

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

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/GLA/BX/236/RRO

Mine code : 07BHR32022

- (i) Name of the Inspecting : **S010**) **G.C. SETHI**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Bhupal Reddy, Representative of the lessee
Official with
Designation
- (iv) Date of Inspection : 18/08/2015
- (v) Prev.inspection date : 05/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HARUP (45.6)**
- (b) **Registration NO.** : **IBM/4093/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : JHARKHAND
District : GUMLA
Village : HARUP
Taluka : BISHUNPUR
Post office : BISHUNPUR
Pin Code :
FAX No. : N.A.
E-mail : N.A
Phone : 06526-24042, +91-930480493:
- (f) Police Station : BISHUNPUR
- (g) First opening date : 12/04/1990
- (h) Weekly day of rest : TUE
2. Address for : VILL-HARUP
correspondance : BISHNUPUR
DIST-GUMLA
3. (a) Lease Number : BHR0227
- (b) Lease area : 45.65
- (c) Period of lease : 20
- (d) Date of Expiry : 25/03/2010
4. Mineral worked : BAUXITE Main

5. Name and Address of the

Lessee : C.K.T.POPAT
(LATE) C.K.T.POPAT PALMER
GANJ LOHARDAGA, -835 302
LOHARDAGA JHARKHAND
Phone: 24042
FAX :

Owner : C.K.T.POPPAT
NEW ROAD PALMERGANJ
LOHARDAGA, JHARKHAND
LOHARDAGA JHARKHAND
Phone: 06526-24042
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 05/10/1989
Plan/Scheme of Mining : Renewal under rule 24 MCR1960 04/09/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	07 nos. of bore holes were proposed to be drilled during the year 2013-14 as envisaged in the approved mining plan valid for the period from 2010-11 to 2014-15.	No bore hole was drilled during the year 2013-14 due to temporary discontinuance of the mine for want of EC.	Back log regarding exploration in the form of 07 BHS still exists.
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Not applicable.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal during the year 2014-15.	Not applicable.	Nil
1e	Balance reserve as on 01/04/20	The reserves/resources position as on 01.04.2011: Proved Reserves (111)-235776 tonnes, Probable Reserves (122)-82554 tonnes & Resources (211 +222)-176226 tonnes	After depletion of production during 2011-12 (5881 tonnes) & 2012-13 (3789 tonnes), the reserves figures arrived at 226106 tonnes as on 01.04.2015. The resources position remains the same.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable.	Due to temporary discontinuance of the mine w.e.f 21.01.2013 for want of EC & CTO, the lessee could not undertake the proposed exploration work.	Nil

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the mine in Quarry No.1B in southern part of the lease area during the year 2014-15 as envisaged in the approved mining plan.	No work could be carried out as the mine was not in operation due to EC & CTO during the year 2014-15.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches each one in topsoil, overburden and bauxite zone were proposed as envisaged in the approved mining plan for the year 2014-15.	During the year 2014-15, the mine was not in operation due to want of EC & CTO.	As the mine was not in operation during the year 2014-15, the deviation arises under Rule 13(1) of MCDR,1988 is ignored.
2c	Stripping ratio or ore to OB ratio	The proposed stripping ratio was for 1:0.22 during the year 2014-15 as envisaged in the approved mining plan.	As the mine was not in operation during the year 2014-15, there was no production and waste handling, thereby the stripping ratio could not computed.	Nil
2d	Quantity of topsoil generation in m3	During the year 2014-15, there was a proposal to generate 17432 tonnes of topsoil from the mine as per the approved mining plan.	No topsoil was generated during the year 2014-15, since the mine was not under operation due to want of EC & CTO.	Nil
2e	Quantity of overburden generation in m3	There was a proposal to generate 65434 tonnes of overburden/waste materials during the year 2014-15 as envisaged in the approved mining plan.	No overburden/waste materil was generated during the year 2014-15, as the mine was not under operation due to want of EC & CTO.	Nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable.	As the mine was not under operation, no developmental activities were carried out in the mine during the year 2014-15.	Nil
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	During the year 2014-15, only the Quarry No.1B was proposed under excavation planning as envisaged in the approved mining plan.	As the mine was not under operation during the year 2014-15 due to want of EC & CTO, the quarry proposed for development & production could not worked.	Nil
3b	Quantity of ROM mineral production proposed	There was a proposal to produce 80007 tonnes of bauxite during the year 2014-15 as envisaged in the approved mining plan.	No production was reported due to non-operational status of the mine during teh year 2014-15 due to want of EC & CTO.	Nil
3c	Recovery of sailable/usable mineral from ROM production	The recovery of salable Bauxite was proposed to be 80% of the total ROM production during the year 2014-15 as envisaged in the approved mining plan.	No bauxite production was reported during the year 2014-15 due to the non-operational status of the mine,which is due to want of EC & CTO. Therefore, the reported recovery of salable bauxite is considered as Nil.	Nil
3d	Quantity of mineral reject generation	There was no proposal for generation of mineral rejects during the year 2014-15.	Nil	Nil

