

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-BXT/SNG/MCDR-2/BBS

Mine code : 300RI13023

- (i) Name of the Inspecting : **AR**) **SHRI PREM PRAKASH**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri S.K.Garnaik, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 17/04/2015
- (v) Prev.inspection date : 07/11/2013

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAN INDPUR**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
State : ORISSA
District : SUNDARGARH
Village : SAN INDUPUR
Taluka : BONAI
Post office : PATAMUNDA
Pin Code :
FAX No. : 06767-276161
E-mail :
Phone : 09437077202
- (e) Police Station :
- (f) First opening date : 01/08/1989
2. Address for : SANINDPUR IRON &BUXITE MINES
correspondance VILL-SAINDPUR.PO-PATMUNDA
DIST-SUNDERGARH
3. (a) Lease Number : ORI0147
(b) Lease area : 147.1
(c) Period of lease : 20
(d) Date of Expiry : 05/09/2005
4. Mineral worked : BAUXITE Associated
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 : SRI D.R.OJHA
 M/S M.L.RUNGTA AND SONS
 BARAJAMDA SILJORA
 KALIMATIMINES SINGHBHUM
 (WEST) JHARKHAND
 Phone: 06596 - 62321, 62221
 FAX : 06596-62101

Mining Engineer

Name : P K NAYAK, Full Time
 Qualification : BE(MINING)
 Appointment/ : 18/09/2007
 Termination date

Geologist

Name : SUBHENDU SEKHAR, Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 01/06/2011
 Termination date

Manager

Name : S K GARNAIK
 Qualification : AMIE MINING, 1ST CLASS CERTIFICATE OF CC
 Appointment/ : 17/11/2008
 Termination date

6. Date of approval of Mining : 26/02/2015
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS**1. Details about Average employment :**

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	7	304
Others	46	304
Supervisory	11	304
CONTRACT		
Workers	143	304

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Water supply	10.00	14.03	9.70		
Health	2.00	2.19	3.00		
Sanitation	12.00	12.49	28.44		
Sub total	24.00	28.71	41.14		
Infrastructure					
Public transport	40.00	37.60	47.40		
Sub total	40.00	37.60	28.71		
Employment	0.20	0.30	0.20		
Recreation	0.60	1.44	0.66		
Total	64.80	80.48	76.97		

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

During last inspections on 05.11.2013 & 29.06.2014, no violation was pointed out. During current inspection, violation of Rule 13(1) & 27(3) were observed and being communicated to the party.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

not being recommended at present.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

a.Type of prospecting : Drilling and exploration i.e. pitting, drilling	20 nos.of bore holes	20 nos.of bore holes	
b.Total area covered : about 20 Ha.		88.737Ha. (Cumulative)	

B. Working (Rule 13)

c.Ore to waste ratio : 1:0.045 pit wise if possible otherwise for mine		1:0.019	
b.Bench size(LxWxH)length can be defined as regular/irregular	: Avg. Height-6-9m Avg. Width-10-40m	Avg. Height-8 m Avg. Width-15-20m	regular
a.Number and size of each pit (LxWxH)	: 01 pit : C-top Quarry 595m X381m X 39m W130-E520 & N335-N954 Northern Side:TRL-657m,BRL-606m Southern Side:TRL-642m,BRL-606m Eastern Side:TRL-636m,BRL-606m Western Side:TRL-658m,BRL-640m	01 pit : C-top Quarry 536m X330m X 38m approx.	cumulative
d.Total area covered : 30.35 Ha at the under excavation/pits end of 2014-15		28 Ha at the end of 2014-15	approx.

C. Waste disposal (Rule 13)

a.Location of dumps	: Waste Dump-B is approved up to Top RL 645 m at the S-E side to the end of year 2015-16	At Waste Dump-B in S-E side the height of this waste dump has already been reached up to Top RL 663 m.	
b.Method of dumping whether advancing/retreat	: Advancing	advancing	
c.Total area covered under waste dump.	: not specified for a year	10.53 Ha. approx.	cumulative
d.No.and size of each waste dump with No of steps/lift/bench	: 03 dumps-A,B,C	03 dumps, A- became sub-grade, B-waste dump active,	

C-waste dump inactive.

e. Yearly generation : 1,29,260 Cum.
of waste quantity.

