

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

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/LOH/BX/209/RRO

Mine code : 07BHR33009

- (i) Name of the Inspecting : **M008**) **J. MOHANTA**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Victor Basu, Geologist
Official with
Designation
- (iv) Date of Inspection : 09/03/2017
- (v) Prev.inspection date : 01/10/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PAKHAR (15.58) 38.50**
- (b) **Registration NO.** : **IBM/961/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : LOHARDAGA
Village : PAKHAR
Taluka : KISKO
Post office : NARI-NAWADIH
Pin Code :
FAX No. : 06526-224118
E-mail : N.A.
Phone : 06526-224016, 224112
- (f) Police Station : KISKO
- (g) First opening date : 26/04/1965
- (h) Weekly day of rest : TUE
2. Address for : VILL-PAKHAR
correspondance : TAL-KISKO
DIST-LOHARDAGA
3. (a) Lease Number : BHR0271
- (b) Lease area : 109.51
- (c) Period of lease : 20
- (d) Date of Expiry : 25/07/2028
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : MINERALS & MINERALS LTD.
 AT/PO-LOHARDAGA DIST-
 LOHARDAGA JHARKHAND
 LOHARDAGA JHARKHAND
 Phone:06526-224016
 FAX :06526-224118

Owner : I.J.JOSHI
 MINERALS & MINERALS LTD. PO
 & DIST-LOHARDAGA LOHARDAGA
 JHARKHAND
 Phone:
 FAX :

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 : P. K. BHALEKAR, Full Time
 Qualification : B.E.(MINING)
 Appointment/ : 15/04/2013
 Termination date

Geologist
 Name : SRI RAMESH KUMAR, Full Time
 Qualification : M.SC(GEOLOGY)
 Appointment/ : 10/01/2014
 Termination date

Manager
 Name : P. K. BHALEKAR
 Qualification : B.TECH (MINING)
 Appointment/ : 15/04/2013
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Existing rule 11 MCDR1988 12/02/1992
 Renewal under rule 24 MCR1960 27/04/1995
 Mining Scheme rule 12 MCDR1988 08/02/2002
 Renewal under rule 24 MCR1960 09/12/2005
 Mining Scheme rule 12 MCDR1988 12/08/2013
 MP modif under MCR 1960 09/05/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	As per the modification in approved mining plan approved vide letter dated 9/5/2016 under rule 22(6) of MCR,1960, there is no proposal of exploration during the plan period from 2015-16 to 2018-19.	No exploration was carried out during the year 2016-17 as was no proposal in the approved document and no backlog of previous year. The mining operation was discontinued since 9/9/2014 vide letter no. 432/M dated 9/9/2014 from DMO, Lohardaga.	
1b	Exploration over lease area for geological axis 1 or 2	As per the modification in approved mining plan approved vide letter dated 9/5/2016 under rule 22(6) of MCR,1960, there is no proposal of exploration during the plan period from 2015-16 to 2018-19.	No exploration was carried out during the year 2016-17 as was no proposal in the approved document. The area is already explored previously and almost exploited. The area has already been explored by drilling 61 nos. of boreholes at 50m x 50m interval with a total meterage of 1159m. During the year 2015-16, total 3 boreholes were drilled in the southern part of the lease area around the dump area. The mine is no-operative from 9/9/2014 by the order of DMO, Lohardaga.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	As per the modification in approved mining plan approved vide letter dated 9/5/2016 under rule 22(6) of MCR,1960, there is no proposal of exploration during the plan period from 2015-16 to 2018-19.	No exploration was carried out during the year 2016-17 as was no proposal in the approved document. As per the approved document, the previous exploration was carried out by M/s Saturn Mining and Exploration Pvt. Ltd., Ranchi and expenditure incurred around Rs 20,09,700/-.	

