MCDR- Report

Name of Inspecting officer: Designation	Sri P. Prakash
	Sr. Asst.Controller of Mines
3) Accompanying mine official with designation	Sri A. Sen, C.G.M. (Geology),
1) D	Sri A.C.Biswal, C.G.M. (Mining)
4) Date of Inspection	22.09.2015
5) Date of Previous Inspection	08.03.2015

PART - I GENERAL INFORMATION

1. Name of mine	Jajang Iron & Mn Mine
a. Category of mine (A-Fully mechanized, A-Other	Jajang Iron & Mn Mine
than fully mechanized, B-Manual)	A - Mech
b. Mode of working (OC/UG/Both o/c & u/g)	O.C.
c. Postal address	At/PO-Jajang
d. State	Odisha
e. District	Keonjhar
f. Tehsil/ Taluka	Barbil
g. Police station	Bamebari
h. Village	Jajang
i. Post	Jajang
j. Pin Code	758052
k. FAX	06767 276161
I. E-mail	rungtas@rungtamines.com
m. Phone	06767-277481,277441,275221

2. a) Lease area in hect.	:	666.15 Hect.
b) Period of lease	:	13.02.1997 to 12.02.2017 (2 nd RML)
c) Date of expiry	:	12.02.2017

3.a) Mineral(s) included in the lease deed	:	Iron & Manganese Ore.
b) Mineral(s) worked	:	Iron Ore

4. Name and address of (including FAX/ E-mail, if any)

a) Lessee/ owner

: Rungta Mines Ltd.

b) Nominated owner

Sri. M.D.Rustagi

c) Agent with date of appointment

Sri. D.R. Ojha, Dt.01.04.1999

d) Mining Engineer and geologists appointed under rule 42 of MCDR, 1988 with date of appointment and whether full/ part time with qualification.

Sri. R.R.Yadav, Dt-25.07.2008, Full time, AMIE(Mining)

Sri.D. K.Mahanta, Dt-22.10.2003 Full time, M. Sc. (Geology),

e) Mine Manager with qualification and date of :

appointment

A. C. Biswal, AMIE(Mining), 1st Class Manager's Certificate of Competency from D.G.M.S., Dt.

01.09.2001

5. a) Details about Mining Plan/ Mining Scheme: Approved Mining Scheme:-314(3)/2011- MCCM

(CZ)/MS/49, Dt. 27.03.2012, Modification of mining scheme:- MSM/FM/05-ORI/BHU/2015-16

Dt.24.07.2015

: From 2015-16 to dt12.02.2017

b) Period of mining plan/ mining scheme in force :

(financial year)

PART II-TECHNICAL DETAILS

Maximum number of persons employed on any day during the year(i) below ground (ii) above ground and (iii) in all in the mines

in all in the mines.	410 05 2014	, 791		Average No. of	Remarks
Classification	Average d	Average daily employment		days worked in a	
	Direct	Contract	Total	year	
ODENIGACI				Jun	
OPENCAST			20	356	
a) Managerial person	38	0	38	356	
b) Supervisory persons	47	0	47	356	
c) Workers	11	334	345		
d) Ministerial persons	48	18	66	356	
c) Employment in plant	23	181	204	356	
f) Others	69	0	69	356	
UNDERGROUND	Not Applic	able			
a) Managerial person*					
b) Supervisory persons					
c) Workers		-			
d) Ministerial persons		1			
c) Employment in plant					
f) Others					* If common,
					please state

