

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

**MCDR inspection REPORT
Ranchi regional office**

Mine file No : BIH/GLA/BX/204/RRO

Mine code : 07BHR32009

- (i) Name of the Inspecting : **E025**) **NAMAN EKKA**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : SH. ABHISHEK KUMAR, GEOLOGIST
Official with
Designation
- (iv) Date of Inspection : 04/01/2017
- (v) Prev.inspection date : 05/10/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JALIM AND SANAI (38.447)**
- (b) **Registration NO.** : **IBM/935/2011**
- (c) **Category** : **A Other than Fully Mech.**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **JHARKHAND**
- District : **GUMLA**
- Village : **JALIM & SANAI**
- Taluka : **BISHUNPUR**
- Post office : **BISHUNPUR**
- Pin Code :
- FAX No. : **06526-24118**
- E-mail : **N.A.**
- Phone : **06526-24016,24112,24446**
- (f) **Police Station** : **BISHUNPUR**
- (g) **First opening date** : **01/11/1983**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **VILL-- JALIM & SANAI**
correspondance **PO-BISHNPUR**
DIST-GUMLA
3. (a) **Lease Number** : **BHR0248**
- (b) **Lease area** : **12.14**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **15/10/2004**
4. **Mineral worked** : **BAUXITE** **Main**

5. Name and Address of the

Lessee : M/S HINDALCO INDUSTRIES LTD.
 AT - COURT ROAD,
 LOHARDAGA, LOHARDAGA
 JHARKHAND
 Phone:06526-22401112, 224446 & 224016.
 FAX :06526-224112 & 224445

Owner : K.N.BHANDARI
 M/s Hindalco Industries Ltd
 P.O. Renukoot Dist.
 Sonebhadra (UP) SONBHADRA
 UTTAR PRADESH
 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 : SRI AKHILESH SINHA, Full Time
 Qualification : B.E(Min)
 Appointment/ : 17/05/2010
 Termination date

Geologist

Name : SHRI ABHISHEK KUMAR, Full Time
 Qualification : M.Sc (GEOLOGY)
 Appointment/ : 17/12/2008
 Termination date

Manager

Name : SRI TRIPURARI SINGH
 Qualification : MINES FOREMAN CERTIFICATE
 Appointment/ : 17/05/2010
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	03/03/1993
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	30/03/2000
		Renewal under rule 24 MCR1960	03/12/2004
		Mining Scheme rule 12 MCDR1988	10/04/2012
		FMCP under 23C(1)	26/02/2013
		Mining Scheme rule 12 MCDR1988	19/12/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	It was proposed in the approved Scheme of Mining that simultaneous backfilling will commence after complete extraction of Bauxite horizon from the earmarked area proposed for development and production.	During the year 2016-17, simultaneous backfilling in quarry no. 2 on the Southern part of the lease was carried out.	
----	---	--	--	--

5b	Area under backfilling of mined out area	<p>In the approved Scheme of Mining dated 19.12.2014, valid for the plan period 2014-15 to 2017-18, a total of 1.7 Hect area was proposed to be backfilled during the plan period is given below in year wise manner:-</p> <ul style="list-style-type: none"> i. 2014-15: 0.62 Hc; ii. 2015-16: 0.45 Hc; iii. 2016-17: 0.42 Hc; iv. 2017-18: 0.21 Hc. <p>Total : 1.7 Hect. During the year 2014-15 to 2016-17, a total of 1.49 hect was proposed to be backfilled.</p>	<p>The total area backfilled upto 01.04.2017 is around 1.45 hect (including Plantation area of- 0.12 hect) over total retained lease area of 12.14 Hect. The year wise backfilling during the year 2014-15 to 2016-17 is as given below:-</p> <ul style="list-style-type: none"> i. 2014-15: 0.6 Hc; ii. 2015-16: 0.4 Hc; and iii. 2016-17: 0.45 Hc.. 	<p>The total area backfilled upto 01.04.2017 is around 5.95 hect (including Plantation area of- 0.12 hect) over total original lease area of 38.44 Hect.</p>
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	<p>There was proposal of concurrent backfilling and simultaneous spreading of top soil over the backfilled area in the approved Scheme of Mining dated 19.12.2014, valid for the plan period 2014-15 to 2017-18.</p>	<p>Simultaneous spreading of top soil was under process over backfilled area.</p>	

5d Total area fully reclaimed and rehabilitated

In the approved Scheme of Mining dated 19.12.2014, valid for the plan period 2014-15 to 2017-18, a total of 1.7 Hect area was proposed to be backfilled during the plan period is given below in year wise manner:-

i. 2014-15: 0.62 Hc;
ii. 2015-16: 0.45 Hc;
iii. 2016-17: 0.42 Hc;
iv. 2017-18: 0.21 Hc.
Total : 1.7 Hect. During the year 2014-15 to 2016-17, a total of 1.49 hect was proposed to be backfilled.