3e	Grade of mineral rejects generation and threshold value declared.	No such proposal has been given in the approved mining plan for the year 2014-15.	Nil	Nil
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	No such specific proposal in the approved mining plan.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method was proposed for segregating from ROM. The total ROM was proposed to be sorted out by hand picking at mine site.	The same practice is being followed in the mine as reported during the inspection of the mine.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	The drilling & blasting was proposed in the approved mining plan for the year 2014-15.	The same practice is being followed in the mine.	Nil
3k	Provision of mining machineries in mineral benches	Poclain, Dumper & Tippers were proposed to be deployed in the mine as envisaged in the approved mining plan.	As the mine was not under operation during the year 2014-15, no mining machineries were deployed in the mine.	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the OB benches were proposed for 3m and tfor ore zone , the height of the benches were restricted to 6m as envisaged in the approved mining plan for the year 2014-15.	Height of benches in OB: 3m, Height of the benches in Ore: 6m	Nil
3m	Total area covered under excavation/pits	There is no specific proposal for land degradation for each year of the mining plan period. However, there was a proposal to excavate 3.13ha of area during the entire approved mining plan period from 2010-11 to 2014-15.	There was no land degradation during the year 2014-15, as the mine was not under operation due to want of EC & CTO. However, commulatively, an extent of 5.56ha has been degraded so far as reported during the inspection.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	The proposed Ore:OB ratio was 1:1.0.22, as envisaged in the approved mining plan for the year 2014-15.	The Ore: OB ratio for the year 2014-15 could not evaluated, since the mine was not under operation and no production & waste handing was reported.	Nil

3o	Total area put in use under different heads at the end of year	There is no specific proposal for land degradation in different heads for the year 2014-15 in the approved mining plan. However, the proposed land degradation status during the entire approved mining plan period from 2010-11 to 2014-15 in different counts is as follows: Quarry-7.86ha (including reclaimed area of 1.18ha), Road-2.86ha, OB dump-0.043ha, Laterite dump-0.265ha, Parapet wall-0.054ha, Garland drain-0.057 & Green belt-0.96ha.	No land was gegraded during the year 2014-15, as the mine was not in operation due to want of EC & CTO. However, during the period from 2010-11 to 2014-15, the land gedradation status on different counts is as follows: Quarry-5.56ha(including the reclaimed area of 1.0ha), Waste disposal-0.043ha & Road-2.77ha.	Nil
3p	Production of ROM mineral during the last five year period as applicable	The proposed production status for the period from 2010-11 to 2014-15 as envisaged in the mining plan is as follows: 2010-11: 6870 tonnes (actual), 2011-12: 65434 tonnes ,2012-13: 70595 tonnes, 2013-14: 74961 tonnes & 2014-15: 80007 tonnes.	2010-11: 6870 tonnes, 2011-12: 5881 tonnes, 2012-13: 3789 tonnes, 2013-14: Nil & 2014-15: Nil	Nil

3q	General remarks of inspecting officers on method of mining etc.	Not applicable.	The mine was not in operation during the year 2014-15 due to want of EC & CTO but as per the approved mining plan, the mining operations were proposed by category -A (fully mechanised methods).	Nil
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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 specific proposal for dumping during the year 2014-15. However, two nos. of topsoil dumps were proposed during the mining plan period from 2010-11 to 2014-15. In addition to the proposed topsoil dumps, there were three nos. of existing dumps are available in the lease area.	No new dump has been created during the period from 2010-11 to 2014-15 due to the non-operational status of the mine.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Out of the two proposed topsoil dumps, one was proposed in eastern part of the lease area and the other was proposed in southeastern corner of the lease area.	No topsoil dump was created due to non-operational status of the mine.	Nil
4c	Number of dumps within lease area and outside of lease area	No such proposal is given in the approved mining plan.	Not applicable.	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Not applicable.	Nil
4e	Number of active and alive dumps.	Two nos. of topsoil dumps as envisaged in the approved mining plan during the period from 2010-11 to 2014-15.	All the three existing dumps are considered as active dumps, as reported during the inspection.	Nil
4f	Number of dead dumps.	There was no dead dumps within the lease area.	No dead dump found in the lease area.	Nil
4g	Number of dumps established.	No such proposal in the approved mining plan.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain were proposed around the proposed topsoil dump as per the approved mining plan.	The retaining wall and garland drain have not been constructed, as the proposed topsoil dumps have not been created.	Nil
4i	Length of Retaining wall or garland drain all along dumps	The length of the proposed retaining wall & garland drain for both the topsoil dumps are 100m & 200m respectively as envisaged in the approved mining plan.	No retaining wall & garland drain were constructed due to non-operational status of the mine.	Nil
4j	Number of settling ponds	No such proposal in the approved mining plan.	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Not applicable.	The existing three nos. of waste dumps are active and there was no problem in waste dump management.	Nil

