

**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 : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Mr. S.K. Mukherjee (Mines Manager), Mr. Rabi Narayan  
Official with  
Designation
- (iv) Date of Inspection : 13-APR-18
- (v) Prev.inspection date : 04-NOV-17

**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-JUN-53
- (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-MAR-20
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-JUN-13  
 Termination date

## Geologist

Name : SHRI D. DAS,Full Time  
 Qualification : M.SC GEOLOGY  
 Appointment/ : 20-JUN-08  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	15-MAR-05
Plan/Scheme of Mining		Modif.of approved Mining Plan	11-DEC-07
		Mining Scheme rule 12 MCDR1988	22-MAY-09
		Modif.approved Mining Scheme	27-OCT-10
		Renewal under rule 24 MCR1960	14-SEP-12
		MP review under 17(1) MCR 2016	11-DEC-17

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 101 BH have been proposed during the period from 2013-14 to 2017-18.	NIL.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013.
1b	Exploration over lease area for geological axis 1 or 2	A total of 101 BH have been proposed to explore lease area under G1/G2 level of exploration.	NIL.	As the mining operations were under suspension.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal.	NIL.	As the mining operations were under suspension.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per RMP approved dated 11/12/2017a total of 161.601 HA area to be explored.	NIL.	As the mining operations were under suspension.
1e	Balance reserve as on 01/04/20	As per RMP approved dated 11/12/2017, reserve and resource was 104.933 and 6.30a million tonnes respectively.	NIL.	No depletion under reserve as mining operations were under suspension.

1f	General remarks of inspecting officers on geology, exploration etc	A total of 101 NH have been proposed to explore entire lease area under G1/G2 level of exploration.	Exploration work could not be undertaken due to suspension of mining operation by DDM, JODA w.e.f. 27/06/2013.	NIL.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Topadih quarry and Baliasahi quarry.	NIL.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed in OB and Mineral.	NIL.	As the Mining Operations were under suspension.
2c	Stripping ratio or ore to OB ratio	1:0.67 Tonnes/CuM	NIL.	As the Mining Operations were under suspension.
2d	Quantity of topsoil generation in m3	No Proposal.	NIL.	NIL.
2e	Quantity of overburden generation in m3	444350 CuM.	NIL.	As the Mining Operations were under suspension.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed in two Quarries.	Developmental work could not be undertaken due to suspension of mining operations in lease area.	NIL.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	02 pits, Topadih pit and Baliasahi pit.	NIL.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013.
3b	Quantity of ROM mineral production proposed	6.66 Million tonnes.	NIL as no excavation during reporting year.	As the Mining Operations were under suspension.
3c	Recovery of sailable/usable mineral from ROM production	5.70 million tonnes.	NIL as no excavation during reporting year.	As the Mining Operations were under suspension.
3d	Quantity of mineral reject generation	0.96 million tonnes	NIL as no excavation during reporting year.	As the Mining Operations were under suspension.
3e	Grade of mineral rejects generation and threshold value declared.	45 to 58 % Fe	NIL.	As the Mining Operations were under suspension.
3f	Quantity of sub grade mineral generation.	NIL	NIL.	Quantity mentioned in MR para.
3g	Grade of sub grade mineral generation	NIL.	NIL	Mentioned in MR para.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	NIL.	As the Mining Operations were under suspension.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	NIL.	NIL.

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.	As the Mining Operations were under suspension.
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.	As the Mining Operations were under suspension.
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.	As the Mining Operations were under suspension.
3m	Total area covered under excavation/pits	As per approved document dated 11/12/2017 , an area of 53.40 ha was proposed during period from 2013-14 to 2017-18.	As per approved document dated 11/12/2017 area covered under excavation pits is about 44.90 ha.	As the Mining Operations were under suspension.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.67 Tonnes/CuM	NIL.	As the Mining Operations were under suspension.
3o	Total area put in use under different heads at the end of year	As per approved RMP dated 11/12/2017, total area proposed under different head mining and allied activities is about 123.596 HA	Total degraded area was 109.615 Ha	As the Mining Operations were under suspension.

3p	Production of ROM mineral during the last five year period as applicable	2013-14:6.76 mT 2014-15:6.54 mT 2015-16:6.60 mT 2016-17:6.58 mT 2017-18:6.66 mT	2013-14: 0.117 mT 2014-15:Nil 2015-16: Nil 2016-17: Nil 2017-18: Nil	As the Mining Operations were under suspension.
3q	General remarks of inspecting officers on method of mining etc.	Production of around 6.66 million tonnes was proposed form two quarries.	Proposed production could not be achieved due to suspension of mining operation by DDM joda vide letter dated 24/06/2013	NIL.

#### 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 top soil generation. Separate dumping of waste and mineral reject was envisaged.	NIL as no work during reporting year.	As the Mining Operations were under suspension.
4b	Location of topsoil, OB and mineral reject dumps	For reporting year waste dumping was proposed near boundary pillar 19 and North of the office and camp area.	NIL.	As the Mining Operations were under suspension.
4c	Number of dumps within lease area and outside of lease area	Two dumps have been proposed.	01 (inside lease area)	As the Mining Operations were under suspension.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side of the UPL.	No waste dumping during reporting year.	As the Mining Operations were under suspension.
4e	Number of active and alive dumps.	Two dumps proposed.	Waste dumping has not been observed during reporting year.	As the Mining Operations were under suspension.