The total area backfilled upto 01.04.2017 is around 1.45 hect (including Plantation area of- 0.12 hect) over total retained lease area of 12.14 Hect. The year wise backfilling during the year 2014-15 to 2016-17 is as given below:-

i. 2014-15: 0.6 Hc;
ii. 2015-16: 0.4 Hc; and
iii. 2016-17: 0.45 Hc.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	It was proposed in the approved Scheme of Mining dated 19.12.2014 that during 2014-15 to 2017-18 a total of 1.7 hect and during 2014-15 to 2016-17 a total of 1.49 hect area shall be backfilled and reclaimed. Further, upto the plan period, i.e upto 2017-18, about 4.42 Ha area was to be backfilled within the retained area of 12.14 Ha.	The total area backfilled upto 01.04.2017 is around 5.95 hect (including Plantation area of- 0.14 hect) out of total lease area of 38.45 Ha and the total area backfilled upto 01.04.2017 is around 1.45 hect (including Plantation area of- 0.12 hect) over total retained lease area of 12.14 Hect.The year wise backfilling during the year 2014-15 to 2016-17 is as given below:- i. 2014-15: 0.6 Hc; ii. 2015-16: 0.4 Hc; and iii. 2016-17: 0.45 Hc.
----	--	--	--

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 was there in the approved Scheme of Mining Plan, dated 19.12.2014, valid for the plan period 2014-15 to 2017-18.	The annual report on PMCP u/r 26(2) of MCDR, 2017 was submitted by the party for the period 2016-17.	

6b	Area available for rehabilitation (ha) .	As per approved Scheme of Mining dated 19.12.2014, valid for the plan period 2014-15 to 2017-18, there was proposal for 0.3227 Ha of plantation over backfilled area of 1.7 Ha during the plan period. During 2016-17, about 0.0801 Ha area was proposed to be rehabilitated through plantation over 0.18 Ha of backfilled area.	Out of total 1.25 Ha of matured area for rehabilitation, about 0.14 Ha area was rehabilitated through plantation.
----	--	--	---

6c	afforestation done (ha).	<p>During the approved plan period of 2014-15 to 2017-18 a total of 800 no. of plantation was proposed covering an area of 0.3227 hect. The year wise afforestation programme is given below:-</p> <p>i. 2014-15: 200 plants covering 0.0813 Hc;</p> <p>ii. 2015-16: 200 plants covering 0.0812 Hc;</p> <p>iii. 2016-17: 200 plants covering 0.0801 Hc;</p> <p>iv. 2017-18: 200 plants coveringn 0.0801 Hc.</p>	<p>During 2014-15 to 2016-17, out of 0.2426 Ha of proposed afforestation area, about 80 nos. of plantation were done over 0.14 Hc area during 2016-17, over backfilled area within the retained area of 12.14 Ha. Whereas over original lease area of 38.45 Ha, 2.74 Ha area was covered under plantaion. The backlog of afforestation over backfilled area was pointed out to the lessee in the form of violation, letter issued vide letter no. BIH/GLA/BX/204/RRO, dated 17.11.2017.</p>
6d	No. of saplings planted during the year	<p>During 2016-17, about 200 nos. of plantation within the lease area were proposed as per approved Scheme of Mining dated 19.12.2014, valid for the plan period 2014-15 to 2017-18.</p>	<p>During the year 2016-17, about 80 nos. of plantation were done within lease area. The backlog of plantation was pointed out to the lessee in the form of violation letter, issued vide letter no. BIH/GLA/BX/204/RRO, dated 17.11.2017. The actual figure of year wise plantation done was not available.</p>

