INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : JHK/GML/BX/249/RRO **Mine code : 07JHK12010**

(i) Name of the Inspecting Officer and ID No. : **M008) J. MOHANTA**

(ii) Designation : Assistant Mining Engineer

(iii) Accompaning mine Official with Designation : Shri B.K Mohapatra,DGM(Geo), Shri A.Bharti,Mining Eng

(iv) Date of Inspection : 05/10/2016

(v) Prev.inspection date : 22/08/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SERANDAG (140.66 HCT.)**

(b) Registration NO. :

(c) Category : A Other than Fully Mech.

(d) Type of Working : Opencast

(e) Postal address

State : JHARKHAND
District : LOHARDAGA
Village : SERANDAG
Taluka : LOHARDAGA
Post office : GHAGHRA
Pin Code :
FAX No. : 06526-224112/224015/223113
E-mail : bijesh.jha@adityabirla.com
Phone : 06526-224118

(f) Police Station : GHAGHRA

(g) First opening date : 25/04/1996

(h) Weekly day of rest : SUN

2. Address for correspondance : MINES DIVISION, HINDALCO INDUSTRIES LTD.,
HINDALCO COMPLEX, COURT ROAD,
AT/P.O- LOHARDAGA-835302, JHARKHAND

3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :

4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : M/S HINDALCO INDUSRIES LTD.
COURT ROAD, LOHARDAGA,
LOHARDAGA JHARKHAND
Phone:06526 - 224012 & 224118
FAX :06526-224112, 224016 & 0651- 2330782

Owner : A.K. AGARWALA
HINDALCO INDUSTRIES LIMITED
AT-RENUKOOT, P.O.-RENUKOOT
DIST. SNOEBHADRA, U.P
SONBHADRA UTTAR PRADESH
Phone: 05446-252084, 2
FAX : 05446-252107

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

Mining Engineer
Name : SRI AMAR BHARTI,Full Time
Qualification : B.E(MIN)
Appointment/ Termination date : 04/05/2016

Geologist
Name : SRI RAMESH KUMAR,Full Time
Qualification : M.SC(GEOLOGY)
Appointment/ Termination date : 03/01/2014

6. Date of approval of Mining Plan/Scheme of Mining :

Existing rule 11 MCDR1988	18/01/1994
Mining Scheme rule 12 MCDR1988	31/01/2001
Mining Scheme rule 12 MCDR1988	24/10/2005
Renewal under rule 24 MCR1960	07/06/2012
MP modif under MCR 1960	31/05/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed in the mining plan approved for the period from 2015-16 to 2019-20.	There is no backlog of previous year.	
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed in the mining plan approved for the period from 2015-16 to 2019-20.	The entire leasehold area has already been explored by core drilling at a grid interval of 50m x 50m and 25m x 25m.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration was proposed in the mining plan approved for the period from 2015-16 to 2019-20.	Not applicable.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration was proposed in the mining plan approved for the period from 2015-16 to 2019-20.	No balance area to be explored. The entire leasehold area has already been explored by core drilling at a grid interval of 50m x 50m and 25m x 25m.	

1e	Balance reserve as on 01/04/20	As per mining plan approved for the period from 2015-16 to 2019-20, the reserve as on 01/04/2015 is : Proved (111) - 797305 MT and remaining resources (211) - 1610856 MT. Average grade of bauxite is Al2O3-41.6%, SiO2- 3.9%.	No production was reported during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The balance reserve available as on 01/04/2016 is Proved (111) - 797305 MT and remaining resources (211) - 1610856 MT.
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable.	The lessee has carried out exploration work covering surveying, geological investigation and systematic drilling in their leasehold in the Serandag plateau since 1960. The entire leasehold area has been explored by core drilling at a grid interval of 50m x 50m and 25m x 25m and reserve has been established properly and mining operation is going on accordingly.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry no. 1 of Block I was proposed to be developed in eastern direction during the year 2015-16.	No development has been made during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal for formation of three benches in soil & morrum, laterite and bauxite have been made in the approved document.	Separate benches in soil & morrum, laterite and bauxite have been made.
2c	Stripping ratio or ore to OB ratio	Ore to OB ratio during the year 2015-16 was 1:4.88.	During the year 2015-16, no production was reported from the mine. Hence the stripping ratio could not be verified.
2d	Quantity of topsoil generation in m3	It was a proposed to generate 80774 cum. of topsoil during the year 2015-16.	No generation of topsoil was reported during the year as the mining operation is discontinued since 10/9/2014.
2e	Quantity of overburden generation in m3	It was a proposed to generate 233419 cum. of waste during the year 2015-16.	No generation of waste was reported during the year as the mining operation is discontinued since 10/9/2014.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable.	Quarry no. 1 of Block I was proposed to be developed in eastern direction during the year 2015-16. No development was made during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Quarry no. 1 of Block I was proposed to be developed in eastern direction during the year 2015-16.	No development was made during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.	