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.	Concurrent backfilling was proposed in the approved mining plan during the year 2014-15.	Concurrent backfilling was not undertaken due to non-operational staus of the mine during the year 2014-15.	Nil
5b	Area under backfilling of mined out area	No specific proposal for backfilling during the year 2014-15. However, during the mining plan period from 2010-11 to 2014-15, an extent of 1.18ha of area was proposed to be backfilled.	No backfilling was undertaken during the year 2014-15 due to the non-operational staus of the mine. However, an extent of 1.00ha area has been backfilled during the period from 2010-11 to 2014-15.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The topsoil so generated was proposed to be spread over the backfilled area as envisaged in the approved mining plan.	The topsoil generated from the mine during the mining plan period was spread over the backfilled area as per the proposal envisaged in the mining plan.	Nil
5d	Total area fully reclaimed and rehabilitated	An extent of 1.18ha was proposed to be reclaimed during the mining plan period.	An extent of 1.00ha of area has been reclaimed during the mining plan period.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable.	Commulatively, an extent of 2.80ha of mined out area has been reclaimed/backfilled so far.	Nil

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.	The annual return on PMCP under Rule 23E(2) for the year 2014-15 has not been received by this office.	Nil

6b	Area available for rehabilitation (ha) .	No such proposal in the approved mining plan. However, an extent of 1.18ha of area was proposed to be backfilled during the mining plan period from 2010-11 to 2014-15.	An extent of 1.00ha of area has been backfilled during the approved mining plan period but the status of rehabilitation is not available.	Nil
6c	afforestation done (ha).	No specific proposal of afforestation during the year 2014-15. However, during the mining plan period, an extent of 0.96ha of area was proposed under afforestation by 1536 nos. of saplings.	Only 500 saplings were planted, over an extent of 0.20ha of area and more plantation could not be done as the mine was not under operation on a regular basis due to want of EC & CTO.	nIL
6d	No. of saplings planted during the year	During the year 2014-15, only 320 nos. of saplings were proposed to be planted as envisaged in the approved mining plan.	No plantation was done during the year 2014-15 due to non-operational status of the mine.	Nil
6e	Cumulative no .of plants	No such proposal in the approved mining plan.	The details of commulative plantation is not available.	Nil
6f	Any other method of rehabilitation	No such proposal in the approved mining plan.	Nil	Nil
6g	Cost incurred on watch and care during the year	No such proposal in the approved mining plan.	Not available.	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal in the mining plan.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	During the mining plan period from 2010-11 to 2014-15, an extent of 1.18ha was proposed to be backfilled but the quantities of waste materials required for such backfilling has not been given in the mining plan.	An extent of 1.00ha of mined out area has been backfilled during the mining plan period. No information regarding the quantities of waste materials backfilled is available.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	There was no such afforestation proposal over the backfilled area in the approved mining plan.	The plantation of 500 saplings were done along the lease boundary over an extent of 0.20ha during the mining plan period.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal in the approved mining plan.	Not applicable.	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	There was no other specific proposal in the mining plan.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Nil	Not applicable.	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	The water & air monitoring within the lease area was proposed in the mining plan.	Monitoring of ambient air and water quality was done in periodic interval and the same was found within the permissible limits.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable.	Efforts were mad by the lessee to implement the proposal given in the approved mining plan.	Nil

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 is available.	The year wise despatch figures is given below: 2010-11: 6870 tonnes, 2011-12:5881 tonnes, 2012-13: 3789 tonnes,2013-14: Nil & 2014-15: Nil	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual sorting and blending to ensure the required grades was proposed in the mining plan.	The same practice was followed as envisaged in the approved mining plan.	Nil

7c	Different grade of mineral sorted out at mines.	No such specific proposal in the approved mining plan.	There are two types of ore stacks were made in the mine site. One was of 40% Al ₂ O ₃ & above and the other of below 40% Al ₂ O ₃ grade materials. The low grade material was blended with the high grade in appropriate calibrated proportion before despatch.	Nil
7d	Any beneficiation process at mines .	Manual sorting and blending to ensure the required grade was proposed in the approved mining plan.	The same practice is being followed at the mine site.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable.	The mineral conservation aspect was skillfully maintained by the lessee by deploying suitable persons for sorting & sizing etc.	Nil

