

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

MCDR INSPECTION REPORT

Ranchi regional office

Mine file No : BIH/GUM/BX/216/RRO

Mine code : 07BHR32014

- (i) Name of the Inspecting : **S001**) **B K SINGH**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri A R Sridharan ME Representative of Geomax
Official with
Designation
- (iv) Date of Inspection : 26/07/2016
- (v) Prev.inspection date : 01/12/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NEW AMPTIPANI (49.27)**
- (b) **Registration NO.** : **IBM/5041/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **JHARKHAND**
- District : **GUMLA**
- Village : **AMPTIPANI**
- Taluka : **BISHUNPUR**
- Post office : **JOBHIPAT**
- Pin Code :
- FAX No. : **N.A.**
- E-mail : **N.A.**
- Phone : **06565-226016**
- (f) **Police Station** : **BISHUNPUR**
- (g) **First opening date** : **15/07/1985**
- (h) **Weekly day of rest** : **THU**
2. **Address for correspondance** : **VILL-KARKAPAT**
BISHUNPUR
DIST-GUMLA
3. (a) **Lease Number** : **BHR0252**
- (b) **Lease area** : **49.07**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **26/05/2005**
4. **Mineral worked** : **BAUXITE** **Main**

5. Name and Address of the

Lessee : AWADHESH KUMAR SINGH
 AT -CHANDWA LATEHAR
 JHARKHAND
 Phone:06565226016 & 9431390666
 FAX :

Owner : AWADHES KUMAR SINGH
 AT/PO-CHIRKUNDA DIST-
 DHANBAD JHARKHAND DHANBAD
 JHARKHAND
 Phone: 06552-23005,220
 FAX :

Mining Engineer

Name : SRI G.D.TEWARY,Full Time
 Qualification : B.Tech (Min)
 Appointment/ :
 Termination date

Geologist

Name : ARBIND RANJAN,Full Time
 Qualification : M. Sc. (Applied Geolgy)
 Appointment/ :
 Termination date

Manager

Name : SRI GANGADHAR TEWARY
 Qualification : B.Tech (Min)
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	31/01/1997
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	22/03/2013
	:	Mining Scheme rule 12 MCDR1988	22/03/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	In the last approved document for the plan period 2011-12 to 2014-15 there was proposal to explore the area by 7 BHoles during 2013-14.	No exploration carried .	Mine was not working during july 2012 to April 2014 due to pendency of EC and CTO.
1b	Exploration over lease area for geological axis 1 or 2	In the present approved document for the plan period 2015-16 to 2019-20 there is proposal of 9 BH during 2017-18, with 100X100m spacing and total meterage 135mts.	Lease area already fully explored .During 2010-11 , 13 DTH boreholes carried at a spacing of 100X100M,total meterage- 132.8m,max depth was 10.5m and min depth - 10.0m .	No exploration carried as per proposal,
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During 2015-16 ,lapse period ,no proposal.	No exploration.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	In the present approved document ,proposal is there to explore 9.0 ha area during 2017-18.	Exploration proposal for 2017-18.	

1e	Balance reserve as on 01/04/20	As per approved Mining Plan for the plan period 2015-16 to 2019-20, dated 12/09/2016, Reserve as on 01/04/2016 is (111) : 507939 MT (122) : 993571 MT	As per approved Mining Plan dated 12/09/2016, Reserve as on 01/04/2016 is (111) : 507939 MT (122) : 993571 MT	Plan period 2015-16 is lapse period.
1f	General remarks of inspecting officers on geology, exploration etc	Bauxite deposit occurs associated with latterite cappings in the form of irregular and discontinuous lenses or tabular bodies. Average thickness of bauxite in this area is about 5mts.	Bauxite deposit occurs associated with latterite cappings in the form of irregular and discontinuous lenses or tabular bodies. Average thickness of bauxite in this area is about 5mts. Bauxite in this lease is mostly gibbsitic.	During 2010-11 exploration carried by 13 DTH boreholes .No further exploration carried.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No proposal, 2015-16 was lapse period	Actual mining carried in quarry no 2 and 4 and bth quarries were merged.	Plan period of approved Mining Plan is 2015-16 to 2019-20,2015-16 is lapse period.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seprate benches for top soil ,OB and Bauxite are proposed,	Seprate bench for OB ,Top soil and bauxite were there.	
2c	Stripping ratio or ore to OB ratio	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Total ROM during 2015-16 was 49741 MT and OB removed -69637 mT,Stripping ratio- 1:1.39 T	

2d	Quantity of topsoil generation in m3	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Data not available.	
2e	Quantity of overburden generation in m3	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	OB generated during 2015-16 was 69637 MT	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	During the plan period and lapse period mining work was to done in merged quarry no 2 & 4 .	As per approved document during the plan period mining work to restricted to quarry no 2 &4.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits quarry no 2 and 4 were proposed or production nduring the plan period 2015-16 to 2019-20.	Quarry no 2 and 4 were used for production during 2015-16(lapse period).	
3b	Quantity of ROM mineral production proposed	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Actual ROM produced during 2015-16 was 49741 MT.	
3c	Recovery of sailable/usable mineral from ROM production	Proposed recovery of sailable/usabl e mineral from ROM production was 80%.	Actual recovery of sailable/usable mineral from ROM production was 80%.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.
3d	Quantity of mineral reject generation	No proposal for reject generation.	No reject is generated during mining in this lease.	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Not Applicable, as ther is no generation of reject.	

