INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/GLA/BX/221/RRO Mine code : 07BHR32008

(i) Name of the Inspecting : SQO1) B K SINGH

Officer and ID No.

(ii) Designation : Assistant Mining Geologis

(iii) Accompaning mine : Sri K S Singh, ME: Sri A K Behra Geologist

Official with Designation

(v)

(iv) Date of Inspection : 11/01/2017

Prev.inspection date : 23/08/2016

PART-I : GENERAL INFORMATION

. (a) Mine Name : GURDARI (1039.5)

(b) Registration NO. : IBM/935/2011

(c) Category : A Fully Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : JHARKHAND
District : GUMLA

Village : GURDARI AMBAKONA

Taluka : BISHUNPUR Post office : DUMBERPAT

Pin Code

FAX No. : 06526-24118

E-mail : bijesh.jha@adityabirla.com

Phone : 06526-24016

(f) Police Station : BISHUNPUR
(g) First opening date : 01/02/1985

(h) Weekly day of rest : SUN

2. Address for : VILL-GURDARI

correspondance BISHNPUR

DIST-GUMLA

3. (a) Lease Number : BHR0249 (b) Lease area : 584.19

(c) Period of lease : 20

(d) Date of Expiry : 22/03/2005

4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : HINDALCO INDUSTRIES LTD.,

AT & PO - COURT ROAD, LOHARDAGA LOHARDAGA

JHARKHAND

Phone:06526- 224015/224112/223113

FAX :06526- 224118

Owner : S.S.KOTHARI

M/s HINDALCO INDUSTRIES Ltd., CENTURY BHAWAN,Dr. ANNIE BESANT Rd. MUMBAI (SUBURBAN) MAHARASHTRA Phone: 022- 24227586 FAX: 022- 24308491

Agent : B.K.JHA

M/s HINDALCO INDUSTRIES Ltd. COURT ROAD PO& DIST -LOHARDAGA (JHK) LOHARDAGA

JHARKHAND

Phone: Mob- 941708929, 06526-224112/224015

FAX : 06526-224118

Geologist

Name : ARUN KUMAR BEHERA, Full Time

Qualification : M.Sc(Geo)
Appointment/ : 16/02/2016

Termination date

Manager

Name : KIRAN SHANKAR SINGH
Qualification : B.E (MINING ENGINEER)

Appointment/ : 01/01/2014

Termination date

6. Date of approval of Mining
Plan/Scheme of Mining
Mining Scheme rule 12 MCDR1988
Renewal under rule 24 MCR1960
Mining Scheme rule 12 MCDR1988
12/02/1992
25/09/1998
Renewal under rule 24 MCR1960
Mining Scheme rule 12 MCDR1988
19/01/2012
FMCP under 23C(1)
Mining Scheme rule 12 MCDR1988
17/04/2015

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was proposal for 35 boreholes to convert (122) reserve to (111).during the plan period 2011-12 to 2013-14 valid up to 31.03.2014.	No exploration was carried out during the period due to non-availability of land.	Proposed exploration in 2011-12 to 2013-14 was not carried
1b	Exploration over lease area for geological axis 1 or 2	Exploration was done on a grid of 50x50m and placed entire reserve under 111 &122.	Entire lease area already been explored under111 &122.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal was there in the present approved Scheme of Mining. In the last approved Mining Plan dated 25.04.2011, valid for the plan period 2010-11 to 2014-15, no such proposal was there.	The "Geosolution Proservices Pvt. Ltd." of Kolkata Was the exploration agency. With the rate of drilling @ Rs. 480/- per meter a total of about Rs. One lakh only (Rs. 100000/-was total expenditure incurred for exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved Scheme of Mining dated 19.01.2012, valid for the plan period 2011-12 to 2013-14, no area was remained unexplored.	Entire lease area was explored during the year 2014-15 for G1 and G2 level.	c

1e Balance reserve as on 01/04/20

As per approved Scheme of Mining the Reserve/ Resource as After depleting the production of 324590MT during 2015-16, the Reserve position as on 01.04.2016 was as given below:-

on 01.04.2015 was as given

below:i.

