

MCDR Report

- 1) Name of Inspecting officer : Mr. Prem Prakash
 2) Designation : Sr. Asst. Controller Of Mines, IBM.
 3) Accompanying mine official with designation : Mr. Manoj Samal (G.M. Mines)
 Mr. S.K. Mukherjee (Mines Manager)
 Mr. Rabi Narayan Kar, Manager (Geology)
 4) Date of Inspection : 03.02.2016
 5) Date of Previous Inspection : 11.09.2014

PART -I GENERAL INFORMATION

1. Name of mine : Guali Iron Ore Mines
 a. Category of mine : A (Fully Mechanized)
 (A-Fully mechanized, B-Other than fully mechanized)
 b. Mode of working (OC/UG/Both o/c & u/g) : OC
 c. Postal address : Guali Iron Ore Mines, Guali
 d. State : Odisha
 e. District : Keonjhar
 f. Tehsil/ Taluka : Barbil
 g. Police station : Rugudihi
 h. Village : Guali
 i. Post : Guali
 j. Pin Code : 758035
 k. FAX : 06767-272363
 l. E-mail : gualimines@gmail.com
 m. Phone : 06767-272446, 272884
 n. Date of first opening : 27.06.1953
 o. Weekly day of rest : Sunday
2. a) Lease No. : 81
 b) Lease area in hect. with forest area, if any : 365.026 Hectors.
 c) Period of lease : Supplementary Lease deed executed up to 31.03.2020.
 d) Date of expiry. : As per section 8A (6) of amended MMDR ACT 2015, the mining lease period has been extended up to 31.03.2020.)
- 3.a) Mineral(s) included in the lease deed : Iron Ore (Hematite)
 b) Mineral(s) worked : Iron Ore (Hematite)
4. Name and address of (including FAX/ E-mail, if any)
 a) Lessee/ owner : Shri R. P. Sao
 European Quarters, Opposite Gandhi Maidan,
 Chaibasa,
 West Singhbhum, Jharkhand-833201
 Phone No. (+91) 06582 256268, 257698
 Fax. (+91) 06582 257700
 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. : Mr. S.K. Mukherjee, A.M.I.E. (Mining), 20/06/2013 (Full time)
 Mr. Rabi Narayan Kar, M.Sc. (Geology), 10/02/2014 (Full time)
 e) Mine Manager with qualification and date of appointment : Mr. S.K. Mukherjee A.M.I.E. (Mining Engineer), 20/06/2013.
5. Details about Mining Plan/ Mining Scheme
 a) Letter No. and date of approval of mining plan : No. 314(3)/2011-MCCM(CZ)/MP-48 (Mining Plan), 14.09.2012
 b) Period of mining plan/ mining scheme in force : Mining Plan 2013-14 to 2017-18

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:- 279 (09.11.2015)

Date

Classification	Average daily employment			Average No. of days worked in a year	Remarks
	Direct	Contract	Total		
OPENCAST				229	As mining operation is suspended since 27.06.2013, the whole manpower is deployed in ABOVE GROUND only.
a) Managerial person	13	3	16		
b) Supervisory persons	56	18	74		
c) Workers	35	35	70		
d) Ministerial persons	03	Nil	03		
e) Employment in plant	33	12	45		
f) Others (Watch & Ward)	7	40	47		
UNDERGROUND				N/A.	
a) Managerial person*					
b) Supervisory persons					
c) Workers					
d) Ministerial persons					
e) Employment in plant					
f) Others					

* If common, please state

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

S.N	Proposed action towards socio-economic development during the current year	Expenditure proposed in Rs.(Previous financial year) (2014-15)	Expenditure proposed in Rs. for current year (2015-16)	Expenditure incurred in Rs. (Previous financial year) (2014-15)	Expenditure incurred so far in Rs. in current year (2015-16), Till the date of inspection	Remarks
1	General development in the area					Expenditures given are as reported by the mines manager. Not verified by the undersigned.
	a) Housing					
	b) Water supply	40,00,000	14,00,000	15,26,947	10,42,640	
	c) Sanitation	2,50,000	2,50,000	
	d) Health, safety and medical facilities.	25,00,000	19,00,000	17,89,717	15,16,805	
2	Training	6,00,000	6,00,000	5,31,000	4,42,500	
3	Employment to local inhabitants	96,00,000	85,00,000	86,95,161	74,15,052	
4	Infrastructure-public transport, roads, communication and electricity	50,00,000	1,00,00,000	19,380	10,000	
5	Recreation and other sports activities	7,50,000	1,00,000	64,019	69,660	
6	Expenditure for environment management	50,000	50,000	2,000	37,500	
7	Others	22,00,000	5,00,000	3,55,401		
	Total	2,49,50,000	2,33,00,000	1,29,83,625	3,27,400	
					1,08,61,557	

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
11.09.2014	Nil	N.A

After last inspection on 11.09.2014, No Violation was pointed out.