1d	Balance area to be explored to bring Geological axis in 1 or 2	As per the modification in approved mining plan approved vide letter dated 9/5/2016 under rule 22(6) of MCR,1960, there is no proposal of exploration during the plan period from 2015-16 to 2018-19.	The entire area has already been explored and almost exploited by the lessee and the balance area to be explored is Nil.
1e	Balance reserve as on 01/04/20	As per the modification in approved mining plan approved for the plan period from 2015-16 to 2018-19 vide letter dated 9/5/2016 under rule 22(6) of MCR,1960, the reserve / resource as on 01/04/2015 was given below: Reserve (111): 40266 MT and Resource (211): 617551 MT.	The mine is not operative from 9/9/2014 by the order of DMO, Lohardaga. Hence the reserve / resource position as on 01/04/2016 is same as given earlier. Reserve (111): 40266 MT and Resource (211): 617551 MT.
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable.	The bauxite deposit of the area is mostly associated with laterite, occurs as irregular and discontinuous lenses within laterite capping. The area has already been explored previously and almost exploited. Presently the mine is non operative from 9/9/2014 by the order of DMO, Lohardaga.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, the quarry no. 2A was prposed to be developed during the year 2016-17.	The mining operation was discontinued since 9/9/2014 vide letter no. 432/M dated 9/9/2014 from DMO, Lohardaga due to renewal of lease. No development was carried out during 2016-17 as per proposal due to non operative status of the mine.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil, OB and bauxite were proposed in the mining plan apprved on 9/5/2016. Bench dimension is proposed to be 6m x 6m in in soil and OB and in bauxite 6m x 6m as well as 3m x 3m according to thickness of bauxite.	Separate benches in topsoil, OB and bauxite were developed within stipulated dimensions. Presently the mining operation is discontinued since 9/9/2014 by the order of DMO, Lohardaga.	
2c	Stripping ratio or ore to OB ratio	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, the overall stripping ratio is proposed to be 1:0.91.	The mining operation in the mine is discontinued since 9/9/2014. Hence the stripping ratio or Ore to OB ratio during the year 2016-17 could not be verified.	

2d	Quantity of topsoil generation in m3	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, the topsoil generation during 2016-17 was proposed to be 13427 cum.	The mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No topsoil generation was reported from the mine during the year 2016-17.
2e	Quantity of overburden generation in m3	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, the overburden generation during 2016-17 was proposed to be 29814 cum.	The mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No overburden generation was reported from the mine during the year 2016-17.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable.	The mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga due to renewal of lease. Hence the mine could not be developed as per the proposal made in the approved document. The bench dimensions maintained as per the rule.

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, the quarry no. 2A was proposed to be developed during the year 2016-17.	The mining operation was discontinued since 9/9/2014 vide letter no. 432/M dated 9/9/2014 from DMO, Lohardaga due to renewal of lease. No production was reported during the year 2016-17 as per proposal due to non operative status of the mine.
3b	Quantity of ROM mineral production proposed	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, the proposed production during the year 2016-17 was 71920 cum.	The mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No production was reported during the year 2016-17.
3c	Recovery of saleable/usable mineral from ROM production	The proposed recovery of saleable / usable mineral from ROM is 80%.	The mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No production was reported during the year 2016-17.
3d	Quantity of mineral reject generation	No proposal of mineral reject generation during during the year 2016-17.	The mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No mineral reject generation was reported during the year 2016-17.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal of mineral reject generation during during the year 2016-17.	Not applicable as there was no proposal of mineral rejects generation. The threshold value of bauxite has been kept at 30% Al ₂ O ₃ (min) and <5% SiO ₂ .

3f	Quantity of sub grade mineral generation.	No proposal of sub grade mineral generation during the year 2016-17.	Not applicable as there was no subgrade mineral generation was reported from the mine during the year 2016-17.
3g	Grade of sub grade mineral generation	No proposal of sub grade mineral generation during the year 2016-17.	Not applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method was proposed for segregating from ROM in the mining plan approved on 9/5/2016.	The blasted material is sized, sorted and loaded manually into the trucks.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No analysis or beneficiation study was proposed for sub grade mineral and rejects in the approved document.	No analysis or beneficiation study was carried out for sub grade mineral and rejects as no sub grade mineral and rejects reported to be generated from the mine.
3j	Provision of drilling and blasting in mineral benches	As per the mining plan approved for the period from 2015-16 to 2018-19 there was provision of drilling and blasting in the harder formations.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Drilling of short hole of 34 mm to 38 mm dia by jackhammer operated by compressor were in practice in the mine.

- 3k Provision of mining machineries in mineral benches
- The following machineries were proposed to be deployed in the mine as per the mining plan approved for the period from 2015-16 to 2018-19; Poclain excavator (crawler mounted): 4, Terex (tyre mounted):1, Dumper: 6, Compressor (250 cum/m): 1, Rock drill (32-38 mm dia): 3, Tractor: 1 and Dozer: 1.
- The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Hence the machineries proposed were not deployed in the mine.
- 3l Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM
- As per the mining plan approved for the period from 2015-16 to 2018-19, the bench height in soil and in overburden will be 6m x 6m and in bauxite the bench will be formed 6m x 6m as well as 3m x 3m according to the thickness of bauxite.
- The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. The height of benches in OB & mineral maintained within stipulated dimension in the mine.
- 3m Total area covered under excavation/pits
- Total area proposed to be covered under excavation was 7.07 ha (5.35 ha reclaimed area & 5.14 ha rehabilitated area) during the plan period 2015-16 to 2018-19.
- As on date of inspection 5.24 ha was covered under excavation. The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga.