3f	Quantity of sub grade mineral generation.	No proposal for subgrade generation.	No sub grade generated.
3g	Grade of sub grade mineral generation	Not Applicable	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Mannual method was proposed to be adopted for segregating from ROM.	Mannual method used for segregating from ROM.
3j	Provision of drilling and blasting in mineral benches	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	The OB ranging from 1.1 to 2.6 m in thickness consist of morrum and laterite are drilled by using 88-100mm dia drill and blasted before removing. The wagon drill with compressed air drill used for drilling the hole.
3k	Provision of mining machineries in mineral benches	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	No machinery except jackhammer was used during mining, For blasting DTH machine was used for making holes.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Mine worked under 'A' OTFM, Height of the OB top soil and ore were kept within 4-4.5 m .
3m	Total area covered under excavation/pits	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Total area covered under current excavation was 7.29ha
3n	Ore to OB ratio for the pit/mine during the year.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	During 2015-16 Total ROM produced 49741 MT and OB removed 69637 MT with ratio 1:1.39/T

3o	Total area put in use under different heads at the end of year	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Existing land use pattern as per approved document was: Quarry including 0.58ha backfilling :5.536ha Road : 0.987 ha office : 0.005 ha OB dump : 0.776 ha Green Belt :0.10 ha	
3p	Production of ROM mineral during the last five year period as applicable	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	. 2010-11: 10070 MT; ii. 2011-12: 15280 MT; iii. 2012-13: 4090 MT; iv. 2013-14: Nil; v. 2014-15: 22910 MT; vi. 2015-16: 49741 MT; and	
3q	General remarks of inspecting officers on method of mining etc.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Ming work was carried in quarry no-2&4, During the further four year plan perioq mining will be restricted to quarry no -2 & 4.	Mechanised method adopted for 'A' cat OTFM mine.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of seprate dumping of top soil, and OB instead Concurrent backfilling and rehandling of old dumps proposed.	Concurrent backfilling of mined out areas is practised, only temporary dumping is done which will be rehandled as proposed..	
4b	Location of topsoil, OB and mineral reject dumps	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	Five dumps are there in the lease area where old top soil and OB are dumped. Presently concurrent backfilling of mined out areas are practiced and spreading of top soil over them.	
4c	Number of dumps within lease area and outside of lease area	No such pproposal	Five dumps are within the lease area.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	All dumps though temporary in nature but within the ultimate pit limit.	Lessee has proposed to rehandling the dumps for backfilling the mined out areas.
4e	Number of active and alive dumps.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	All five dumps are active and alive.	
4f	Number of dead dumps.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	There are five dumps in the lease area but they are not dead dumps.	All dumps are active and proposed to be rehandeled in due course for backfilling.
4g	Number of dumps established.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20	No dump has been stablised as they are proposed to be rehandeled.	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal of retaining wall.	No retaining wall or garland drain allong the dumps have been constructed.	
4i	Length of Retaining wall or garland drain all along dumps	Not Applicable		
4j	Number of settling ponds	No such proposal for settling pond.	NIL	
4k	Specific comments of inspecting officer on waste dump management	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	There are five waste dumps are there, but they are temporary in nature and proposed to be rehandeled for backfilling.	As the dumps are within the UPL they are proposed to be rehandeled and used for backfilling.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Concurrent backfilling with part extarction of mineral from mined out ares has been proposed.	Siultaneous backfilling of partly extacted of mineral from quarry no 2 and 4.	
5b	Area under backfilling of mined out area	Abot 6.8 ha was proposed to be backfilled up to 2015-16.	only 0.58 ha has been backfilled as mine was not in operation wanting E C.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Concurrent backfilling and spread of top soil over them is practiced. is in progress. Mining work could be carried as per last approved document pending EC.	Presently mine is not in operation pending renewal of the lease.
5d	Total area fully reclaimed and rehabilitated	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Total area fully reclaimed about 2.45 ha.Target could not be achived pending renewal of the lease.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Mine was close during 2012-14 pending EC .	Mine is closed for renewal of the lease by state govt.

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).	NA	lessee has not submitted Annual report for 2015-16 timely.	
6b	Area available for rehabilitation (ha) .	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	About 2.45 ha available for rehabilitation.	