6e	Cumulative no .of plants	As per proposal made in the approved Scheme of Mining, the proposed no. of plantation during the year 2014-15 to 2017-18 were 800 covering an area of 0.3227 Hc.	The actual no. of plantation done so far is not available. During 2016-17, about 80 nos. of plantation were done within the lease over backfilled area.
6f	Any other method of rehabilitation	Other than plantation no further proposal was available.	Only plantation has been reported as there was no other method proposed.
6g	Cost incurred on watch and care during the year	No proposal available in the approved Scheme of Mining dated 19.12.2014.	No information has been reported by the lessee.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	In the approved Scheme of Mining dated 19.12.2014, a total of 1.7 Hect area was proposed to be backfilled and 0.3227 Ha area was proposed to be rehabilitated through plantation over backfilled area during the plan period of 2014-15 to 2017-18. Further, upto the plan period of 2017-18, a cumulative of 4.42 Ha area was proposed to be backfilled and 0.3227 Ha area was proposed to be rehabilitated through plantation over backfilled area.	The total area backfilled upto 01.04.2017 is around 1.45 hect (including Plantation area of- 0.14 hect) over total retained lease area of 12.14 Hect. Further, the total area backfilled upto 01.04.2017 is around 5.95 hect (including Plantation area of- 0.14 hect) over total original lease area of 38.45 Hect. During 2016-17, about 0.45 Ha area was backfilled and 0.14 Ha area was rehabilitated through plantation over backfilled area.	The dimension of backfilled area (during 2016-17) was (i) Q2-6: 60m X 37m X 4m and (ii) Q3: 70m X 33m X 2m.
----	---	---	--	---

6i Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings

It was proposed in the Scheme of Minming that backfilling will be done by waste material followed by spreading of top soil. It was proposed that during the plan period of 2014-15 to 2017-18, about 219611 cu.m of OB (including 200850 cu.m of Soil & Morrum) shall be used for backfilling. The proposed year wise material to be used for backfilling is given below:-

i. 2014-15: 78120 cu.m;
ii. 2015-16: 57339 cu.m;
iii. 2016-17: 53638 cu.m; &
iv. 2017-18: 30514 cu.m.

The yera wise OB/Waste material used for backfilling is given below:-

i. 2014-15: 32640 MT;
ii. 2015-16: 72235 MT;
and
iii. 2016-17: 58400 MT with cumulative figure of 657038 MT.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	In the approved Scheme of Mining valid for the plan period 2014-15 to 2017-18, there was proposal for 800 nos. of plantation over reclaimed area of 0.3227 hect. Further, during the year 2016-17 there was proposal for 200 nos. of plantation over 0.0801 hect of backfilled area.	As per available record, about 80 nos. of plantation have been done within ML area during the period 2016-17 over an area of 0.14 Hect. The actual no. of cumulative plantation figure is not available.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	In the approved Scheme of Mining dated 19.12.2014 valid for the plan period 2014-15 to 2017-18, there was no proposal of making water reservoir as simultaneous backfilling was proposed.	No water reservoir has been created, as there was no such proposal.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	There was no other proposal of rehabilitation by any other means except plantation.	Other than plantation no other means of rehabilitation has been carried out.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	There is no waste land within the lease area hence there was no proposal of afforestation of waste land.	Not applicable as there is no waste land within the lease area.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal available.	Not applicable.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal available.	Not applicable as there was no such proposal in absence of Waste land within ML area.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring of water, air, soil and noise within the lease area and core zone was proposed in the approved Scheme of Mining.	Regular monitoring of air, water, soil and noise are being carried out by the lessee through SGS India Pvt. Ltd and report of the same are being submitted to this office regularly on quarterly basis.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	It was proposed in the approved Scheme of Mining dated 19.12.2014, that, out of total cumulative excavated area of 10.83 Ha upto the plan period 2017-18, about 4.42 Ha area will be backfilled. Further, 0.32 Ha area was proposed to be covered under Rehabilitation through plantation over backfilled area during the plan period 2014-15 to 2017-18.	Efforts were being made by M/s HINDALCO industries Ltd. to adhere with the proposal made in the approved Scheme of Mining in context to excavation schedule, production target, reclamation proposal, backfilling proposal, environmental monitoring proposal etc.	As on 01.04.2017, about 8.43 Ha area was covered under excavation against proposal of 10.83 Ha, about 1.45 Ha area was covered under backfilling against proposal of 4.42 Ha and about 0.14 Ha area was covered under rehabilitation through plantation against proposal of 0.32 Ha.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

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 :

(NAMAN EKKA)

Indian Bureau of Mines