Reserve(111): 2241593MT ii.(122) :1652703 MT

Reserve(111): 1917003 MT (122) :1652703 MT

1f General remarks of inspecting officers on geology, exploration etc The Aluminium ore of the lease area was predominantly Gibbsitic(Tri hydrate). The Ore is overlain by Laterite and underlain by Lithomargic

clay.

Bauxite deposit of the area is mostly associated with laterite, occurs as irregular and discontinuous lenses or tabular bodies within the laterite capping.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease are	As per approved ea Scheme of Mining,dated17 .04.2015 there was proposal to develop Kekrang and PolPol quarries located on eastern and southeastern part of the lease area during 2016-17.	As per proposal the development work during 2016-17 was in progress in POLPOL located on the eastern portion of lease.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches in Overburden	Separate benches in Overburden (Laterite) and Bauxite were developed in working quarries.	Mining Scheme was approved on 17.04.2015 for the plan period 2015-16 to 2018-19 in which 2014-15 was lapse period.
2c	Stripping ratio or ore to OB ratio	As per approved Scheme of Mining, the overall stripping ratio during the period 2015-16 to 2018-19 was proposed to be 1: 04.7	During the year 2015-16 ROM produced was 324590MT and OB removed 576357 MT with stripping ratio 1:1.77.	
2d	Quantity of topsoil generation in m3	As per approved Scheme of Mining, the top soil generation during 2015-16 was proposed to be 621759cum	The Top soil generation figure was not available	
2e	Quantity of overburden generation in m3	As per approved Scheme of Mining, the Overburden generation during 2015- 16was proposed to be 653670m3	The quantity of OB generation during 2015-16 was 1037442MT	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	Bauxite deposits of Neterhat plateau are mostly associated with laterite. Bauxite occurs as Boulder, lenses, pocket type deposit overlain by Laterite	

Actual work

Remarks

Exploitation:

Item

Propasals

Sl.No.

3a Number of pit proposed for production

As per Scheme of Mining approved dated 17.04.2015 for During 2016-17 mine working in Polpol quarry.

the plan period 2014-15 to 2018-19. Two quarries were proposed for mining i,e POLPOL and Kekranq.

3b Quantity of ROM mineral production proposed

As per Scheme of Mining approved dated the plan

to 2018-19. proposed production schedule during 2015-16 to 2018-19 are given below: 2015-16:322911MT

2016-17:320294 MT2017-18: 322033 MT 2018-19 : 308424 MT

The quantity of ROM mineral production during previous years was as given below:-17.04.2015 for i. 2009-10: 310825 MT; ii.2010-11: 324950 MT; period 2014-15 iii.2011-12: 323822 MT; iv.2012-13: 324648 MT; the year wise v.2013-14: 313975 MT; vi.2014-15: 323655 MT.

vi.2015-16 :324590 MT

The Scheme of Mining dated 17.04.2015 was valid for the plan period 2015-16 to 2018-19 and 2014-15 was lapse period.

3с Recovery of sailable/usable mineral from ROM saleable/useab production

The proposed recovery of le mineral from ROM production was 80%.

During the period 2015-16 recovery was 80%

3d Quantity of mineral reject generation

No proposal available for mineral rejects generation during the period 2015-16

to 2018-19

No mineral reject generation was reported from the mine.

Grade of mineral Since no rejects generation and threshold value declared.

generation was with stringent proposed hence specification. its grade is irrelevant. The Threshold value of Bauxite has

been kept at 30% Al2O3(Min) and <5% SiO2.

The threshold value of mineral reject Bauxite was maintained

3f Quantity of sub grade mineral generation.

No proposal for sub-grade mineral available in the approved Scheme of Mining .Blending of high grade ore with low grade ore was proposed.

No sub-grade generation was reported from the mine. Lower grade ore generation was are hand sorted and suitably blended to ensure metal grade requirement of the plant.

3g Grade of sub grade mineral generation

No proposal available.

No sub-grade generation was reported from the mine. Lower grade ore are hand sorted and suitably blended to ensure metal grade requirement of the plant.

3h Manual / Mechanised method adopted for segregating from ROM

In the approved Scheme of method was proposed for segregating from ROM.

