

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-5/BBS

Mine code : 30ORI13016

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri A.S.Mohapatra, Agent, Shri A.K.Choudary, Manage
Official with
Designation
- (iv) Date of Inspection : 17/02/2019
- (v) Prev.inspection date : 08/01/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ORAGHAT**
- (b) **Registration NO.** : **IBM/4585/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : ORGHAT
- Taluka : BONAI
- Post office : KOIRA
- Pin Code :
- FAX No. : 06767-275161
- E-mail : rungtas@rungtamines.com
- Phone : 06767-275221, 275481
- (f) Police Station : Koira
- (g) First opening date : 10/12/1986
- (h) Weekly day of rest : SAT
2. Address for : VILL: ORAGHAT AND SANINDPUR
correspondance PO: KOIRA
PIN: 770048
3. (a) Lease Number : ORI0146
- (b) Lease area : 82.92
- (c) Period of lease : 20
- (d) Date of Expiry : 09/12/2002
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/s Rungta Sons (P) Ltd
Rungta House P.O.
Chaisabasa SINGHBHUM
(WEST) JHARKHAND
Phone:(06582) 56861/56761
FAX :91 6582 56442

Owner : M D RUSTAGI, NOMINATED OWNER
RUNGTA OFFICE,MAIN ROAD,
BARBIL AT/PO- BARBIL,DIST-
KEONJHAR SUNDARGARH ORISSA
Phone:
FAX :

Agent : A. S. Mahapatra
Rungta office, Main Road
Barbil Disr-Keonjhar
KEONJHAR ORISSA
Phone: 06767-276441
FAX : 06767-275481

Mining Engineer

Name : AMITESH CHARAN,Full Time
Qualification : B.E MINING
Appointment/ : 10/05/2012
Termination date

Geologist

Name : H Biswal,Full Time
Qualification : M.Sc Geology
Appointment/ : 01/11/2015
Termination date

Manager

Name : A K CHOUDHURY
Qualification : B E MINING
Appointment/ : 25/05/2008
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	05/10/2001
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	15/02/2008
	:	Modif.approved Mining Scheme	17/08/2009
	:	Mining Scheme rule 12 MCDR1988	28/05/2010
	:	Renewal under rule 24 MCR1960	20/07/2012
	:	MP modif under MCR 1960	20/07/2012
	:	Modif.approved Mining Scheme	08/07/2015
	:	Modif.of approved Mining Plan	02/06/2016
	:	MP modif under 17(3) MCR 2016	28/12/2016
	:	MP review under 17(1) MCR 2016	10/10/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such proposal.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	11 nos of boreholes were proposed during the year 2017-18.	drilling of 34 nos of boreholes were carried out.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such specific proposal.	Geotech India (P) Ltd - Rs.9,70,768.00	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	entire area has been explored under G1/G2 level.	there is no unexplored area in the ML area, as entire area has been explored under G1/G2 level.	Nil
1e	Balance reserve as on 01/04/20	As per the approved documnet on 10.10.2017 the iron ore reserves are 111: 35.18 million tonnes and resources are 221: 8.56 million tonnes.	due to depletion/addition of reserves over period of time the iron ore reserves as on 01.04.2018 are 111: 32.85 million tonnes and resources are 221: 8.56 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No comments to offer.	Entire ML area has been explored under G1/G2 level.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	4 nos of pits were proposed for development called as Kusum pit, Chattan pit, Kendu pit and colony pit during the year 2017-18.	3 nos of pits were developed called as Kusum pit, Chattan pit and Kendu pit.	development was carried out in only 3 nos of pits, so violation observed and issued on 04.03.2019
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	no benches in top soil are proposed, seperate benches in OB and mineral are proposed.	no benches in top soil developed and seperate benches in OB and mineral are maintained.	Nil
2c	Stripping ratio or ore to OB ratio	1: 0.13 t/cu.m.	1: 0.03 t/cu.m.	less development carried out. violation observed and issued on 04.03.2019
2d	Quantity of topsoil generation in m3	No generation of top soil is proposed.	No top soil is generated.	Nil
2e	Quantity of overburden generation in m3	951159 cu.m.	88525 cu.m.	proportionately development not carried out. violation observed and issued on 04.03.2019
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	No comments to offer.	development is carried out in 3 nos of pits. one pit called colony pit not developed during the year as proposed.	Nil

