

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

**Review and updation of Mining Plan REPORT**

**Goa regional office**

**Mine file No :** MAH/KLP/Bx - 2/GOA

**Mine code :** 07MSH13002

- (i) Name of the Inspecting : **K07** ) **KRISHNENDU CHATTERJEE**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. B.A.PATIL, TQP AND A.K.SONI, LESSEE'S REPRESE  
Official with  
Designation
- (iv) Date of Inspection : 23-DEC-20
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KASARSADA**
- (b) **Registration NO.** : **IBM/935/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : KOLHAPUR
- Village : BHOGOLI
- Taluka : CHANDGAD
- Post office : CHANDGAD
- Pin Code : 416509
- FAX No. : 02320-215301
- E-mail : mainak\_c@adityabirla.com
- Phone : 02320-202072
- (f) Police Station : Chandgad
- (g) First opening date : 21-MAY-68
- (h) Weekly day of rest : SUN
2. Address for : Durgamanwadi Bauxite Mine  
correspondance P.O.-RADHANAGARI  
Kolhapur-416212
3. (a) Lease Number : MSH0135
- (b) Lease area : 102.97
- (c) Period of lease : 50
- (d) Date of Expiry : 31-MAR-30
4. Mineral worked : LATERITE Associated  
BAUXITE Main

## 5. Name and Address of the

Lessee : HINDALCO INDUSTRIES LIMITED  
 Ahura Centre, 1st Floor, B  
 wing, MC Rd Andheri  
 (East), Mumbai MAHARASHTRA  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone: 022-66917000  
 FAX : 022-66907001

Owner : A.K.AGARWALA  
 AHURA CENTRE, 1ST FLOOR, B  
 WING, MC ROAD, ANDHERI  
 (EAST), MUMBAI MAHARASHTRA  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone: 022-66917000  
 FAX : 022-66907001

Agent : MAINAK CHAKRABORTY  
 HINDALCO INDUSTRIES LTD  
 P.O. RADHANAGARI, KOLHAPUR-  
 MAHARASHTRA KOLHAPUR  
 MAHARASHTRA  
 Phone: 02321-202133  
 FAX :

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	05-FEB-98
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	03-NOV-03
		Modif.approved Mining Scheme	30-MAY-07
		Mining Scheme rule 12 MCDR1988	23-JUL-08
		Mining Scheme rule 12 MCDR1988	16-APR-13
		MP modif under 17(3) MCR 2016	13-JUL-16

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2019-20	Nil	
1b	Exploration over lease area for geological axis 1 or 2	G1	G1: 56.14 Ha. G2: Nil	Non-Mineralized area: 46.83 Ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Expenditure incurred Rs. 25 lakh against exploration so far.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1	G1 achieved.	
1e	Balance reserve as on 01/04/20		Rotal reserve 506,360 tonnes of Bauxite (UNFC Cat. 111)	As on 01.04.2020; Grade +30% Al <sub>2</sub> O <sub>3</sub> .
1f	General remarks of inspecting officers on geology, exploration etc			Entire mineralized area was explored by the lessee under G1 level by drilling with 152 nos. of DTH boreholes with cumulative meterage of 1266m.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No development proposals given during 2019-20.	Nil	No mine production reported during last 9 years.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal for separate benches for OB and top soil.	Nil	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m3	No proposal	Nil	

2e	Quantity of overburden generation in m3	No proposal	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine is remained closed for want of forest clearance since 03.10.2011; notice of temporary discontinuance submitted to IBM dated 28.03.2012.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed in Sy. No. 87 (part) and in Sy. No. 17 (part).	Single pit in in Sy. No. 87 (part) and in Sy. No. 17 (part).	
3b	Quantity of ROM mineral production proposed	No proposal	Nil	
3c	Recovery of sailable/usable mineral from ROM production	No proposal	Nil	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed.	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil
3j	Provision of drilling and blasting in mineral benches	No proposal	Nil
3k	Provision of mining machineries in mineral benches	No proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m bench height proposed	Average height 5 to 6m was maintained
3m	Total area covered under excavation/pits	52.51 Ha. upto the end of Mod. MP period ending 2020-21.	43.85 Ha. so far
3n	Ore to OB ratio for the pit/mine during the year.	No proposal	Nil
3o	Total area put in use under different heads at the end of year	Area under mining: 52.51 Ha. Dump: 3.86 Ha. Infrastructure : 1.04 Ha. Road: 0.93 Ha	Area under mining: 43.85 Ha. Dump: 3.86 Ha. Infrastructure: 1.04 Ha. Road: 0.93 Ha.
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 152,566 2016-17: 229,006 2017-18: 252,723 2018-19: 25,542 2019-20: Nil ( in tonnes)	No production is reported from 2015-16 to 2019-20.