- 3n Ore to OB ratio for the pit/mine during the year. As per the mining plan approved for the period from 2015-16 to 2018-19, the proposed ore to OB ratio was 1:1.24. during the year 2016-17. The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Hence the ore to OB ratio could not be verified.
- 3o Total area put in use under different heads at the end of year As per the mining plan approved for the period from 2015-16 to 2018-19, total area put to be used was as under: For quarries: 7.07 ha (5.35 ha reclaimed area & 5.14 ha rehabilitated area), Dump: nil, Road: 0.14 ha, Green belt:0.29 ha,. Total area put to use: 7.5 ha. The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection, total area put to be used was as under: For quarries: 5.24 ha (0.56 ha reclaimed area), Dump: 1.34 ha, Road: 0.14 ha, Green belt:0.29 ha,. Total area in use: 7.01ha.
- 3p Production of ROM mineral during the last five year period as applicable As per mining plan approved for the period from 2015-16 to 2018-19, proposed production of ROM mineral is given below: 2015-16: 5785 cum, 2016-17: 28679 cum, 2017-18: 28576 cum, 2018-19: 19509 cum. The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. The quantity of ROM mineral production during the last five years is given below: 2011-12: 11798 MT, 2012-13: 34445 MT, 2013-14: 57065 MT, 2014-15: 31175 MT, 2015-16: Nil.

3q	General remarks of inspecting officers on method of mining etc.	Not applicable.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. A-OTFM method of mining was adopted in the mine. The height of benches in OB & mineral maintained within stipulated dimension in the mine.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There was no proposal for dumping of topsoil, OB and mineral rejects. Simultaneous backfilling and spreading of topsoil was proposed during the plan period from 2015-16 to 2018-19.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Two old OB/waste dumps exists in the lease area. No mineral reject dump exists within the lease. Simultaneous backfilling and spreading of topsoil was done earlier in the mine.	
4b	Location of topsoil, OB and mineral reject dumps	There was no proposal for dumping of topsoil, OB and mineral rejects.	Two old OB/waste dumps exists in the southern portion of the lease area. No mineral reject dump exists within the lease.	
4c	Number of dumps within lease area and outside of lease area	There was no proposal of waste dumping within or outside the lease area during the plan period from 2015-16 to 2018-19.	Two old OB/waste dumps exists in the southern portion of the lease area. No dump exists outside the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There was no proposal of waste dumping within or outside the lease area during the plan period from 2015-16 to 2018-19.	Both the OB/waste dumps exists are located within ultimate pit limit.	

4e	Number of active and alive dumps.	There was no proposal of active dump in the the approved plan period from 2015-16 to 2018-19.	No active dump present in the lease area.
4f	Number of dead dumps.	There wsa no proposal of dead dump in the the approved document.	Two old OB/waste dumps exists in the southern portion of the lease area.
4g	Number of dumps established.	There wsa no proposal of establishment of dump as per the approved document.	The existing dumps are proposed to be rehandled completely within the plan period for backfilling the exhausted quarry. Presently the mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga.
4h	Whether Retaining wall or garland drain all along dumps are there.	There was no proposal of construction of retaining wall or garland drain as per the approved document.	No such retaining wall or garland drain was constructed along the dump.
4i	Length of Retaining wall or garland drain all along dumps	There was no proposal of construction of retaining wall or garland drain as per the approved document.	Not applicable.
4j	Number of settling ponds	There was no proposal of construction of settling pond as per the approved document.	No such settling pond created within the lease area.

4k	Specific comments of inspecting officer on waste dump management	Not applicable.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. There was no proposal for dumping of topsoil, OB and mineral rejects. Two old OB/waste dumps exists in the lease area. The existing dumps are proposed to be rehandled completely within the plan period for backfilling the exhausted quarry. Simultaneous backfilling and spreading of topsoil was done earlier in the mine.
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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.	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, there was proposal for full extraction of mineral before starting backfilling. The OB/waste to be generated during mining would be concurrently used for backfilling sreading topsoil over it.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Simultaneous backfilling and spreading of topsoil over it was in practice earlier. As on date of inspection about 0.56 ha area was backfilled.	

