
5b	Area under backfilling of mined out area	Nil	Nil	Mine is not in operation due to law and order problem.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	proposed.	Nil	Mine is not in operation due to law and order problem.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Mine is not in operation due to law and order problem.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.

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).	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Mine is not in operation due to law and order problem.
6c	afforestation done (ha).	1 Ha	Nil	Mine is not in operation due to law and order problem.
6d	No. of saplings planted during the year	2500	Nil	Mine is not in operation due to law and order problem.

6e	Cumulative no .of plants	Nil	Nil	Mine is not in operation due to law and order problem.
6f	Any other method of rehabilitation	Nil	Nil	Mine is not in operation due to law and order problem.
6g	Cost incurred on watch and care during the year	No proposal	Nil	Mine is not in operation due to law and order problem.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Mine is not in operation due to law and order problem.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Mine is not in operation due to law and order problem.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Nil	Mine is not in operation due to law and order problem.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Mine is not in operation due to law and order problem.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil	Mine is not in operation due to law and order problem.

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	Mine is not in operation due to law and order problem.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Mine is not in operation due to law and order problem.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Mine is not in operation due to law and order problem.
6p	Compliance of environmental monitoring (core zone and buffer zone)	quaretly proposed.	Nil	Mine is not in operation due to law and order problem.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed.	Nil	Mine is not in operation due to law and order problem.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Nil	Mine is not in operation due to law and order problem.
7c	Different grade of mineral sorted out at mines.	Yes proposed.	Nil	Mine is not in operation due to law and order problem.

7d	Any beneficiation process at mines .	No proposal	Nil	Mine is not in operation due to law and order problem.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed.	Nil	Mine is not in operation due to law and order problem.
8b	Concurrent use or storage of topsoil	Proposed.	Nil	Mine is not in operation due to law and order problem.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	Nil	Mine is not in operation due to law and order problem.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	Mine is not in operation due to law and order problem.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	Mine is not in operation due to law and order problem.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Nil	Nil	Mine is not in operation due to law and order problem.
8g	Survival rate	Nil	Nil	Mine is not in operation due to law and order problem.
8h	Water sprinkling on roads to control airborne dust	proposed.	Nil	Mine is not in operation due to law and order problem.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted	Submitted	Submitted in stipulated time period.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining enginner: 0 geologist: 0, surveyor: 1	surveyor:1, Mining engineer:0, geologist:0	Mine is not in operation due to law and order problem.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	excvation: 1.7 ha, dump: 1.92 ha, infra:0.5 ha, others: 0.37 Ha, Total: 4.49 ha	more or less as per AR.	Mine is not in operation due to law and order problem.
9d	Scrutiny of Annual return on afforestation	Nil	Nil	Mine is not in operation due to law and order problem.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Mine is not in operation due to law and order problem.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production is Nil and clsoing stock is also Nil	found to be in order.	Mine is not in operation due to law and order problem.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.	Mine is not in operation due to law and order problem.
9h	Scrutiny of Annual return on fixed assets	fixed assets: 20000000	fixed assets: 20000000	Mine is not in operation due to law and order problem.
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Mine is not in operation due to law and order problem.

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 :

(RAMKISHAN R)

Indian Bureau of Mines