

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-18/BBS

Mine code : 30ORI08018

- (i) Name of the Inspecting : **U11**) **DAYANAND UPADHYAY**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Ravi Narayan Kar, Geologist
Official with
Designation
- (iv) Date of Inspection : 04/11/2017
- (v) Prev.inspection date : 11/09/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GUALI**
- (b) **Registration NO.** : **IBM/5306/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village : GUALI
Taluka : BARBIL
Post office : GUALI
Pin Code :
FAX No. : 06767-272503
E-mail : tpsao@sify.com
Phone : 06767-272363, Mobile- 94370
- (f) Police Station : GUALI
- (g) First opening date : 07/06/1953
- (h) Weekly day of rest : TUE
2. Address for : VII&PO.GUALI
correspondance POLICE STATION . BARBIL
DIST.KEONJHAR,ORISSA,PIN.758035
3. (a) Lease Number : ORI0092
- (b) Lease area : 365.03
- (c) Period of lease :
- (d) Date of Expiry : 31/03/2020
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : RAMESH PRASAD SAO
 NEAR GANDHI PARK
 AT/PO.CHAIBASA
 DIST.SINGHBHUM(W) SINGHBHUM
 (WEST) JHARKHAND
 Phone:56268
 FAX :

Owner : RAMESH PRASAD SAO
 NEAR GANDHI PARK
 AT/PO.CHAIBASA SINGHBHUM
 (WEST) JHARKHAND
 Phone: 56268
 FAX :

Agent : ABHISHEK SAO
 NEAR GANDHI PARK AT/PO:
 CHAIBASA SINGHBHUM WEST
 DIST, JHARKHAND SINGHBHUM
 (WEST) JHARKHAND
 Phone: 06767-272363
 FAX : 06767-272503

Mining Engineer

Name : S K MUKHARJEE,Full Time
 Qualification : DEGREE IN MINING ENGG
 Appointment/ : 20/06/2013
 Termination date

Geologist

Name : SHRI D. DAS,Full Time
 Qualification : M.SC GEOLOGY
 Appointment/ : 20/06/2008
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	15/03/2005
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	11/12/2007
	:	Mining Scheme rule 12 MCDR1988	22/05/2009
	:	Modif.approved Mining Scheme	27/10/2010
	:	Renewal under rule 24 MCR1960	14/09/2012

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	101 bore holes were proposed in approved scheme of mining for the period 2013-14 to 2017-18.	Proposed bore holes have not been commenced due to suspension of mining operation with effect from 27.06.2013 by State Govt. vide letter no. 2150/mines, dated 24/06/2013.	Mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
1b	Exploration over lease area for geological axis 1 or 2	101 bore holes were proposed in G1/G2 level of exploration in approved scheme of mining for the period 2013-14 to 2017-18.	Proposed bore holes have not been commenced due to suspension of mining operation with effect from 27.06.2013 by State Govt. vide letter no. 2150/mines, dated 24/06/2013.	About 99.629 ha area covered G1 level and 103.796 ha area covered under G2 level by 72 nos. of bore holes drilled in the lease area covering total meterage of 3431.60m.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Proposed bore holes have not been commenced due to suspension of mining operation with effect from 27.06.2013 by State Govt. vide letter no. 2150/mines, dated 24/06/2013.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance 161.601 ha was proposed for exploration by 101 nos. of bore holes.	Proposed bore holes have not been commenced due to suspension of mining operation with effect from 27.06.2013 by State Govt. vide letter no. 2150/mines, dated 24/06/2013.	About 99.629 ha area covered G1 level and 103.796 ha area covered under G2 level by 72 nos. of bore holes drilled in the lease area covering total meterage of 3431.60m.

1e	Balance reserve as on 01/04/20	Balance reserve as on 01/10/2017 as per approved review of mining plan is : Iron ore under proved & probable category : 104.933 Million tonnes, Remaining resources: 6.30 Million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc		About 99.629 ha area covered G1 level and 103.796 ha area covered under G2 level by 72 nos. of bore holes drilled in the lease area covering total meterage of 3431.60m. Mining operation is suspended with effect from 27.06.2013 by State Govt. vide letter no. 2150/mines, dated 24/06/2013.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Topadih quarry lies between grid 212N-566S and 131E-620E and Baliasahi quarry lies between grid 562S-86S and 1060W-1433W.	There are 02 quarries in the lease area. Topadih quarry lies between grid 212N-566S and 131E-620E and Baliasahi quarry lies between grid 562S-86S and 1060W-1433W.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	In topadih pit bench height 12m and in Baliasahi pit bench height 10m.	The mine is not under operation since 27/06/2013. The existing bench height in OB and ore are 10-12m.	

2c	Stripping ratio or ore to OB ratio	1:0.045	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
2d	Quantity of topsoil generation in m3	Not Proposed.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
2e	Quantity of overburden generation in m3	293840 cu.m OB in 2016-17.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 pits, Topadih pit and Baliasahi pit.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
3b	Quantity of ROM mineral production proposed	6.59 million tonnes of ROM for the year 2016-17.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	

3c	Recovery of sailable/usable mineral from ROM production	75%	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3d	Quantity of mineral reject generation	893526 tonnes	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3e	Grade of mineral rejects generation and threshold value declared.	45 to 58% of Fe.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3f	Quantity of sub grade mineral generation.	893526 tonnes.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3g	Grade of sub grade mineral generation	45 to 58% of Fe.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed.	Not applicable.