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The proposed removal status of topsoil during each year of the approved mining plan period i.e from 2010-11 to 2014-15 is as follows: 2010-11: Lapse year, 2011-12: 15156 tonnes, 2012-13: 15867 tonnes, 2013-14: 15867 tonnes & 2014-15: 17432 tonnes.	Year wise generation status of top soil from 2010-11 to 2014-15 is not available. However, the topsoil so generated has been spread over the reclaimed portion of Quarry No. 1B.	Nil

8b	Concurrent use or storage of topsoil	There was a proposal for storage of topsoil over an extent of 1.19ha in the lease area.	No topsoil dump/stack was created and the topsoil so generated has been utilised for spreading over the reclaimed area of quarry no.1B.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There was a proposal for separate dumping of waste and topsoil in SE & Eastern part of the lease area respectively.	In actual, there were three existing old waste dumps seen in the lease area and no fresh dump was created.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	An extent of 1.18ha of area was proposed to be backfilled during the period from 2010-11 to 2014-15.	An extent of 1.00ha of mined out area has already been backfilled during the aforesaid period.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such specific proposal in the approved mining plan.	An extent of 1.00ha of mined out area has already been reclaimed/backfilled.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No existing plantation was reported in the last approved mining plan. There was a proposal to plant 1536 nos. of saplings during the period from 2010-11 to 2014-15.	As per the available record, only 500 nos. of saplings were planted during the last five years. More plantation could not be done due to non-operational status of the mine due to want of EC & CTO.	Nil
8g	Survival rate	There was no proposal for survival rate in the approved mining plan.	During the field visit, it was reported that, the survival rate was about 80%.	Nil

8h	Water sprinkling on roads to control airborne dust	No such specific proposal in the approved mining plan.	As reported, waster sprinkling was done on the haulage road in periodical manner as per the requirement.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable.	As the lease area contains jungle jhari land, there were natural vegetation with in the lease area, which enhances the aesthetic beauty of the mine.	Nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The information furnished in the annual return submitted by the party for the year 2014-15 covers Part-I, Part-II, Part-IIA, Part-III, Part-IV, Part-V, Part-VI & Part-VII for different headings.	The party has submitted all the monthly and annual returns to this office in the prescribed format within the stipulated time.	Since the mine was not under operation during the year 2014-15, Nil returns have been received by this office.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Since, the mine is categories under category A fully mechanised, a full time mining engineer holding degree in mining engineering and a full time geologist having post graduate degree in geology shoudl be employed under Rule 42(1)(c)(i) of MCDR,1988.	In the annual return submitted by the lessee in Form H-3 of MCDR,1988, the name of the mining engineer & geologist has not been furnished.which indicate that, the party has not employed the mining engineer & geologist as required under the statute. This is due to non-operational status of the mine during the year 2014-15.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The land use pattern furnished in the annual return submitted by the party for the year 2014-15 was as under: Area exploited: 3.73ha, Reclaimed: 1.00ha, Dump area: 0.043ha & Road: 2.77ha	The aforesaid data furnished in the annual return is in order.	Nil
9d	Scrutiny of Annual return on afforestation	The information furnished on account of afforestation is indicated to be Nil.	The data has been verified and found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The information on generation of mineral rejects is stated to be Nil.	The data has been verified and found in order.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Production of ROM: Nil, Opening balance: 102.395 tonnes, Grade: 40-45% Al2O3 contains	The information has been verified and found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value shown: Nil, Ex-mine price: Nil & Cost of production: Nil	The same has been verified and found in order, since the mine was not under operation during the year 2014-15.	Nil
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets is stated as Nil. this is due to non-operational status of the mine during the year 2014-15.	The same has been verified and found in order.	Nil

9k	Scrutiny of Annual return on mining machineries	Only the dumper of 16 tonnes was shown in the list of mechaneries.	The dumper was withdrawn from the mine after the mine became non-operational.	Nil
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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
Rule 13(1)	13/08/2014		Rule 13(1)	13/08/2014	
Rule 24	13/08/2014		Rule 24	13/08/2014	
Rule 27(4)	13/08/2014		Rule 27(4)	13/08/2014	
Rule 29	13/08/2014		Rule 29	13/08/2014	
Rule 42(1)(C)(I)	13/08/2014		Rule 42(1)(C)(I)	13/08/2014	
Rule 45(5)(a)	13/08/2014		Rule 45(5)(a)	13/08/2014	
Rule 45(5)(b)	13/08/2014		Rule 45(5)(b)	13/08/2014	

Date :

(G.C. SETHI)

Indian Bureau of Mines