3b	Quantity of ROM mineral production proposed	99671 tonne of bauxite was proposed to be produced during the year 2015-16.	No production was reported during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.
3c	Recovery of sailable/usable mineral from ROM production	60% recovery of ore has been proposed in the approved document.	No production was reported during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.
3d	Quantity of mineral reject generation	There is no proposal of mineral reject generation in the approved document.	No mineral reject generation was reported from the mine during the year 2015-16.
3e	Grade of mineral rejects generation and threshold value declared.	There is no proposal of mineral reject generation in the approved document.	Not applicable as there was no mineral reject generation from the mine. The threshold value of bauxite is Al2O3- 30% with SiO2- <5%.
3f	Quantity of sub grade mineral generation.	There is no proposal of sub grade mineral generation in the approved document.	No subgrade mineral generation was reported during the year 2015-16 as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.
3g	Grade of sub grade mineral generation	There is no proposal of sub grade mineral generation in the approved document.	Not applicable as there is no generation of subgrade mineral.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method of sorting and sizing of bauxite from the blasted material (ROM) has been proposed in the approved document.	The bauxite after blasting is sorted and sized manually from ROM.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	There is no proposal of any analysis or beneficiation study for subgrade mineral and rejects in the approved document.	As there is no generation of subgrade mineral and rejects, no analysis or beneficiation is carried out at the mine.
3j	Provision of drilling and blasting in mineral benches	There is provision of drilling by DTH drills and blasting by using special gelatine explosives,detonators & safety fuse in the approved document.	The mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. Usually 88-100 mm diameter holes are drilled by wagon drill to a depth of 5.5 mt. keeping spacing and burden 2.5m x 3m respectively. The holes are charged with slurry explosives. Short firing is done by using ordinary detonator & safety fuse.
3k	Provision of mining machineries in mineral benches	The method of mining proposed to be carry out by OTFM method by deep hole drilling, blasting and shovel-dumper combination and manually loading of ore. Mining machineries like excavators, dumpers, dozers, compressors and wagon drills are proposed to be deployed in the mine.	There was no deployment of mining machineries in the mine as the mining operation is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There is proposal to maintain height of OB benches 6m and bauxite benches 3m in the approved document.	The height of the benches proposed in overburden and in ore zone is suitable for the method of mining proposed in the approved mining plan. Presently the mining operation in the mine is discontinued since 10/09/2014.
3m	Total area covered under excavation/pits	An extent of 13.9 ha was proposed to be covered under excavation / pits after 2015-16.	As reported by the party, an extent of 11.52 ha of area (including 6.35 ha of backfilled area) has been degraded by the quarry / pits as on the date of inspection.
3n	Ore to OB ratio for the pit/mine during the year.	Proposed Ore to OB ratio during the year 2015-16 was 1:4.88.	During the year 2015-16, no production was reported from the mine. Hence the Ore to OB ratio during the year could not be verified.
3o	Total area put in use under different heads at the end of year	As per the approved mining plan for the period from 2015-16 to 2019-20, land use patern after 2015-16 is as under: Quarries-13.9 ha, Road-2.25 ha, Soil dump-0.53 ha, O.B dump-o.33 ha and green belt- 0.40 ha.	As per annual return submitted by the party for the year 2015-16, area put in use under different head are as follws: area already exploited & abandoned by opencast workings: 11.52 ha, current opencast workings: 5.17 ha, reclamined/ rehabilitated: 6.35 ha, Waste disposal: 0.140ha and occupied by plant,buildings, road etc.,: 2.25 ha.