Manual sorting, sizing and screening were done at mine site for Mining, manual segregation of useable part from ROM.

In the approved Scheme of Mining, manual method was proposed for segregating from ROM.

Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.

study was proposed for sub-grade mineral and reject no sub-grade and reject material was proposed to be generated from the mine as per approved Scheme of Mining.

No analysis or No analysis or beneficiation beneficiation study was carried out for subgrade mineral and reject material as no sub-grade mineral and reject material was reported to material since be generated from the mine.

3ј Provision of drilling and blasting in mineral benches As per Scheme of Mining approved dated the plan period 2015-16 to 2018-19 Where 20154-15 was lapse period, there was provision of drilling and blasting in harder formation (Laterite and Bauxite). Drilling was proposed by crawler mounted Rock Drill of 100mm dia upto the depth of 5.5m with Burden and Spacing at 2.5m X 3m. The holes were proposed to be charged with Slurry explosive and short firing was proposed with the help of OD and Safety fuse. About 10-20 holes were proposed.

Drilling with Rock drill (100 mm dia) and blasting were done as per proposal in the mine 17.04.2015 for during the period 2015-16.

mining machineries deployed in the mine machineries in were proposed during inspection (2015mineral benches to be used in 16) were as given the mine as below:per approved i. Rock drill: 02 nos. Scheme of (100 mm dia); Mining:ii. Air Compressor: 02 i. Rock drill: nos. (400 CUM/MN; 03 nos.(100 mm iii. Shovel(0.9 cu.m): 1 no.; ii. iv. Shovel(1.1 cu.m): 1 Compressor: 04 no.; nos. (400 v. Shovel(2.5 cu.m): 1 CUM/MN); no.; iii. Poclain vi. Wheel mounted Excavator: 03 Loader: 2 nos. (1.8 nos. (0.9 cu.m); cu.m); vii. Dumper (7.5 MT): 10 iv. Poclain nos.; Excavator: 02 viii. Dumper(25 MT): 3 nos. (1.85 nos.; cu.m); ix. Water tanker (4500 v. Terex: 02 lts): 01 no.; nos. (1.5 cu.m); vi. Dumper: 16 nos. (10 MT); vii. Dozer: 01

no. (180 H.P)

viii. Tractor:

etc.

05 nos.; ix. Water Pump: 01 no.; x. Electric Generator: 01 no. (7.5KVA).

The following

The list of machineries

3k

Provision of

Whether height of benches in overburden and mineral suitable Mining it was for method of mining proposed in MP/SOM

In the approved Scheme of proposed to maintain the height of benches in OB and Mineral within 6m. Whereas the bench width was proposed to be maintained within 15m. The height and width proposed was suitable for 'A'-FM method of mining.

The height of the benches in Top soil was maintained between 1-2m, in OB(Laterite), it was maintained between 2-2.5m while in Bauxite, the bench height was maintained between 3-4m. The height of benches were in conformable with the 'A'-FM method of mining.

3m Total area covered under excavation/pits Total cumulative area proposed 16 was 126.67ha.. to be covered under excavation up to the plan period 2015-16 was 123.23 Ha.

Area covered under excavation during 2015-

3n Ore to OB ratio for the pit/mine approved during the year. Scheme of

As per Mining, the overall stripping ratio during the period 2015-16 was proposed to be 1:4.16

During the year 2015-16 ROM produced was 324590MT and OB removed 576357 MT with stripping ratio 1:1.77.

30 Total area put in use under different heads at the end of year

As per Scheme The total area put to of Mining use during 2015-16was as approved given below:dated Excavated quarries: 17.04.2015 for 126.67ha the plan ii. period 2015-16 Recalimed/Rehabilitatedto 2018-19 118.550ha Where 2014-15 iii. Plantation-8.5ha was lapse period area under different heads were as under:i. Excavated quarries: 123.23 ha ii. Road: 7.34ha; iii. Infrastructure : 1.0 Ha. iv. Green Belt-1.22

3p Production of As per ROM mineral approved during the last Scheme of five year period Mining, the as applicable year wise