6c	afforestation done (ha).	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Area used for afforestation was 0.47 ha.
6d	No. of saplings planted during the year	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	About 150 sapplings planted during the year.
6e	Cumulative no .of plants	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Information not furnished.
6f	Any other method of rehabilitation	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	No other method of rehabilitaion work carried during the year.
6g	Cost incurred on watch and care during the year	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Information not furnished.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Total area under backfilling wsa 0.47 hect. during 2015-16.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	Not Applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Area about 0.47 ha has been reclaimed and rehabilitated by afforestation.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal.	Not Applicable.	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal.	Not Applicable.	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal.	Not Applicable.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal.	Not Applicable.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal.	Not Applicable.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	During 2015-16 is lapse period and no information available regarding environmental monitoring carried out by the lessee.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Up to 2015-16 about 7.79 ha area was covered under excavation ,0.776 ha covered under dump 0.47 ha under backfilled and afforestation.	Mine is not working pending renewal of lease by state govt.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Total ROM mineral despatched during 2015-16 was 49741 MT and no gradewise sorting carried within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Manual sorting adopted for sorting.	
7c	Different grade of mineral sorted out at mines.	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	There is no grading but blending high grade ore with lower grade ore before despatch.	
7d	Any beneficiation process at mines	No such proposal.	No beneficiaton process adopted in mine.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	No grading of ore but blending of high grade ore with lower grade ore.	Mine is not in ooperation pending second renewal.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Top soil is removed seprately and being utilised over backfilled area for plantation.	
8b	Concurrent use or storage of topsoil	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	While mining top soil used concurrently over backfilled mined out areas.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	five old dumps are there for OB and top soil. But in present approved document no such proposal but concurrent back filling of mined out areas and spread of top soil over them practiced.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	About 0.47 ha area has been backfilled using OB and waste rock and top soil spread over them and afforestation carried.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	As per available information 0.47 ha area has been backfilled and rehabilitated by afforestation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	About 150 plantation carried over 0.47 backfilled area after spread of soil over them as part of rehabilitation programme,
8g	Survival rate	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	During the year 2015-16 the information furnished by the mine management was about 40%.
8h	Water sprinkling on roads to control airborne dust	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Mine management has not deployed any water sprinkler on roads to control to control airborne dust.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No Proposal, 2015-16 is lapse period of approved document plan period 2015-16 to 2019-20.	Lessee has used only about 8 ha area, there is no major disturbance to aesthetic beauty around the mine area.	The lessee has utilised only about 8ha area for mining and allied activities most of the area still lies intact. Area surrounded by thick vegetation of forest land.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee has submitted the Annual return after the issue of Violation letter.	Lessee has tried to furnish information as far as possible in relevent items.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per Annual Return Mr Gangadhar Tiwari is the Mining Engineer and Sri Arbind Ranjan is Geologist.	Both Mining engineer and Geolosist were absent during the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As per Annual Return 2015-16 Land use pattern given is as follows: Alreaady exploited 7.792ha, area under current working: 4.6ha Area reclaimed 0.47ha, Area used for waste disposal-0.5ha Area used for plant and Building ; 1.1 ha.	As per Annual Return 2015-16 Land use pattern given is as follows: Alreaady exploited 7.792ha, area under current working: 4.6ha Area reclaimed 0.47ha, Area used for waste disposal-0.5ha Area used for plant and Building ; 1.1 ha.	

9d	Scrutiny of Annual return on afforestation	No of trees planted during 2015-16 was 100 within lease area covering 0.40 ha.	No of trees planted during 2015-16 was 100 within lease area covering 0.40 ha. data furnished seems to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generated during 2015-16 was NIL.	There is no reject is generated during mining in this lease.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per Annual Return 2015-16 Opening Stock- 00,ROM produced-49741 Mt and closing stock was 00.	As per Annual Return 2015-16 Opening Stock- 00,ROM produced-49741 Mt and closing stock was 00.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information furnished in Annual Return 2015-16 ,Cost of production- Rs 473/-per tonne. Sale value and Ex mine price not given.	Information furnished in Annual Return 2015-16 ,Cost of production- Rs 473/-per tonne. Sale value and Ex mine price not given.	
9h	Scrutiny of Annual return on fixed assets	Value of Fixed assets and Depreciassion on fixed assets shown as NIL	Value of Fixed assets and Depreciassion on fixed assets shown as NIL	
9k	Scrutiny of Annual return on mining machineries	As per Annual Return type of machiner used during 2015-16 was : BackHoe : 0.9cum :01 Dumper : 9.0MT:04 Rock drill : 100MM :01	As per Annual Return type of machines used during 2015-16 was : BackHoe : 0.9cum :01 Dumper : 9.0MT:04 Rock drill : 100MM :01	Mine is not in operation pending renewal of lease from State Govt.

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 15(1)	19/09/2016	14/02/2017			
Rule 16(2)	19/09/2016				
Rule 27(4)	19/09/2016	14/02/2017			
Rule 45(5)(b)	19/09/2016	14/02/2017			
Rule 44(2)	19/09/2016	14/02/2017			

Date :

(B K SINGH)

Indian Bureau of Mines