- 5b Area under backfilling of mined out area
- As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, there was proposal for backfilling of about 5.35ha mined out area during the plan period.
- The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled.
- 5c Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)
- As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, there was proposal for use of 34297 cum of soil for spreading over backfilled area during the plan period.
- The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled.

5d	Total area fully reclaimed and rehabilitated	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, there was proposal for backfilling / reclamation of about 5.35ha area out of 7.07ha excavated area. There was proposal for rehabilitation of 5.14 ha area over backfilled area.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled.

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).	No such proposal in the approved document.	The annual report on PMCP under rule 23E(2) of MCDR,1988 has been submitted for the year 2015-16.	
6b	Area available for rehabilitation (ha) .	There was proposal for rehabilitaion of 5.14 ha area during the plan period as per the mining plan approved for the period from 2015-16 to 2018-19.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled/reclaimed and about 0.29ha area was rehabilitated through plantation over backfilled area.	

6c	afforestation done (ha).	As per proposal, 2000 nos. of plants were to be planted covering an area of 0.8ha backfilled area during the year 2016-17.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.29ha area was covered under plantation.
6d	No. of saplings planted during the year	As per proposal, 2000 nos. of plants were to be planted covering an area of 0.8ha backfilled area during the year 2016-17.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. No plantation has been done during the year 2016-17.
6e	Cumulative no .of plants	There was no proposal for cumulative plantation.	On cumulative basis about 916 nos. of plantation were done by the lessee covering an area of 0.29 ha.
6f	Any other method of rehabilitation	No proposal available in the approved document.	Only plantation has been reported over the backfilled area for rehabilitation.
6g	Cost incurred on watch and care during the year	No proposal available in the approved document.	No information available.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal available.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56ha area has been backfilled/reclaimed.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, there was proposal for backfilling of about 5.35ha of mined out area.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled using OB/waste material.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	As per proposal, 2000 nos. of plants were to be planted covering an area of 0.8ha backfilled area during the year 2016-17.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled/reclaimed and about 0.29ha area was rehabilitated through plantation over backfilled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	There was no such proposal in the approved document.	No water reservoir constructed within lease area.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	There was no such proposal in the approved document.	Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	There is no waste land within the lease area.	Not applicable.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	There was no such proposal in the approved document.	Not applicable.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	There was no such proposal in the approved document.	Not applicable.
6p	Compliance of environmental monitoring (core zone and buffer zone)	There was proposal for environmental monitoring in the approved document.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. No environmental monitoring was carried out during the year 2016-17.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Due to non operational status of the mine, the lessee could not achieve the proposals in context to excavation schedule, production target, environmental monitoring, reclamation, backfilling etc. as per the approved document.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of mineral dispatch. There was proposal for grade wise sorting within lease area.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. There was no dispatch during the year 2016-17. The ROM produced from the mine is supplied to company's captive plant at Renukut.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Grade wise manual sorting was proposed in the approved document.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Production was not reported during the year 2016-17.	

7c	Different grade of mineral sorted out at mines.	Manual sorting and sizing was proposed in the approved document.	Presently the mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. Production was not reported during the year 2016-17.
7d	Any beneficiation process at mines	No proposal in the approved document.	No beneficiation was carried out at the mine site.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable.	Presently the mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No beneficiation was carried out at the mine site. ROM grade obtained is upgraded by blending some better quality bauxite before dispatch.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, separate removal of topsoil was proposed. The topsoil generation during 2016-17 was proposed to be 13427 cum.	Presently the mining operation in the mine is discontinued since 9/9/2014 by the order of DMO, Lohardaga. No topsoil removal figure was available.	
8b	Concurrent use or storage of topsoil	Top soil was proposed to spread over the backfilled area.	Simultaneou spreading of topsoil was done. Presentntly mine is not in operation from m9/9/2014	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There was no proposal for separate dumping of topsoil, OB and mineral rejects. Simultaneous backfilling and spreading of topsoil was proposed during the plan period from 2015-16 to 2018-19.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. Two old OB/waste dumps exist in the lease area. No mineral reject dump exists within the lease. Simultaneous backfilling and spreading of topsoil was done earlier in the mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There was proposal for simultaneous backfilling of OB/waste for restoration of excavated area.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	As per the mining plan approved for the period from 2015-16 to 2018-19 vide letter dated 9/5/2016, there was proposal for backfilling of about 5.35ha mined out area during the plan period.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled. Simultaneous backfilling and spreading of topsoil was done earlier in the mine.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	As per proposal, 2000 nos. of plants were to be planted covering an area of 0.8ha backfilled area during the year 2016-17.	The mining operation in the mine is presently discontinued since 9/9/2014 by the order of DMO, Lohardaga. No plantation has been done during the year 2016-17.
8g	Survival rate	No proposal available in the approved document on survival rate.	As reported, plantation was done earlier with about 80% survival rate.