3q General remarks of inspecting officers on method of mining etc.

Mine is remained closed for want of forest clearance since 03.10.2011; notice of temporary discontinuance submitted to IBM dated 28.03.2012.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for top soil or waste handling	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	4 nos. of waste dumps at central block.	Nil	Old waste dumps.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside UPL	Located outside UPL	
4e	Number of active and alive dumps.	No proposal	Nil	
4f	Number of dead dumps.	4 nos.	4 nos.	
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Total 264 m upto the end of Mod. MP period ending 2020-21.	Nil	
4j	Number of settling ponds	No proposal	1 no.	Area covered by settling pond 1.5 Ha.

4k	Specific comments of inspecting officer on waste dump management			Mine is remained closed for want of forest clearance since 03.10.2011.
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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.	Proposed within mineral exhausted part of the pit.	Nil	
5b	Area under backfilling of mined out area	9.65 Ha. during the Mod. Mining plan period ending 2020-21.	Nil	No mining operation due to non-availability of FC.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No top soil generation	
5d	Total area fully reclaimed and rehabilitated	9.65 Ha.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling proposals were not achieved due to non-availability of FC. Mine was remained closed during Mod. Mining Plan period (2016-17 to 2020-21).

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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).	Proposed.	Not Submitted for F.Y. 2019-20.	Mine is remained closed for want of forest clearance since 03.10.2011

6b	Area available for rehabilitation (ha) .	No proposal	Nil
6c	afforestation done (ha).	3.0 Ha. proposed	Nil
6d	No. of saplings planted during the year	7000 nos.	Nil
6e	Cumulative no .of plants	Not specified.	Apprx. 10, 000 nos. within ML.
6f	Any other method of rehabilitation	No proposal	Nil
6g	Cost incurred on watch and care during the year	No proposal	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliances were not achieved due to non-availability of FC. Mine was remained closed during Mod. Mining Plan period (2016-17 to 2020-21).

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed for captive alumina plant located at Belgaum, Karnataka.	Nil during 2019-20.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Nil	
7c	Different grade of mineral sorted out at mines.	Proposed for +30% Al2 O3	Nil	

7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM having quality of +30% Al <sub>2</sub> O <sub>3</sub> and size 10 to 125mm was proposed for dispatch to captive alumina plant located at Belgaum, Karnataka.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed.	No top soil generation.	
8b	Concurrent use or storage of topsoil	Proposed for backfilling.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed within mineral exhausted part of the pit.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed.	Nil	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Apprx. 10, 000 nos. saplings were planted within ML.	
8g	Survival rate	Not specified	70 to 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	No change.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area is very good. Mine is remained closed during Mod. Mining Plan period (2016-17 to 2020-21) due to lack of Forest Clearances.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Feb. 2021 & A.R. Submitted up to 2019-2020	Submitted within time limit.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Mining Engineer, Geologist and Manager are not appointed.	Mine is remained closed for want of forest clearance since 03.10.2011; notice of temporary discontinuance submitted to IBM dated 28.03.2012.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Furnished as Nil	Area under mining: 43.85 Ha. Dump: 3.86 Ha. Infrastructure: 1.04 Ha. Road: 0.93 Ha.	Lessee advised to correct the land use patter in the Annual Return.
9d	Scrutiny of Annual return on afforestation	Nil	Nil	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: Nil Graded ore closing Stock of below 40% Al <sub>2</sub> O <sub>3</sub> Bauxite 103,822 tonnes	Actual was also same at that time.	Nil dispatch from mine head was reported during 2019-20.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	No dispatch from mine head during 2019-20.	
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 82,539/-	Nil	
9k	Scrutiny of Annual return on mining machineries	Nil	Mining machineries are not available in the ML area.	

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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

**Date :**

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines