MCDR Report

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Sr.Assistant Controller of Mines.
3) Accompanying mine official with designation	Shri.A.Sen(C.G.M-Geology),
4) D (C)	Shri B.K.Srivastava(Mines Manager).
4) Date of Inspection	26.11.2015
5) Date of Previous Inspection	09.03.2015

PART -I GENERAL INFORMATION

1. Name of mine	
	Teherai Iron & Mn Mines.
a. Category of mine (A-Fully mechanized, A-Other	A-Fully mechanized.
than fully mechanized, B-Manual)	
b. Mode of working (OC/UG/Both o/c & u/g)	OC
c. Postal address	Koira
d. State	Odisha
e. District	Sundergarh
f. Tehsil/ Taluka	Koira
g. Police station	Koira
h. Village	Teherai
i. Post	Koira
j. Pin Code	770058
k. FAX	06767-275221
l. E-mail	rungta bbl@yahoo.co.in
m. Phone	06767-277161

2. a) Lease No.	:	
b) Lease area in hect.	: Total lease area-137.460 Ha	
c) Period of lease	: RML from 01.01.1982 to 31.12.20	001.
	Supplementary lease deed executed on dt. 02.5.2	015
	up to 31.3.2020.	
d) Date of expiry.	: 31.3.2020	

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

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

a) Lessee/ owner

b) Nominated owner

c) Agent with date of appointment

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

e) Mine Manager with qualification and date of : appointment

M/s Bonai Industrial Co. Ltd.

Sri M.D. Rustagi; dt. 12.01.2008 Sri D.R. Ojha, dt. 01.04.1999

Sri Deepak Kumar (Mining Engineer), Full time, date of appointment- 22.06.2011

Degree in Mining Engineering, 2nd Class Manager

Certificate. Year of passing 1995. Sri S.K.De (Geologist), Full time, Date of appointment. 30.01.2013. M. Sc in Geology.year of passing 2002.

Sri B.K. Srivastava. A.M.I.E(India), 1st Class Manager Certificate of Competency, dt.01.07.2009.

5. Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining: Modification of approved Scheme of Mining is approved letter No. MSM/FM/04vide

ORI/BHU/2015-16/1037 Dt: 21.7.2015 for the

period of 2015-16 to 2016-17.

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

Modification of Scheme of Mining From 2015-16

to 2016-17(financial year)

PART II-TECHNICAL DETAILS

1. Details about employment.

Maximum number of persons employed on any day during the year(i) below ground (ii) above ground and (iii) in all in the mines....02.04.2014 ...Total=119, Male...117, Female...2.

Classification	Average	daily employm	ent	Average No. of	Remarks
	Direct	Contract	Total	days worked in	
				a year	
OPENCAST					
a) Managerial person	4	Nil	4	305	
b) Supervisory persons	2	1	3	305	
c) Workers	4	4	8	305	
d) Ministerial persons	Nil	Nil	Nil	Nil	
c) Employment in plant	Nil	Nil	Nil	Nil	
f) Others	3	3	6	305	
UNDERGROUND	N.A	N.A	N.A		
a) Managerial person*					
b) Supervisory persons					
c) Workers					
d) Ministerial persons					
c) Employment in plant					
f) Others					* If common,
		1			please state

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

S.	Proposed action	Expenditure	Expenditure	Expenditure	Expenditure	Remarks
7	towards socio- economic development during the current year	proposed in	proposed in Rs. Lakhs		incurred so far in Rs. Lakhs, in current year (2015-16), Up to month of Oct'15	Remarks
1	General development in the area					Expenditures mentioned
H	a) Housing	10 55165	22 70242	10.551/5		are as reported
-	b) Water supply	18.55165	22.79343	18.55165		by the mines
	c) Sanitation	4.14052	29.1701	4.14052		manager.

	d) Health, safety and medical facilities.	Technician salary at Koira	13.22(Healt h care)	0.72(X-ray Technician salary at Koira		Not verified.
	2 Training	CHC)		CHC)		
3	Employment to local	0.1235		0.1235		-
	inhabitants					-
4	Infrastructure-public	77.0				
	4	77.0496(Cultu	144.52257(77.0496	45.06896	1
	Tours,	ral pandal,	,		(Roads,	
	electricity and	const. of drain,	0,		electricity &	
	- retrienty	Dev. Of play	Boundary		etc.)	
5	Recreation and other	ground)	wall, Roads)		ĺ	
	sports activities	0.43033(Sport		0.43033		-
	sports activities	s material				
6	Expenditure for	distribution)				
1	environment for	1.68708	21.65774(P	1.68708		
	management		ond			
	management		renovation,			
7	Others	-	check dam)			
,	Others	0.96		0.96		
	Livelihoods promotion:		7.1636(Kith		7.1636	
	1		en Garden		7.1030	
	1		promotion,			
			Paddy			
			seeds,	50		
	1		fertilizers,			
	1		fruit bearing			
			saplings)			
	Education		3.05(Teache			
			r's salary,			1
		100	Computer,			
			school			
			CONTRACTOR OF THE PROPERTY OF			
			furniture &			
\dashv	Total		etc)			
	lotal	103.66268	241.57774	103.66268	52.23256	
					1	

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			
09.03.2015	Nil	Nil			
After last inspection on 00.02.2015 N. V. L.					

After last inspection on 09.03.2015, 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			
Helli	Proposal	Actual work done	Remarks
	(2014-15)	(2014-15) or	
		Cumulative as	
D. Francis (D. 1. 12)		applicable	
i) Exploration (Rule 13)		_	
a) Type of prospecting and exploration i.e.	15 Nos. of Core-	Nil	Mines working
pitting, drilling etc.	Drill.		reported
b) Total area covered	10 Ha.	Nil	suspended from
			17.05.2014 to
			12.05.2015 vide
			letter
			no1631dt.17.05.2
			014 by
			D.D.M.Koira.
ii) Workings (Rule 13)	_		
a) Opencast/ underground	Opencast	Opencast	
b) Manual/ mechanized	A (FM)	A (FM)	
c) No. and size of each pit	(Iron) – 1 no	o. (Iron) – 1 no.	TRL-665.00m
	[Chattan pit]	[Chattan pit]	BRL-590.00m,
	-		Approx. 11 nos
	3.		of benches are
			formed.
	(Mn) - 1 no. $[Pit - 1]$	(Mn) - 1 no.	
		[Pit – 1]	
d) Bench size (1 x w x h) length can be	Chattan pit (Iron) –6		
defined as regular or irregular	8m height,	6-8m height,	
	10-12m width.	10-12m width.	
	Regular	Regular	
e) Ore to waste ratio pit wise if possible	1:0.52(T/m³)	1:1.71 (upto	ROM= 110470
otherwise for mine.		May'2014)	MT, $OB =$
other wise for inner		(T/m^3)	1,89,255 m ³
f) Total area covered under excavation/pits	Not specified for	a About 57.25 ha.	
1) Total area covered under excuration pro	year.		
" W. J. Langel (Dula 12)	J		
ii) Waste disposal (Rule 13)	Dump-C	Dump-C	
a) Location of dumps	Retreating	Retreating	
b) Method of dumping whether advancing/	Keneaning	Ronouting	
retreat	Not an add for	a Dump-C about 2	2 Active dump
c) Total area covered under waste dump	Not specified for	1	Active dullip
	year.	ha.	1.
d) No. & size of each waste dump with	Dump- C- 2 nos.		
number of steps lift/ bench.	terraces of 12		
number of steps me east.	height.	about 12m heigh	
			17.05.2014 t
	7,32,551.70m³	1,89,255.35m³.	12.05.2015 vid
e) Yearly generation of waste quantity.	1,52,551.7011	•	letter no.163
			dt.17.05. 2014 b
			DDM. Koira.
			DDM. Rulla.

d,

Year-wise quantity of top soil utilized & stacked.	removed, Nil Nil
(b) Recommending health and safety (c) Human settlement (d) Recreational facility 6. Conservation of minoral bath	Medical facilities are available at Koira, Tensa, & Kalta. The remote villages are covered by mobile unit of the health department. Density of population is low. Games & Sports facilities are provided. Disc Antenna is provided in the mine camp area.

the mine camp area. 6. Conservation of mineral- both quantitative and qualitative. i)

Mineral (Rule 15) (a)

No. of benches in ore and waste:-Percentage of recovery of ore pit-wise w.r.t. ROM and (b) total material:

Sub-grade mineral/ fines (Rule 16) ii) (a)

Separate stacking from waste

Location of stacking (b)

Total area covered for stacking (c) (d)

No. and size of each stack (e)

Quantity of yearly generation

iii) Beneficiation (Rule 20)

Efforts for improving low grade and sub-grade: By Crushing and Screening method. (a) iv)

Efforts for improving percentage of recovery of ore. 7. Environment Management both quantitative and qualitative:

Approx. 11 nos. of benches are formed. W.r.t. ROM Iron ore recovery is about

100% from ore zone excavation.

: Yes.

: N965 to N1000 & E400 to 450

: 1700m²

: One no.(50x34x1.2)

: Generation during 2014-15:- Nil (grade below 55% of Fe).

Sorting & screening.

i)	Land Environment			
(a)	Landscape		The lease area has undulating terrain with occasional	
-			mounds,	
(b)	Aesthetic environment		Aesthetic environment surrounding the area is satisfactory	
(c)	Soil and land use pattern		Generation of top soil is negligible	
(d)	Agriculture		No agricultural land within the lease area.	
(e)	Forest (flora & fauna)		Common local species of plants, birds and animals.	
(f)	Vegetation		Mainly bushes and shrubs are found.	
(g)	Public building, places and i		Nil	
	(protected monument and			
	monument), places of worship	and places		
	of tourist interest.			
ii)	Water Environment			
(a)	Surface water	Toe wall,	garland drain etc. are provided around dump to prevent the	
		contamina	tion of surface water.	
(b)	Ground water		ground water in the area is dug well & tube wells.	
(c)	Quality of water	The groun	d water is suitable for use.	
iii)	Air Environment			
(a)	Noise	The noise	level monitoring in the core zone and residential areas are	
		being carried out.		
(b)	Air	The air pollution is minimized by sprinkling of water on haul roads &		
		using wet drilling technique. Regular air monitoring is also reported		
		being carried out.		
(c)	Climatic condition	Temperatu	re The maximum temperature goes upto 45°C in the	

		Relative Humidity	month of May and it falls down upto 5° C in the month of December. During summer, the humidity ranges between 51% to 56%, in monsoon the humidity ranges between 70% to 83% and in winter, the humidity ranges between 62% to 64%.		
iv) (a)	Socio-economic environment Social and demographic	Rainfall	The average annual rainfall is 14.5 mm. The maximum precipitation occurs in July and August.		
(b)	profile	people are depend	ople in the area depend on mining & agriculture. vity is not the main source of earning, most of the dent on mining sector.		
(c)	safety Human settlement	villages are covered by mobile unit of the health department			
(d)	Recreational facility	Density of population is low. Games & Sports facilities are provided. Disc Antenna is provide mine camp area.			

- 8. Scrutiny of annual returns on cost of operation, reserves, production, pit mouth value, stock, etc. for the year
 - (1) Cost of operation: Rs.684. 37 per te
 - (2) Reserve: Iron = 6.367 Mill. Mt (111 cat.)
 - (3) Production: ROM Iron =110470 te
 - (4) Pit's Mouth Value: Iron ore: Rs.3346.00 (For 60-62% lumps)

Rs.4324.00 (For 62-65% lumps) Rs.659.87 (For 60-62% fines)

Rs.1645.66 (For 62-65% fines)

(5) Stock: Iron ore:

4821.150MT (ROM).

Processed ore

Lumps:- 60%-62% Fe :- 13951.370 tonnes.

62%-65% Fe:- 62859.817 tonnes.

Fines:- 55%-58%Fe :- 4646.000tonnes.

60% -62%Fe:- 126949.010tonnes. 62%-65%Fe:- 168952.379tonnes

9. PROPOSAL FOR FURTHER ACTION:

	HOTOSALTORTORTHER ACTION:	
(a)	Indian Bureau of Mines(any issue related to CGPB ,SGPB ,assistance) I'I
	consultancy, annual programme and studies etc	
(b)	The State Government (illegal mining ,mining dispute ,infrastructure, mineral	
	based fidustry, fifficial policy etc.)	
(c)	The Central Government (infrastructure development ,mineral policy and	
	legislation, mineral based industry etc.)	Nil
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P. Prakash Dy. Controller of Mines