4f	Number of dead dumps.	No proposal.	NIL.	NIL.
4g	Number of dumps established.	No specific proposal.	NIL.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall of 300 mts and garland drain of 100 mts was proposed for reporting year.	NIL.	As the Mining Operations were under suspension.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall of 300 mts and garland drain of 100 mts was proposed for reporting year.	NIL.	As the Mining Operations were under suspension.
4j	Number of settling ponds	No proposal.	NIL.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Waste dumping has been proposed over toe locations for reporting year.	Waste material was not generated during reporting year.	As the Mining Operations were under suspension.

#### 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.	An area of 2.68 Ha has been proposd for backfilling.	NIL.	As the Mining Operations were under suspension.
5b	Area under backfilling of mined out area	An area of 2.68 Ha has been proposd for backfilling.	NIL.	As the Mining Operations were under suspension.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation during reporting year.	NIL.	As the Mining Operations were under suspension.



5d	Total area fully reclaimed and rehabilitated	An area of 2.68 ha was proposed to reclaime.	NIL.	As the Mining Operations were under suspension.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	An area of 2.68 ha was proposed to reclaimed and plantation work has also been proposed.	No work of reclamation and rehabilitation could be completed due to suspension of mining operation by DDM Joda.	NIL.

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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).	As per MCDR, annual report of PMCP to be submitted by lessee.	Annual report of PMCP has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	It was proposed to reclaim 2.68 Ha of area by the way of backfilling during reporting year.	NIL.	The mining operations are under suspension w.e.f. 27/06/2013 as per directions issued by DDM Joda vide letter dated 24/06/2013.
6c	afforestation done (ha).	0.1 Ha on OB dump and 0.86 Ha along Topadih Nala.	NIL.	As the Mining Operations were under suspension.
6d	No. of saplings planted during the year	1920 no.	NIL.	As the Mining Operations were under suspension.
6e	Cumulative no .of plants	As per approved document during period 2013-14 to 2017-18, a total of 13600 saplings were proposed to plant.	A total of 11448 saplings have been planted during the period from 2013-14 to 2017-18.	As per Annual return.

6f	Any other method of rehabilitation	No specific proposal.	NIL.	NIL.
6g	Cost incurred on watch and care during the year	A total of 9.7 lacks has been proposed.	NIL.	As the Mining Operations were under suspension.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	An area of 2.68 Ha has been proposed to backfill.	NIL.	As the Mining Operations were under suspension.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	124110 CuM of waste of Topadih block was proposed to backfill during reporting year.	NIL.	As the Mining Operations were under suspension.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal.	NIL.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	NIL.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No specific proposal.	NIL.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal.	NIL.	NIL.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	NIL.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	NIL.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring.	NIL.	As the Mining Operations were under suspension.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 2.68 HA has been proposed to reclaim. Plantation over waste dump and nala portion has been proposed.	Proposed work could not be undertaken due to suspension of mining operation by DDM, Joda.	NIL.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mainly grade wise sorting, Iron Ore from 45 to 58 % Fe and more than 58% Fe.	NIL.	As the Mining Operations were under suspension.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	NIL.	As the Mining Operations were under suspension.
7c	Different grade of mineral sorted out at mines.	No specific proposal.	NIL.	As the Mining Operations were under suspension.

7d	Any beneficiation process at mines .	No beneficiation process at mine. However, crushing and screening was proposed.	NIL.	As the Mining Operations were under suspension.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal of beneficiation. However, crushing and screening was proposed.	NIL.	As the Mining Operations were under suspension.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during reporting year.	NIL.	NIL.
8b	Concurrent use or storage of topsoil	No proposal.	NIL.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of Waste, Mineral reject has been proposed.	NIL.	As the Mining Operations were under suspension.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	124110 CuM of waste was proposed to restore the land.	NIL.	As the Mining Operations were under suspension.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.1 Ha on OB dump and 0.86 Ha along Topadih Nala.	NIL.	As the Mining Operations were under suspension.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.1 Ha on OB dump and 0.86 Ha along Topadih Nala.	NIL.	As the Mining Operations were under suspension.
8g	Survival rate	No proposal.	NIL.	NIL.
8h	Water sprinkling on roads to control airborne dust	Truck mounted water sprinklar.	NIL.	As the Mining Operations were under suspension.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	124110 CuM of waste was proposed to restore the land. and plantation over an area of 0.1 Ha on OB dump and 0.86 Ha along Topadih Nalawas proposed.	No work could be undertaken due to suspension of Mining Operation by DDM Joda.	As the Mining Operations were under suspension.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR , monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer, Geologist, and Manager.	Found to be in Order.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	A total of 105.623 Ha area has been furnished.	Found to be in order.	
9d	Scrutiny of Annual return on afforestation	NIL.	NIL.	As the Mining Operations were under suspension.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	NIL.	As the Mining Operations were under suspension.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production during the reporting year was NIL. As per AR 2017-18 ROM opening stock is 1992.000 tonnes.	ROM production was NIL during the reporting year.	As the Mining Operations were under suspension.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL.	NIL as no dispatch during reporting year.	As the Mining Operations were under suspension.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset furnished is Rs. 1422297434/-	Found to be in Order.	Not verified.
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC), WHEEL LOADER, DUMPER, AIR COMPRESSOR, WATER TANKER, ROCK DRILL (NON-ELEC.), CRUSHER etc.	Found to be in order.	NIL.

**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 :**

**(DILIP JAIN)**

Indian Bureau of Mines