

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

**MCDR inspection REPORT**

**Goa regional office**

Mine file No : MAH/KLP/BX-14/GOA

Mine code : 07MSH13017

- (i) Name of the Inspecting : KQ4 ) DR. Y.G.KALE  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : SHRI. V.K.S.CHAUHAN, MINING ENGINEER AND MINES MANAGE  
Official with  
Designation
- (iv) Date of Inspection : 21/09/2017
- (v) Prev.inspection date : 03/02/2016

**PART-I : GENERAL INFORMATION**

1. (a) Mine Name : DHANGARWADI
- (b) Registration NO. : IBM/935/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MAHARASHTRA  
District : KOLHAPUR  
Village : DHANGARWADI  
Taluka : DHANGARWADI  
Post office : SHAHUWADI  
Pin Code : 416519  
FAX No. : 02320-215301  
E-mail : mainak\_c@adityabirla.com  
Phone : 02320-202072
- (f) Police Station : SHAHUWADI
- (g) First opening date : 27/04/2009
- (h) Weekly day of rest : SUN
2. Address for : HINDALCO INDUSTRIES LIMITED  
correspondance : DHANGARWADI MINES, SHAHUWADI 416 212  
KOLHAPUR DISTRICT, MAHARASHTRA
3. (a) Lease Number : MSH0371
- (b) Lease area : 41.8
- (c) Period of lease : 30
- (d) Date of Expiry : 04/05/2038
4. Mineral worked : BAUXITE

*Deemed extension of lease upto  
04.05.2038 has been granted by Govt.  
of Maharashtra on 2nd march 2016.*

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 :

## Mining Engineer

Name : V.K.S. Chauhan, Full Time  
 Qualification : B.Tech. Mining  
 Appointment/ : 01/04/2013  
 Termination date

## Geologist

Name : U, V. PAWAR, Full Time  
 Qualification : M.Sc. Geology  
 Appointment/ : 26/03/2012  
 Termination date

## Manager

Name : VIJAYKUMAR SINGH CHAUHAN  
 Qualification : B. Tech. Mining with FCC  
 Appointment/ : 01/04/2013  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Modif.of approved Mining Plan 25/03/2009  
 Mining Scheme rule 12 MCDR1988 02/12/2013  
 Modif.approved Mining Scheme 12/03/2015  
 MP modif under 17(3) MCR 2016 08/07/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No proposals were made in the last approved document.
1b	Exploration over lease area for geological axis 1 or 2	Nil 3 pits (9760m2) in Float area	3 pits (9760m2)	Previously four borehole were drilled during May 2016 to a total depth of 60mtrs and two boreholes were drilled in the year 2017-18. Having maximum and minimum depth of 16 and 13 mtrs.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Rs, 0.50 Lakhs and exploration is carried out by M/s Rocktech Engineers.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Two boreholes were drilled in the year 2017-18.	
1e	Balance reserve as on 01/04/20		Probable mineral Reserves (121)- 318796 tonnes Probable mineral Reserves (122)-27368 tonnes	Entire mineralised area has been explored under G1 and g2 category. Two DTH boreholes were proposed in 2017-18 which have been completed and Form 'J' has been received in May 2017.
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	N-16o54'26" to N-16o 54'33" and E-73o50'28" to 73o54'42"	Working has been carried out as per the proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Bauxite-01 Topsoil-01 OB-01	Benches were made as per the proposal.
2c	Stripping ratio or ore to OB ratio	1:1.5	1:0.58
2d	Quantity of topsoil generation in m3	Insitu-35683.28 and in float ore 12938.233	45398
2e	Quantity of overburden generation in m3	134383 in Insitu + 12938 in Float	163904
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The development is commensurate with production. Bauxite deposit is such that no much development is required. The development work is carried out more than proposed in Mining Plan.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	382519 tonnes	362271 tonnes.	
3c	Recovery of sailable/usable mineral from ROM production	80%	82%	

3d	Quantity of mineral reject generation	-	Nil	No mineral reject is handled during the year 2016-17.
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.		82500 tonnes	
3g	Grade of sub grade mineral generation		Al2O3- 44% SiO2-10-12%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	100mm dia drill hole m/c used and NONEL technique used for blasting.
3k	Provision of mining machineries in mineral benches	Yes	Yes	HEMM deployed in mineral benches as per the proposal.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Separate benches form as per MP/SOM.
3m	Total area covered under excavation/pits	23.59 Ha	18.00 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.5	1:0.58	

3o	Total area put in use under different heads at the end of year	24.84 Ha	24.85 Ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 382519 tonnes 2015-16 501043 tonnes 2014-15 452586 tonnes 2013-14 550000 tonnes 2012-13 600000 tonnes 2011-12-316100 tonnes	2016-17 362271 tonnes 2015-16 389737 tonnes 2014-15 406500 tonnes 2013-14 429797 tonnes 2012-13 338705 tonnes 2011-12 1833 tonnes

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

In general the  
mining practice  
adopted is  
scientific and  
systematic as per  
the proposals made  
in the mining  
plan. Conservation  
of minerals is  
being practised by  
working in Insitu,  
Float and dumps  
and blending the  
mineral to suit  
the required  
grade.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		The soil which is generated during mining operation is utilized for réclamation of the mined out area.	
4b	Location of topsoil, OB and mineral reject dumps		No external dumping is made during 2016-17.	