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	4 nos pits proposed for production called Kusum pit, Chattan pit, Kendu pit and colony pit during the year 2017-18.	production is carried out from 3 nos of pits called Kusum pit, Chattan pit, Kendu pit	violation observed and issued on 04.03.2019.
3b	Quantity of ROM mineral production proposed	7.35 million tonnes from opencast workings and 1 million tonne from dump rehandling	3007794 tonnes produced from opencast workings and 9820 tonnes from dump rehandling.	violation observed and issued on 04.03.2019
3c	Recovery of sailable/usable mineral from ROM production	6.62 million tonnes of salable ore and 0.73 million tonnes of mineral rejects	3007794 tonnes of salable ore with Nil production of mineral reject.	violation observed and issued on 04.03.2019
3d	Quantity of mineral reject generation	0.73 million tonnes from opencast workings.	Nil	violation observed and issued on 04.03.2019
3e	Grade of mineral rejects generation and threshold value declared.	+45%Fe-55%Fe	+45%Fe-55%Fe	Nil
3f	Quantity of sub grade mineral generation.	Not applicale	Nil	it is addressed in Mineral reject.
3g	Grade of sub grade mineral generation	Not applicable.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised, dry screening/crushing proposed.	Mechanised, dry screening/crushing carried out.	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	wet beneficiation proposed for mineral rejects.	Not carried out.	violation observed and issued on 04.03.2019
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in mineral / OB bench is proposed with different parameters like- Diameter of hole-110mm, Depth of hole-10 mt in 9 mt bench.	Drilling & blasting in mineral / OB bench is carried out with different parameters like- Diameter of hole-110mm, Depth of hole-10 mt in 9 mt bench .	Nil
3k	Provision of mining machineries in mineral benches	excavation is proposed by shovel dumper combination.	excavation is carried out with shovel dumper combination	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m bench height is proposed.	9 m bench height is maintained.	Nil
3m	Total area covered under excavation/pits	57.919 ha at the end of plan period i.e. 2017-18.	56.312 ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.13 t/cu.m.	1: 0.03 t/cu.m.	less development carried out. violation observed and issued on 04.03.2019

3o	Total area put in use under different heads at the end of year	area under miing: 57.919 ha waste disposal: 9.53 ha building and infra: 8.198 ha mineral storage: 2.04 ha	area under miing: 56.312 ha waste disposal: 9.53 ha building and infra: 2.99 ha mineral storage: 2.04 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2013-14-3000000 MT 2014-15-5000000 MT 2015-16-5000000 MT 2016-17-5021531 MT 2017-18-7350000MT from opencast workings	2013-14-15457.580 MT 2014-15-2100646.30 MT 2015-16-1559386.34MT 2016-17-2084891.99 MT 2017-18-3007794.335 MT	less production due to want of environmental clerance.
3q	General remarks of inspecting officers on method of mining etc.	No comments to offer.	production is carried out from 3 nos of pits.	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 top soil generation is proposed, seperate dumping for OB proposed and mineral reject is dispatched as per buyer demand or benefictated during the year 2017-18.	no top soil is generated during the year, seperate dumping for OB carried out and No mineral reject is generated.	Nil

4b	Location of topsoil, OB and mineral reject dumps	No top soil generation is proposed. OB dumping is proposed in the designated area of Dump-4. and mineral reject is dispatched as per buyer demand or benefitted during the year 2017-18.	No top soil is produced. OB dumping is not carried out in the designated area and dumped in some other location. no mineral reject is produced.	violation observed for waste dumping and issued on 04.03.2019.
4c	Number of dumps within lease area and outside of lease area	3 nos of in active waste dumps with in lease area. no waste dump in outside lease area	3 nos of in active waste dumps with in lease area. no waste dump in outside lease area. one active waste dump observed which is not in the proposed location of approved mining plan.	violation issued on 04.03.2019.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL.	outside UPL.	Nil
4e	Number of active and alive dumps.	1 no of waste dump	1 no of waste dump.	Nil
4f	Number of dead dumps.	one partially stabilised waste dump and other 2 nos of dumps contain mineral so dump rehandling proposed.	one partially stabilised waste dump and other 2 nos of dumps contain mineral so dump rehandling carried out.	Nil
4g	Number of dumps established.	one waste dump partially established.	one waste dump partially established.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed.	maintained.	Nil

4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall of 438m & Garland drain 288m length was proposed during 2017-18.	Retaining Wall of 341m & Garland drain 180m length has been constructed.	violation observed and issued on 04.03.2019.
4j	Number of settling ponds	Not applicable	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	No comments to offer.	waste dumping is not carried out as per the proposal in mining plan.	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.	Not applicable	No area is matured for backfilling.	Nil
5b	Area under backfilling of mined out area	Not applicable	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not applicable	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No comments to offer.	Area not matured for reclamation.	Nil