45771.6 Cum.

RESERVE POSITION AS ON 01/04/2015**PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015**

Mineral	Production	Unit
IRON ORE	2340281	TON

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

Efforts for improving low grade and sub grade mineral. : Dry Crushing & Screening method is adopted for improving low grade mineral.

Efforts for improving percentage of recovery of ore. : the process of sorting, crushing & screening, use of rock breaker is adopted to improve percentage of recovery of ore. Quality control is done by supervisors.
Only waste materials like BHJ, BHQ, shale, phyllite, laterite, kaoline etc. are allowed to dump in waste dump. As a result the percentage of recovery of ore from total excavation is increased.

Mineral Rule 15

Percentage of recovery of ore : : Recovery of ore (ROM) from total excavation is about pitwise w.r.t. ROM and total material 90%.

Number of benches in ore and waste. : Out of total 5 Benches, 4 benches in ore & 1 Bench in Waste.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Total Quantity available during inspection is 70620 MT having grade 45 % Fe to 55% Fe.
Quantity of Sub-grade generation & utilization in the year 2014-15 is nil.

Number and size of each stack : : One Stack.

Location of stacking. : Dump-A

Separate stacking from waste : Sub Grade ore is separately stacked.

Total area covered for stacking : 2.5 Ha. approx.

Exploration data as on 31/03/ 2015

No. of Boreholes

No. of Pits

No. of Trenches

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated

Utilised

Stacked

(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : The lease area is hilly terrain with occasional mounds.
- b. Aesthetic environment : satisfactory. Avenue Plantation has been done on the road side. The colony area is surrounded by the teak plantation, Static water sprinklers are established along the haul roads. Three high mask lights are erected & street light posts are also established.
- c. Soil and land use pattern : Top soil generation negligible.
- d. Agriculture : No agricultural land is within the lease area.
- e. Forest(flora and fauna) : Common local species
- f. Vegetation : Mainly bushes and shrubs are there in non-excavation area.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : Nil

B Water environment.

- a. Surface water : The nearest surface water source is Kundra nalah which flows on the South-Eastern side of the lease and is about 1.5 km from outside the mining lease area.
- c. Quality of water : periodical monitoring being carried out, parameters/results were within the permissible limit.
- b. Ground water : Source of ground water in the area is dug well & tube wells.

C. Air environment

- a. Noise : periodical monitoring being carried out, parameters/results were within the permissible limit.
- b. Air : The air pollution is minimized by sprinkling of water on haul roads by fixed water sprinkler of 3.25 km within lease area. periodical monitoring being carried out, parameters/results were within the permissible limit.
- c. Climatic condition : The maximum temperature goes upto 41.50C in the month of May and it falls down upto 50 C in the month of December. During summer, the humidity ranges between 67% to 89%, in monsoon the humidity ranges between 70% to 83% and in winter, the humidity ranges between 62% to 64%. The average annual rainfall is 14.5 mm. The maximum precipitation occurs in July and August.

D. Socio economic environment

- c. Human settlement : Some human settlement like office premise & small colony are there but away from working area. mostly the

workers are coming from the nearby villages.

- b. Recommending health and safety. : Health check up camps are reportedly being organized and medicines are provided. One Dispensary is established in the buffer zone for regular health checkup.
- d. Recreational facility. : Games & Sports facilities are provided. Competition of foot ball match, Cricket tournament reportedly being organized.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>				
Season	Station type	Station name	Parameter	Value Actual Excess

<u>Air data for excess parameters</u>				
Season	Station name	Type of area	Parameter	Value Actual Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>		<u>2014 - 2015</u>	Area in Hect.
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<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2015	

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

Annual return for the year 2014-15 is not submitted yet; due date of submission is upto 1st july2015.

Scrutiny of annual return for the year 2013-14 is as below :

- (1) Cost of operation : 561.51 Rs/te
- (2) Reserve : 39.39 mill.te (111)
- (3) Production 2013-14 = 2633621.140 MT
- (3) Pit's Mouth Value - Rs. 4785.88/te (62-65% fe lump)
- (5) Stock- ROM Iron Ore = 12039.00 MT

PART - III : PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years - as per guidelines)

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

None

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

Copy of violation letter being indorsed to Dorector of Mines, Odisha.

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None

Date :

(SHRI PREM PRAKASH)

Indian Bureau of Mines