3p	Production of ROM mineral during the last five year period as applicable	As per the approved document, production proposed during the last five years are ; 2011-12: 126022 tonnes, 2012-13: 100126 tonnes, 2013-14: 103939 tonnes, 2014-15: 101027 tonnes and 2015-16- 99671 tonnes.	Production achieved during the last five years are: 2011-12: 89090 tonnes, 2012-13: 99772 tonnes, 2013-14: 99795 tonnes, 2014-15: 31650 tonnes and 2015-16- Nil.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no proposal for separate dumping of top soil, OB and mineral rejects in the document approved for year 2015-16 to 2019-20. The entire waste material to be generated during the course of mining operation will be utilised for backfilling in the worked out areas. The tosoil so generated will be spread over the backfilled area.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The OB and waste material generated from the mine is utilised for concurrent backfilling in the mined out areas and top soil is used for reclamation of the backfilled quarry.
4b	Location of topsoil, OB and mineral reject dumps	There is no proposal for separate dumping of top soil, OB and mineral rejects in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. No separate dumping of topsoil, OB & mineral reject. The OB and waste material generated from the mine is utilised for concurrent backfilling in the mined out areas and top soil is used for reclamation of the backfilled quarry.
4c	Number of dumps within lease area and outside of lease area	There is no proposal for separate dumping of top soil, OB and mineral rejects in the approved document.	The OB and waste material generated from the mine is utilised for concurrent backfilling in the mined out areas and top soil is used for reclamation of the backfilled quarry.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There is no proposal in the approved document.	The OB and waste material generated from the mine is utilised for concurrent backfilling in the mined out areas.
4e	Number of active and alive dumps.	There is no proposal for the year 2015-16 in the approved document.	No active & alive dump.
4f	Number of dead dumps.	There is no proposal for the year 2015-16 in the approved document.	None.
4g	Number of dumps established.	There is no proposal for the year 2015-16 in the approved document.	None.
4h	Whether Retaining wall or garland drain all along dumps are there.	There is no proposal for the year 2015-16 in the approved document.	Retaining wall and garland has not been made.
4i	Length of Retaining wall or garland drain all along dumps	There is no proposal for the year 2015-16 in the approved document.	Not applicable.
4j	Number of settling ponds	There is no proposal for the year 2015-16 in the approved document.	No settling pond in the lease area.
4k	Specific comments of inspecting officer on waste dump management	Not applicable.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The OB and waste material generated from the mine is utilised for concurrent backfilling in the mined out areas and top soil is spread over it for reclamation of the backfilled quarry.

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.	There is no proposal for the year 2015-16 in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The entire OB and waste material generated from the mine is utilised for concurrent backfilling of the mined out areas and top soil is spread over it for reclamation of the backfilled quarry.	
5b	Area under backfilling of mined out area	There is proposal of 5.58 ha area to be backfilled during the year 2015-16 in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. As per annual return submitted for the year 2015-16, an extent of 6.35 ha area has been backfilled in the mined out areas.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is proposal for concurrent use of topsoil for rehabilitation of mined out areas in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The entire OB and waste material generated from the mine is utilised for concurrent backfilling of the mined out areas and top soil is spread over it for reclamation / rehabilitation of the backfilled quarry.	
5d	Total area fully reclaimed and rehabilitated	In the approved document, there is proposal of 5.58 ha area to be backfilled during the year 2015-16 by the waste materials generated from the mine.	As per annual return submitted for the year 2015-16, an extent of 6.35 ha area has been backfilled in the mined out areas.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The entire OB and waste material generated from the mine is utilised for concurrent backfilling of the mined out areas and top soil is spread over it for reclamation / rehabilitation of the backfilled quarry. As per annual return submitted for the year 2015-16, an extent of 6.35 ha area has been backfilled in the mined out areas.