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	submitted.	submitted.	Nil
6b	Area available for rehabilitation (ha) .	Not applicable	Nil	Nil
6c	afforestation done (ha).	1.5 ha during year 2017-18	1.52 ha during year 2017-18	Nil
6d	No. of saplings planted during the year	8000 nos.	15180 nos.	Nil
6e	Cumulative no .of plants	84550 nos. (upto 31st March 2018)	88458 nos. (upto 31st March 2018)	Nil
6f	Any other method of rehabilitation	Not applicable	Nil	Nil
6g	Cost incurred on watch and care during the year	Terracing-0.75 Lakh Reatining Wall(438m)- 4.5 Lakh Garland Drain(288m) - 0.9 Lakh Afforestation (8000 nos) - 2.7 Lakh	Terracing-0.41 Lakh Reatining Wall(341m)- 3.15 Lakh Garland Drain(180m) - 0.30 Lakh Afforestation (6000 nos) - 2.49 Lakh Coirmatting- (1.75 Ha) 21.18 Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not applicable	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Nil	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	5000 nos.	5000 nos.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of environmental parameters viz., air, water noise	Quarterly monitoring of environmental parameters viz., air, water noise carried out.	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No comments to offer.	PMCP measures carried out as per proposal.	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	grade wise sorting of mineral is proposed.	grade wise sorting of mineral is carried out.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical dry screening/crushing.	Mechanical dry screening/crushing.	Nil
7c	Different grade of mineral sorted out at mines.	-55%Fe 55-58 % Fe 58-60% 60-62% 62-65%	-55%Fe 55-58 % Fe 58-60% 60-62% 62-65%	Nil
7d	Any beneficiation process at mines	wet beneficiation is proposed.	not carried out.	violation observed and issued on 04.03.2019
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No comments to offer.	wet beneficiation of low grade iron ore is proposed but not carried out	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable	No top soil is generated.	Nil

8b	Concurrent use or storage of topsoil	No proposal.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	seperate dump for OB, waste rock proposed. mineral rejects are proposed to be dispatched as per buyuers demand or wet benefictation proposed.	sperate dump for OB, waste rock is carried out. no production of mineral rejects during the year.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	84550 nos till 31.03.2018	88458 nos till 31.03.2018	Nil
8g	Survival rate	No proposal.	83.81%	Nil
8h	Water sprinkling on roads to control airborne dust	mobile water sprinkling is proposed for dust suppression on haul road.	mobile water sprinkling is carried out for dust suppression on haul road.	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments to offer.	aesthetic beauty in and around mines area is well mainatined.	Nil
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	annual and monthly returns are submitted.	submitted in stipulated time period.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer: 4 Gelogist: 2	Graduate Mining Engineer: 4 Gelogist: 2	found to be in order.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	area under miing: 56.312 ha waste disposal: 9.53 ha building and infra: 2.99 ha mineral storage: 2.04 ha	area under miing: 56.312 ha waste disposal: 9.53 ha building and infra: 2.99 ha mineral storage: 2.04 ha	found to be in order.
9d	Scrutiny of Annual return on afforestation	15810 nos.	15810 nos	found to be in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	found to be in order.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 52236.05 tonnes (closing stock) 60%-62% Fe: 2668.58 tonnes stock 62%-65% Fe: 93250.420 tonnes (lumps) closing stock	ROM stock: 52236.05 tonnes (closing stock) 60%-62% Fe: 2668.58 tonnes 62%-65% Fe: 93250.420 tonnes (lumps) closing stock	found to be in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost: Rs 600.7 and Ex.mine price of 62%-65% Fe (lumps) Rs. 3685.53, 62%-65% (fines)-Rs. 1339.56	production cost: Rs 600.7 and Ex.mine price of 62%-65% Fe (lumps) Rs. 3685.53, 62%-65% (fines)-Rs. 1339.56	found to be in order.
9h	Scrutiny of Annual return on fixed assets	Rs 187829710	Rs 187829710	Nil
9k	Scrutiny of Annual return on mining machineries	shovel: 2.1 cu.m. - 7 nos dumper: 35 tonnes - 22 nos loader: 1.7 cu.m. - 12 nos dozer: 160 HP - 2 nos	shovel: 2.1 cu.m. - 7 nos dumper: 35 tonnes - 22 nos loader: 1.7 cu.m. - 12 nos dozer: 160 HP - 2 nos	found to be in order.

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
MCDR17	Rule 11(1)	04/03/2019			

Date :

(RAMKISHAN R)

Indian Bureau of Mines