8h	Water sprinkling on roads to control airborne dust	No specific proposal in the last approved document.	Presently the mine is not in operation since 9/9/2014.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable.	Presently the mine is not in operation since 9/9/2014 by the order of DMO, Lohardaga. As on date of inspection about 0.56 ha area was backfilled and about 0.29ha has been covered under afforestation. Simultaneous backfilling and spreading of topsoil was done earlier in the mine. The aesthetic beauty in and around the mine has not been disturbed due to mining activity.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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- 9a Status of submission of Monthly and Annual returns
- The information furnished in Annual Return for the year 2016-17 covers Part-I of General information about mine and labour employment, Part-II about Employment & wages, Part-IIA about Capital Structure, Part-III consists of Consumption of materials, Part-IV about Consumption of explosives, Part-V consists of General Geology & Mining under various sections, Part-VI about Production, Dispatch & Stock and finally Part-VII consists of Cost of production.
- Party has submitted the Monthly returns and Annual returns regularly within stipulated time for the year 2016-17.
- 9b Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager
- The mine is of 'A-OTFM' category. Full time Mining Engineer and Geologist were appointed as per Rule-42(1)(c)(i) under Rule-46 of MCDR, 1988.
- The mine is not in operation from 9/9/2014 by the order of DMO, Lohardaga. The name of Mining Engineer and Geologist submitted in the Annual return for the year 2016-17.

- 9c Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. As per Mining Plan approved on 9/5/2016 availed for the plan period 2015-16 to 2018-19, the total area proposed to be put to use during the plan period was as under :-
Quarry -7.07 ha (5.35 ha reclaimed area & 5.14 ha rehabilitated area); Road- 0.14 Ha; Waste dump - Nil; Plantation- 0.29 ha; Total area put to be under use- 7.5 ha out of total lease area 15.577 ha. Presently the mine is not in operation w.e.f 9/9/2014 by the order of DMO, Lohardaga. The total area put to use as on date of inspection was as under :-
Quarry -5.24 ha (0.56 ha reclaimed area; Road- 0.14 Ha; Waste dump - 1.34 ha; Plantation- 0.29 ha; Total area put to use- 7.1 ha out of total lease area 15.577 ha.
- 9d Scrutiny of Annual return on afforestation In Part-V, item no. 4.4 of the Annual Return for the year 2016-17, the plantation done within M.L area was given as Nil. Presently the mine is not in operation w.e.f 9/9/2014 by the order of DMO, Lohardaga. No plantation done during the year 2016-17.
- 9e Scrutiny of Annual return on mineral reject generation (Grade and quantity) In Part-V, Sec 4 of the Annual Return 2016-17, the information on mineral reject generation was Nil. No mineral reject generation from the mine was reported during the year 2016-17. The mine is not in operation w.e.f 9/9/2014 by the order of DMO, Lohardaga.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	In Part VI, item no. 1 & 2(A), of the Annual Return (2016-17), the ROM stock (opening balance) and closing stock were: Opening stock- <40% Al2O3 Grade: 2570.690 MT; Closing Stock- <40% AL2O3 Grade: 2570.690 MT.	The figure given for opening stock and closing stock were in conformable with the figure furnished through Monthly Returns.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Sale value, ex-mine price and production cost were shown in the Annual Return for the year 2016-17.	The mine is not in operation w.e.f 9/9/2014. Hence the Ex-Mine price, Sale value and Cost of production shown as Nil in the annual return for the year 2016-17.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets of the lessee was as Nil in Part-IIA of the A.R for the year 2016-17.	The mine is not in operation w.e.f 9/9/2014. The value of Fixed Assets of the lessee for the year 2016-17 was shown as Rs 58447719/- 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 2016-17, the list of machineries used were mentioned as Nil.	Presently the mine is not in operation w.e.f 9/9/2014 by the order of DMO, Lohardaga. Hence no machineries were deployed in the mine.

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