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).	Annual report on PMCP for the year 2015-16 has not been submitted by the lessee.	Mining operation in the mine is discontinued since 10/09/2014.	
6b	Area available for rehabilitation (ha) .	An extent of 5.58 ha area has been proposed to be backfilled during the year 2015-16 by the waste materials generated from the mine.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.	
6c	afforestation done (ha).	During the year 2015-16, there is a proposal of afforestation over 0.40 ha area within 7.5m barrier and 1.32 ha over backfilled area as per approved document.	No plantation has been done during the year 2015-16. Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. As reported by the party, about 1.78 ha (inside ML-1.16 ha & outside ML-0.62 ha) area has been covered under afforestation.	

6d	No. of saplings planted during the year	During the year 2015-16, there is a proposal for plantation of 4300 nos. of saplings over an area of 1.72 ha within 7.5m barrier and over the backfilled area as per approved document.	No plantation has been done during the year 2015-16. Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014.
6e	Cumulative no .of plants	During the year 2015-16, there is a proposal for plantation of 4300 nos. of saplings over an area of 1.72 ha within 7.5m barrier and over the backfilled area as per approved document.	As reported by the party, as on 01/04/2016, 3900 nos of saplings have been planted inside and outside ML with 65% survival rate.
6f	Any other method of rehabilitation	No such proposal in the approved document.	Not applicable.
6g	Cost incurred on watch and care during the year	No such proposal in the approved document.	Details not available.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014 as per State Govt. order dated 10/09/2014. The entire OB and waste material generated from the mine is utilised for concurrent backfilling of the mined out areas and top soil is spread over it for reclamation / rehabilitation of the backfilled quarry. As per annual return submitted for the year 2015-16, an extent of 6.35 ha area has been backfilled in the mined out areas.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014. The entire OB and waste material generated from the mine is utilised for backfilling of the mined out areas. Top soil is spread over it for reclamation of the backfilled quarry. As per annual return submitted for the year 2015-16, an extent of 6.35 ha area has been backfilled in the mined out areas.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	During the year 2015-16, there is a proposal for plantation of 3300 nos. of plants over 1.32 ha of backfilled area.	As reported by the party, as on 01/04/2016, 3900 nos of saplings (inside ML-2900 & outside ML-1000) have been planted over an area of 1.78 ha.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal in the approved document.	No water reservoir has been created in the lease area.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal in the approved document.	No other means has been reported.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	N.A	There is no waste land within lease area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No approved proposal during the year 2015-16.	No waste land within lease area.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	N.A.	Not applicable.
6p	Compliance of environmental monitoring (core zone and buffer zone)	N.A.	No information available.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable.	Presently mining operation in the mine is discontinued since 10/09/2014. The entire OB and waste material generated from the mine is utilised for backfilling of the mined out areas. Top soil is spread over it for reclamation of the backfilled quarry. As per annual return submitted for the year 2015-16, an extent of 6.35 ha area has been backfilled in the mined out areas. about 1.78 ha (inside ML-1.16 ha & outside ML-0.62 ha) area has been covered under afforestation.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks

7a	ROM Mineral dispatch or grade-wise sorting within lease area	There was no specific proposal during the year 2015-16 in the approved document.	The ROM is sorted and sized manually within lease area before dispatch. Presently mining operation in the mine is discontinued since 10/09/2014. Hence there is no dispatch from the mine during the year.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method of sorting and sizing has been proposed in the approved document.	The ROM is sorted and sized manually before dispatch. Presently mining operation in the mine is discontinued since 10/09/2014. No grade wise sorting was done during the year.
7c	Different grade of mineral sorted out at mines.	Manual method of sorting and sizing has been proposed in the approved document.	The ROM is sorted and sized manually before dispatch. Presently mining operation in the mine is discontinued since 10/09/2014. No grade wise sorting was done during the year.
7d	Any beneficiation process at mines .	Manual method of sorting and sizing has been proposed in the approved document.	Presently mining operation in the mine is discontinued since 10/09/2014. No beneficiation is done at the mine site.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable.	Presently mining operation in the mine is discontinued since 10/09/2014. The entire production is meant for consumption at the alumina plant of the company at Renukoot for extraction of alumina and aluminium metal. All possible effort is taken for mineral conservation by the lessee.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks

8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil is proposed to be removed and spread over the backfilled areas.There is a proposal to handle 80774 cum soil & morrum during the year 2015-16.	Mining operation in the mine is discontinued since 10/09/2014. No removal of topsoil during the year.
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil proposed in the approved document.	Mining operation in the mine is discontinued since 10/09/2014. No removal of topsoil during the year.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for dumping OB,waste, rejects and fines in the approved document.	The entire OB and waste generated from the mine is useed for concurrent backfilling of the mined out areas.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The OB,waste, rejects and fines generated during the mining operation is proposed to be used for backfilling the mined out areas.	The entire OB and waste generated from the mine is used for concurrent backfilling of the mined out areas and soil is spread over it for reclamation. As on date 6.35 ha area has been reclaimed.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is proposal of raclamation and rehabilitation of mined out areas in the approved document.	Mining operation in the mine is discontinued since 10/09/2014. No raclamation and rehabilitation work done during the year. As on date 11.52 ha of land has been affected by mining activity, out of which 6.35 ha has been reclaimed. The entire OB and waste generated from the mine is used for concurrent backfilling of the mined out areas and soil is spread over it for reclamation.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2015-16, there was a proposal of plantation of 1000 plants over 0.40 ha area within 7.5m barrier and 3300 plants over 1.32 ha backfilled area as per approved document.	Mining operation in the mine is discontinued since 10/09/2014. No plantation has been done during the year. As reported by the party, 3900 nos of saplings have been planted inside and outside ML with 65% survival rate as on 01/04/2016.
8g	Survival rate	No approved proposal during the year 2015-16.	65% survival rate has been reported by the party.
8h	Water sprinkling on roads to control airborne dust	There was no proposal for water sprinkling on roads.	Mining operation in the mine is discontinued since 10/09/2014. No water sprinkling on roads is done at present.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable.	Mining operation is being carried out in the non-forest land. Plantation has been done over the reclaimed areas by the lessee. Aesthetic beauty in and around the mining area has not been disturbed by the mining activity.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a	Status of submission of Monthly and Annual returns	Information furnished perating to General & labour, Employment & wages, Capital Structure, Consumption of materials, Consumption of explosives, General Geology & Mining, Production, Dispatch & Stock and Cost of production in the annual return for the year 2015-16.	Lessee has submitted monthly returns uo to Oct. 2016 and annual return for the year 2015-16.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Since the mine is category 'A' mine, whole time mining engineer and geologist have to be appointed as per rule 42(1)(c)(i) of MCDR,1988 and intimation to this office under ruke 46 of MCDR,1988.	Details of the employment of Mining Engineer and Geologist have been furnished in the Annual return return submitted for the year 2015-16.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern furnished in the Annual return submitted for the year 2015-16 is as under: Area already exploited by mining-11.52 ha, Area covered under current working- 5.17 ha, Reclaimed / rehabilitated-6.35 ha, Waste disposal - 014 ha, occupied by building, roards etc. - 2.25 ha.	The information furnished in the annual return is by and large satisfactory.
9d	Scrutiny of Annual return on afforestation	Under part V, item 4.4, it is mentioned that no plantation has made during the year. 2015-16.	No plantation has been done by the lessee as the mining operation in the mine is discontinued since 10/09/2014.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation has been furnished as Nil.	No mineral reject generation was reported during the year as the mining operation in the mine is discontinued since 10/09/2014.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No production was reported during the year 2015-16. ROM opening stock - 11.550 tonnes and closing stock-11.550 tonne of 40-45% Al2O3 reported in the part VI, item 2 of the annual report.	No production was reported during the year as the mining operation in the mine is discontinued since 10/09/2014.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	In the annual return for the year 2015-16, the sale value, ex-mine price and production cost shown as 'Nil'.	No production was reported during the year as the mining operation in the mine is discontinued since 10/09/2014.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets furnished in Part-IIA of the annual return for the year 2015-16.	The value of Fixed Assets of the lessee for the year 2015-16 furnished as Rs240254493/- in Part-IIA of the annual return under Capital structure.
9k	Scrutiny of Annual return on mining machineries	In Part-V, Sec 5/6/8/9 of the Annual Return 2015-16, machineries used in the mine furnished as 'Nil'.	No mining machineries deployed in the mine, as the mining operation in the mine is discontinued since 10/09/2014.

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 :

(**J. MOHANTA**)

Indian Bureau of Mines