2. Community Development Plan (in and around the mines)

	S.	Proposed action	F	1			
	N	towards socio-	Expenditure	Expenditure	Expenditure	Expenditure	Remarks
		economic development	proposed in Rs. Lakhs	proposed in Rs. Lakhs	incurred in	incurred so far	
		during the current year	(Previous	for current	Rs. Lakhs	in Rs. Lakhs, in	
- 1		g and statement your	financial year)	year	(Previous	current year	
			(2014-15)	(2015-16)	financial	(2015-16), Till	
			(2011.13)	(2013-10)	year)	the date of	
	1	General development in			(2014-15)	inspection	
	L	the area				7	Expenditure
		a) Housing	-				s mentioned
		b) Water supply	177.94	218.23	157.20	10.40	are as
L		c) Sanitation	23.81	46.91	3.57	12.40	reported by
		d) Health, safety and	98.17	58.7	66.31	2.72	the mines
		medical facilities.			00.51	20.40	manager.
2		Training	5.64	10.61	6.68	1.20	Not verified.
3	E	Employment to local	101.87	320.00	318.19	1.20	
	l ii	nhabitants				140.43	
4	Ir	nfrastructure-public	694.64	631.80	620.36	170 70	6
	tr	ransport, roads,				172.73	
		ommunication and					
	el	lectricity					
5		ecreation and other	9.28	447.88	111.02	1.42	
		orts activities				1.43	
6		xpenditure for	53.18	111.48	34.97	50.00	
-		vironment				50.00	
		nagement					

Others (Agriculture,	398.62	199.85	170.24	7.50	
Animal Husbandry, Education, Electricity,					
Welfare)				,	

3. Status of compliance of MCDR, 88 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
08.03.2015	Nil	Not Applicable

After last inspection on 08.03.2015, No Violation was pointed out. During current inspection, Violation of MCDR,88 was also not observed.

4. A note on justification in case of suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988 if recommended. Not Applicable.

Not recommend

5. Scientific Mining (As per latest approved mining Plan/Scheme)

Item	Proposal (2014-15)	Actual work done (2014-15) or Cumulative as applicable	Remarks
i) Exploration (Rule 13)		аррпсавіс	
 a) Type of prospecting and exploration i.e. pitting, drilling etc. 	Drilling (19 no.)	Drilling (23 no)	18 nos holes are reported carried out within the already explored /working area to get
b) Total area covered	No specific area proposed	about 1480 m drilled	the information on ultimate depth of the ore zone & 5 nos holes are to prove the barrenness.
ii) Workings (Rule 13)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		barrenness.
a) Opencast/ underground	Opencast	Opencast	
b) Manual/ mechanized	Mechanized	Mechanized	
c) No. and size of each pit	Two nos of pits. B-Block Quarry C-Block Quarry	Two nos of pits. B-Block Quarry C-Block Quarry	
d) Bench size (1 x w x h) length can be defined as regular or irregular	Height -6-9m Width- 12-20 m Regular	Height -6-9m Width-12-20m (Approx) Regular	A small part of the C- Block quarry has been developed manually having height 1.5to 3.0m & width 8-10m as per
e) Ore to waste ratio pit wise if	1:0.15	1:0.18	proposed.
possible otherwise for mine	(Tonne:M ³)	(Tonne:M ³)	For entire mine
f) Total area covered under excavation/pits	Not specified for a year		
iii) Waste disposal (Rule 13)			
a) Location of dumps	Dump-4 (Active)	Dump-4 (Active)	
b) Method of dumping whether advancing/ retreat	Advancing	Advancing	
c) I otal area covered under waste dump	44.495 hect	About 44.5 hect	cumulative
d) No. & size of each waste dump with number of steps	Dump-4, 6 benches (Active)	Dump-4, 6 benches (Active)	Dump-1 dead &
		T (- retive)	rehabilitated, Dump-2 dead

lift/ bench.	2	10.34 Lac m3	& rehabilitated, Dump-3 dead & rehabilitated, 2584844 Te	(c)
e) Yearly generation of waste quantity. f) Year-wise quantity of top soil removed, utilized & stacked.	14.87 Lac m3	Nil		