As per approved Scheme of year wise proposed production schedule of ROM was as given below:i.2011-12: 314617 MT; ii..2012-13: 325251 MT; iii..2013-14: 320210 T. iv.2014-15 :323655 MT v.2015-16 :322911M T

The quantity of ROM mineral production during previous years are given below:i.. 2011-12: 323822 MT;
ii. 2012-13: 324648 MT;
iii. 2013-14: 313975 MT;
iv. 2014-15: 323655 MT;
v.2015-16: 324590 MT

3q General remarks of inspecting officers on method of mining dated

of Mining approved the plan to 2018-19 was lapse period,it was proposed to work under 'A'-FM category of opencast mining with bench dimension of 3-6m X 6-15m

 $(h \times w).$

As per Scheme A'- FM category of opencast mining method was adopted in the mine. The bench height in Top 17.04.2015 for soil was maintained between 1-2m, in period 2015-16 OB(Laterite) it was maintained at 2-2.5m and Where 2014-15 in Bauxite it was maintained at 3-4m, which were within proposed limit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	of Mining approved dated 17.04.2015 for		

4b	Location of topsoil, OB and mineral reject dumps	rite) and	There was no Top soil and OB (Morrum/Laterite) dump within the lease area. Further, no Mineral reject dump also existed within the lease.
4c	Number of dumps within lease area and outside of lease area	There was no proposal for Waste dumping within or outside the lease area during the plan period of 2015-16 to 2018-19	There was no waste dump within or outside lease area as on date of inspection.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There was no proposal of dumping in the approved Scheme of Mining dated dated 17.04.2015	There was no dump hence it was not applicable.
4e	Number of active and alive dumps.	There was no proposal of active dump in the approved Scheme of Mining.	No active dump was present within the lease area.
4f	Number of dead dumps.	There was no proposal of dead dump in the approved Scheme of Mining.	No dead dump was present within the lease area.
4g	Number of dumps established.	There was no proposal of dump within the lease area as per approved Scheme of Mining.	There was no dump within the lease area hence its establishment was not relevant.
4h	Whether Retaining wall or garland drain all along dumps are there.	There was no proposal of construction of Retaining wall or Garland drain.	Since there was no dump hence construction of Retaining wall and Garland drain were not relevant.
4i	Length of Retaining wall or garland drain all along dumps	Not applicable.	Not applicable.

4 j	Number of settling ponds	No such proposal was there for construction of settling pond.	No settling pond was created within the lease. one Water harvesting pond was created within the lease.
4k	Specific comments of inspecting officer on waste dump management		Since no dump was there within the lease area hence no comment on the aspect can be given.

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.	Simultaneous backfilling was proposed inKujam & Dhobikutumb quarries during 2015- 16.	Simultaneous backfilling was in practiced in Kujam & Dhobikutumb quarries during 2015-16.	
5b	Area under backfilling of mined out area	to be backfilled	Area e backfilled during 2015-16 was in in Kujam & Dhobikutumb quarries covering 10.6 ha. during 2015-16.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	During the plan period 2015-16 to 2018-19 about 621759 Cu.M of Soil & Morrum were proposed to be used for spreading over backfilled area.	Simultaneous spreading of top soil was done over backfilled area and afforested over 8.5 ha.	2014-15 was lapse period

5d	Total area fully reclaimed and rehabilitated	to be backfilled during 2015-16	Area to be backfilled during 2015-16 was in in Kujam & Dhobikutumb quarries covering 10.6 ha. during 2015-16.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	of top soil	date of inspection was 130.31ha and total area reclaimed was 123.23ha, total area	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Lessee has submitted Annual PMCP report in time.	Lessee has submitted Annual PMCP report in time.	
6b	Area available for rehabilitation (ha) .	for rehabilitation	Total area reclaimed 123.23ha and area rehabilitated-75.6ha and total plantation done on 8.5 ha.	
6c	afforestation done (ha).	planted during the plan	As on 01.04.2016 total plantation was 10865 trees over 5.1 ha and as on date of inspection total plantation was 18865 trees over 8.5 ha.	