3j	Provision of drilling and blasting in mineral benches	Wagon drill of 115mm dia. with single or double row drilling and blasting with delay detonator and Nonel.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3k	Provision of mining machineries in mineral benches	115 mm dia. wagon drill, excavator-4.3 cu.m, 2.1 cu.m, & 0.9 cu.m & trippers of 25T, 35T & 85T capacity.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In topadih pit bench height 12m and in Baliasahi pit bench height 10m.	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3m	Total area covered under excavation/pits	93.36 ha during scheme period for the year 2013-14 to 2017-18.	At present the area covered under excavation pits is about 77.9 ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.45	Nil. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
3o	Total area put in use under different heads at the end of year	Total area proposed under different head mining and allied activities is about 219.165 ha.	Total area covered under different head mining and allied activities is about 109.615 ha. The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

3p	Production of ROM mineral during the last five year period as applicable	2013-14: 6.76MT 2014-15:6.54MT 2015-16: 6.60MT 2016-17: 6.58MT 2017-18: 6.66MT	2013-14: 0.12MT 2014-15:Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil	
3q	General remarks of inspecting officers on method of mining etc.			The mine is not under working as mining operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dump for OB and mineral reject.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
4b	Location of topsoil, OB and mineral reject dumps	OB dump for the year 2016-17, between grid 730W-430W and 500N-265N, Mineral reject/sub grade dump 4 & 5 between grid 13W- 400E/ 318N- 523N and 490W-780W/ 385N-100N respectively. Dumping of top soil not proposed.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	

4c	Number of dumps within lease area and outside of lease area	01 OB dump, 410W- 730W/ 265N-520N and 02 mineral reject dump between grid 13W- 400E/ 318N- 523N and 490W-780W/ 385N-100N respectively.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	There are 05 nos. of mineral reject/sub grade dump of total quantity 2.543 million cu.m and one OB dump between grid 265N-477N/695W-375W in the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One OB dump between grid 265N-477N/695W-375W.	The mine is not under operation since 27.06.2013 . OB dump in the lease area is outside the UPL.	
4e	Number of active and alive dumps.	OB dump for the year 2016-17, between grid 730W-430W and 500N-265N.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	One OB dump lies between grid 265N-477N/695W-375W in the lease area.
4f	Number of dead dumps.	Not proposed.	Not applicable.	
4g	Number of dumps established.	Not proposed.	Not applicable.	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall of 500mX1.5mX1m and garland drain of 300mX1mX0.5m for the period 2016-17.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 500mX1.5mX1m and garland drain of 300mX1mX0.5m for the period 2016-17 along the toe of OB & sub grade dump.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
4j	Number of settling ponds	Not proposed.	Not applicable.	

4k	Specific comments of inspecting officer on waste dump management	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
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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.	Backfilling was proposed in southern part of the Topadih block.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
5b	Area under backfilling of mined out area	4.03 ha area.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

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).		The mine is not under operation since 27/06/2013. Annual report of PMCP has been submitted to this office.	
6b	Area available for rehabilitation (ha) .	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
6c	afforestation done (ha).	In 0.77 ha 1540 nos. of tree along dump and nallah was proposed for the year 2016-17.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
6d	No. of saplings planted during the year	1540 nos. of tree along dump and nallah for the year 2016-17.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
6e	Cumulative no .of plants		The mine is not under operation since 27/06/2013.	Total 4067 nos. of trees have been planted in the lease area.
6f	Any other method of rehabilitation	Backfilling in 2016-17 & 2017-18.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
6g	Cost incurred on watch and care during the year		The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed.	Not applicable.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	Not applicable.	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Not applicable.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring.	The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	

7c	Different grade of mineral sorted out at mines.		Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
7d	Any beneficiation process at mines .	Crushing and screening.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Not applicable.	
8b	Concurrent use or storage of topsoil	Not proposed.	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for OB and mineral reject.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	4.03 ha area of southern part of Topadih block was proposed to backfilling and reclamation.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	In 0.77 ha 1540 nos. of tree along dump and nallah was proposed for the year 2016-17.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	Total 4067 nos. of trees have been planted in the lease area.
8g	Survival rate	Not specified.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
8h	Water sprinkling on roads to control airborne dust	Truck mounted water sprinklar.	Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Nil. The mine is not under operation as working operation has been suspended since 27.06.2013 by DDM, Joda vide letter no. 2150, dated 24/06/2013.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Annual return for the year 2016-17 has been submitted by lessee.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-3, Geologist-1, Surveyor-1.	Mining Engineer-3, Geologist-1, Surveyor-1.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pit-44.90 ha, waste dump-2.830 ha, Infra structure-38.585 ha, Others- 19.308 ha.	As per revised AR area covered under pit-44.90 ha, waste dump- 2.830 ha, Infra structure-38.585 ha, Others-19.308 ha.	In the field annual return submitted for the year 2016-17 scrutinised and shortcomings has been observed in land use pattern as furnished by lessee. On the basis of scrutiny lessee has submitted the revised return to this office vide letter no. RPS/JODA/OUT/17-18/123, dated 15/11/2017.
9d	Scrutiny of Annual return on afforestation	308 nos. of trees.	308 nos. of trees.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production- Nil	ROM production- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil.	
9h	Scrutiny of Annual return on fixed assets	Rs 1562451597		

9k	Scrutiny of Annual return on mining machineries	Nil	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

Date :

(DAYANAND UPADHYAY)

Indian Bureau of Mines