6. Conservation of mineral- both quantitative and qualitative.

ii (a	grade fifficial/ fines (Rule 16)	9 benches of ore and 2 benches of OB in B-block and 11 benches of ore and 3 benches of OB in C-block About 100% ore recovery from ROM (Mineralized Zone) during year 2014-15.
(b) (c) (d) (e) iii)	Location of stacking Total area covered for stacking No. and size of each stack Quantity of yearly generation (2014-15) Beneficiation (Rule 20)	yes Four nos of stocks in B-Block i.e. SG-2,SG-3,SG-4& SG-5 and six nos in C-Block i.e. SG-6 to SG-11 About 19 Ha. 10 nos. Lump below 55% Fe=103428 te Fines below 55% Fe= 59403 te
(a)	Efforts for improving low grade and subgrade mineral. Efforts for improving percentage of recovery of ore	Screening / crushing of low-grade ore stocks/dumps. Control blasting is being carried out to recover more lumpy ore & Rock breakers are also being used in certain area for optimum recovery. By crushing, screening and manual dressing, sizing and sorting of ore.

7. Environment Management both quantitative and qualitative

i) Land Environment

(a) Landscape

The area is having hilly terrain with rugged topography with highest contour at 660 m & lowest at 495m approximately.

Good

(b) Aesthetic environment

Soil and land use pattern (c)

(d) Agriculture

(e) Forest (flora & fauna)

Top soil generation negligible Not observed near to mine workings area.

Common local species of Flora and also Fauna of common

(f) Vegetation

Bushes and dry deciduous species like Sal, Kurum, Kangara, Dharua, Assan, Kendu, Jamu, Mango etc. at unexcavated and

Public (g) building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest.

There is no Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest are reported within lease area. However one Sri Hanuman temple and one Sri Radha Krishna Temple has been

ii) Water Environment

Surface water (a)

Two nos. Rain water harvesting cum siltation pond has been developed. water collected during the rainy season is used for dust suppression measures. A check dam adjacent to railway siding has been constructed to

Ground water (b)

Since the working is continuing above the water table, as a result there is

Quality of water (c)

no possibility of contamination of ground water table due to mining operation.

The drinking and domestic water required for daily need is met up through existing bore wells and dug wells. A water treatment plant has been installed to purify water.

Air Environment iii)

Noise (a)

Air

(b)

The noise level monitoring in the core zone and residential areas are being

carried out.

The air pollution is minimized by providing stationery water sprinkling as well as mobile tanker on haul roads, plant area (Dry fog system) etc , & using wet drilling technique. Regular air monitoring is also reported being carried out.

Climatic condition (c)

The temperature of the area varies from 11.6°C to 46.4° C.

Socio-economic iv) environment

Social and demographic (a) profile

(b) Recommending health and safety

(c) Human settlement

Most of the people in the area depend on mining & agriculture. Mining activities has given employment to local people directly and indirectly.

Health check-up camps are reported to be organized and medicines being provided regularly along with 24 hr Ambulance service.

One employee's colony is there within the lease area.

(d) Recreational facility Club, Games & Sports facilities are provided in the mine camp area

8. Scrutiny of annual return on cost of operation, reserves, production, pit mouth value, stock etc.

for the year 2014-15

1) Cost of operation

: Rs 791.02/Tonne

2) Reserve (As on 1.4.2015)

: 82.437 ml. te (111-cat.)

3) Production

: 5492231.230 MT

4) Pit's Mouth Value

•			
Grade Fe%	Ex Mines price Rs/ MT (as per IBM)		
	Lumps	Fines	
55-58	1526.41	1072.81	
58-60	2330.57	-	
60-62	4101.75	1964.41	
62-65	5060.55	2595.67	
65 & above	5690.78	-	

5) Stock

: 12603.750 MT (ROM Ore), 1010743.989 MT (Processed Ore)

9. PROPOSAL FOR FURTHER ACTION:

(a)	Indian Bureau of Mines(any issue related to CGPB, SGPB, assistance	Nil
	consultancy, annual programme and studies etc	INII
(b)	The State Government (illegal mining ,mining dispute ,infrastructure, mineral	
	based industry, infineral policy etc.)	Nil
(c)	The Central Government (infrastructure development, mineral policy and	
	legislation, mineral based industry etc.)	Nil
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