6d	No. of saplings planted during the year	planted during the plan	As on 01.04.2016 total plantation was 10865 trees over 5.1 ha and as on date of inspection total plantation was 18865 trees over 8.5 ha.
6e	Cumulative no .of plants	planted during the plan	As on 01.04.2016 total plantation was 10865 trees over 5.1 ha and as on date of inspection total plantation was 18865 trees over 8.5 ha.
6f	Any other method of rehabilitation	No other proposal was available.	Only plantation has been reported over the backfilled area and no other method was adopted. One pond was also there for water harvesting covering an area of 0.7 ha.
6g	Cost incurred on watch and care during the year	No proposal available in the approved Scheme of Mining.	No information available
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	to be backfilled during 2015-16 was in in Kujam &	Area e backfilled during 2015-16 was in in Kujam & Dhobikutumb quarries covering 10.6 ha. during 2015-16.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	to be backfilled	Areae backfilled during 2015-16 was in in Kujam & Dhobikutumb quarries covering 10.6 ha. during 2015-16.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	planted during the plan	As on 01.04.2016 total plantation was 10865 trees over 5.1 ha and as on date of inspection total plantation was 18865 trees over 8.5 ha.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	There was proposal for making Pond over an area of 0.7 Ha area in the approved Scheme of Mining.	One pond is also there covering an area of 0.7ha for water harvesting
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	There was no other proposal.	Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	Not Applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	There was no separate proposal for rehabilitation of waste land during the plan period 2015-16 to 2018-19.	No information was available.

60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal available.	Not applicable.	
6p	Compliance of environmental monitoring (core zone and buffer zone)		Quarterly monitoring of air, water and noise data carried and found to be within permissible limit.	2014-15 was lapse period.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No such proposal.	Lessee has made every effort to comply the provisions of PMCP as per approved document.	Outmost care taken for preserving environment and conservation of mineral resources.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal for grade wise sorting within the lease area.	Only manual sorting done before dispatch.	The ore of 40-45% Al203 & SiO2-05% was dispatched to its captive plant at Renukoot.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	of Bauxite ore from OB/Waste	Manual sorting of Bauxite ore from OB/Waste material was done at the mine site. No grade-wise sorting of ore was done at the mine site as entire mined out material was of 40-45 % Al203 grade.	
7c	Different grade of mineral sorted out at mines.	There was no proposal for grade wise sorting at the mine site, as only 40-45% Al203 grade ore occurred within the lease area.	Grade wise sorting of ore was not done at the mine site.	

7d	Any beneficiation process at mines .	No proposal available in the approved Scheme of Mining.	No beneficiation was carried out at the mine site.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposal for mineral	No beneficiation was carried out at the mine site. For Mineral Conservation aspect, lessee had deployed suitable nos. of workers for manual sorting of ore from blasted material to avoid mixing of ore with deleterious material. The low grade ore (on visual perception) was blended with high grade material, before dispatch to the railway siding.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	there to remove top soil	Concurrent backfilling and spread of top soil over backfilled area for rehabilitation/afforestation practiced.	
8b	Concurrent use or storage of topsoil	Proposal was there to remove top soil separately and spread over minedout backfilled area concurrently.	Top soil concurrently used to spreading over backfilled areas.	

8c Separate dumps OB and waste rock so No such for overburden, removed is used to proposal waste rock, instead backfill mined out rejects and Concurrent areas. fines (Rule 33) backfilling and spread of top soil over backfilled area proposed. 8d Use of Proposal was All waste rock, fines overburden, there to etc used concurrently waste rock, remove top for backfilling mined rejects and soil out areas and spreading fines dumps for separately and of top soil for restoring the land for restoring the spread over land to its mined out its original use. original use backfilled area concurrently for restoring the land to its original use: 8e Phased Proposed area Total area reclaimed restoration, for 123.23ha and area reclamation and rehabilitation rehabilitated-75.6ha and rehabilitation was 10.63 ha total plantation done on of lands during 2015-8.5 ha. affected by 16. mining operations (Pits, dumps etc) 8f Baseline About 5650 As on 01.04.2016 total information on plantation was 10865 saplings was existence of proposed to be trees over 5.1 ha and as plantation and planted during on date of inspection additional the plan total plantation was plantation done period 2015-16 18865 trees over 8.5 ha. (Rule 41) to 2018-19 over 2.26ha and 1450 plantatiion

over 0.58 ha during 2015-

16.

8g	Survival rate	Proposed survival rate during the plan period 2015-16 to 2018-19 was 90% and proposa to plant 5650 trees over an area of 2.26 ha.	Cumulative Plantationn done as on01.04.2016 was 10865 with survival rate -65% and plantation uo to date of inspection was 18865 trees and survival rate was also 65%.
8h	Water sprinkling on roads to control airborne dust	proposal was	It was reported that during dry season, water sprinkling arrangement was made on haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	As on 01.04.2016 total plantation was 10865 trees over 5.1 ha and as on date of inspection total plantation was 18865 trees over 8.5 ha.with survival rate 65%.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submit monthly and Annual Return	Lessee use to submit monthly and Annual Return regularly and furnished data in relevant items.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	return 2015-16 Sri Kiran Shankar Singh	During inspection Sri Kiran Shankar Singh is Mining Engineer cum Mines manager and Sri Arun kumar Behra is Geologist	

9c Scrutiny of land use In actual practice the Annual return on pattern was total area put to use as land use pattern furnished as on date of inspection given below:for area under was as given below:pits, reclaimed i. Excavated i. Excavated quarries: area, dumps etc. quarries: 126. 130.31 HA 8.12ha-123.23 ha area current reclaimed, 75.6 Ha of working); rehabilitated . ii. Reclaimed/ plantation and 8.5&0.7ha Rehabilitated: Ha of rehabilitated 118.550 Ha; area through making iii. Plant & Pond); building-8.34ha iv. Area under PMCP-10.6ha 9d Scrutiny of As per Annual As per Annual Return for Annual return on Return for the the year 2015-16, the afforestation year 2015-16, plantation done within the plantation ML area was shown as done within ML 2500 nos. within the area was shown lease area with survival as 2500 nos. rate -80%. within the lease area with survival rate -80%. 9e Scrutiny of As per Annual No Mineral Reject Annual return on Return 2015-16 generation from the mine mineral reject the was reported during the generation information on period 2015-16 (Grade and Mineral Reject generation was quantity) shown as Nil. As per Annual The figures given for 9f Scrutiny of Annual return on Return for the opening and closing ROM stock and/or year 2015-16, stocks were in the ROM stock conformable with the graded ore figures furnished (opening through Monthly returns. balance) and Closing stock were shown as given below:-Year 2013-14: i. Opening stock: 40-45% Al203 grade: 1080.58 MT; ii. Closing stock: 40-45% Al203 grade: 95.2 MT.and

> dispatch-325575 MT.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	It is a captive mine of Hindalco,Cost of production-626.46MT	It is a captive mine of Hindalco,Cost of production-626.46MT
9h	Scrutiny of Annual return on fixed assets	of the lessee was shown in Part-IIA of the Annual	The value of Fixed Assets of the lessee was shown in Part-IIA of the Annual Return for the year 2015-16 was Rs 240254493/- and depreciation in fixed assets Rs13257708 MT
9k	Scrutiny of Annual return on mining machineries	As per Annual Return 2015-16 the machineries used were as given below:- i. Shovel: 3 nos.(0.9 cu,m + 1.12 cu.m + 1.7 cu.m); ii. Wheel Loader: 2 nos. (2.0 cu.m); iii. Dumper: 5 nos (10 MT); iv. Dumper: 8 nos. (7.5 MT); v. Air Compressor: 03 nos. (400 CUM/MN). vi.Rock drill100.0MM- 01 vii.Water Tanker-4500.0L	<pre>v. Shovel(2.5 cu.m): 1 no.; vi. Wheel mounted Loader: 2 nos. (1.8 cu.m); vii. Dumper (7.5 MT): 10</pre>

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed Show course position

Violation observed			Show couse position		
Rule NO.	Issued on C	Compliance on	Rule NO.	Issued on Compliance on	

Date: (B K SINGH)

Indian Bureau of Mines