During current inspection, Violation of MCDR,88 was also not observed. The mining operations reported suspended by DDM, Joda vide letter no.-2150/Mines Dt.24.06.2013 & D.F.O., Keonjhar vide letter no.4961/Mining Dt. 26.06.2013.

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 recommend

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

Item	Proposal 2014-15	Actual work done 2014-15	Remarks	
i) Exploration (Rule 13)				
a) Type of prospecting and exploration i.e. pitting, drilling etc.	Core drilling 15Nos.	Nil	Mining operations reported suspended during Yr. 2014-15	
b) Total area covered	15Ha.	Nil		
ii) Workings (Rule 13)				
a) Opencast/ underground	Opencast	Opencast	Mining operations reported suspended during Yr. 2014-15	
b) Manual/ mechanized	Mechanized	Mechanized		
c) No. and size of each pit (L x W x H)	270 x 150 x 20	Nil		
	(i) Topadihi	Nil		
(ii) Baliasahi	780 x 30 x 30	Nil		
d) Bench size (l x w x h) length can be defined as regular or irregular	Regular	Regular		
e) Ore to waste ratio pit wise if possible otherwise for mine.	1:0.049	0:0		
f) Total area covered under excavation/pits	About 19 Ha. cummulative	Nil		
iii) Waste disposal (Rule 13)				
a) Location of dumps	Waste dump Baliasahi:- 752W-416W 514N-375N	Waste dump Baliasahi:- 752W-416W 514N-375N		
b) Method of dumping whether advancing/ retreat	Both Advancing Retreating	NA		
c) Total area covered under waste dump	4.22 Ha.	Nil		
d) No. & size of each waste dump with number of steps lift/ bench.	265 x125 x 6 in 1 bench 260 x 35 x10 in 1 bench	Nil		
e) Yearly generation of waste quantity.	322250CuM/64450 0MT	Nil		
f) Year-wise quantity of top soil removed, utilized & stacked.	Nil	Nil		

6. Conservation of mineral- both quantitative and qualitative.

i) Mineral (Rule 15)

(a) No benches in ore and waste :

Quarry Name	No of Benches	
	In Ore	In OB/Waste
Topadihi Section	7	1
Baliasahi Section	4	1

(b) Percentage of recovery of ore pit-wise w.r.t. ROM and total material: N.A.

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

(a) Separate stacking from waste:

Yes

(b) Location of stacking

: Stack1 100N-370S,45W-120E

Stack2-400E-700E,310S-560S

Stack3- 50N - 180S,50W - 220W

Stack4- 270N - 490N,20E - 235E

Stack5 - 480W-680W150N-350N

(c) Total area covered for stacking:

N.A (About 19.5 Ha. up to 26.06.2013)

(d) No. and size of each stack:

05 nos.

(e) Quantity of yearly generation, utilisation and total quantity available during inspection with grade:

No work was done during the year2014-15

iii) Beneficiation (Rule 20)

iv) Efforts for improving percentage of recovery of ore.

No work was done during the year 2014-15

7. Environment Management both quantitative and qualitative

i)	<u>Land Environment</u>	
(a)	Landscape	The ML area has an hilly & undulating topography.
(b)	Aesthetic environment	Aesthetic environment surrounding the area is satisfactory.
(c)	Soil and land use pattern	The soil is lateritic.
(d)	Agriculture	No agricultural land exists within the mining lease area.
(e)	Forest (flora & fauna)	Common species
(f)	Vegetation	Scattered vegetation is there
(g)	Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest.	NA
ii)	<u>Water Environment</u>	
(a)	Surface water	Mining operation reported suspended during Yr. 2014-15
(b)	Ground water	
(c)	Quality of water	
iii)	<u>Air Environment</u>	

(a) Noise	Mining operation reported suspended during Yr. 2014-15
(b) Air	
(c) Climatic condition	The core area lies in tropical region having semi arid climate condition.
iv) <u>Socio-economic environment</u>	
(a) Social and demographic profile	Majority of the population in the area is scheduled tribe & back-ward class. A large number of people are depended on mining activities.
(b) Recommending health and safety	Mining operation reported suspended during Yr. 2014-15
(c) Human settlement	No such within the lease area.
(d) Recreational facility	Not reported any

9. Scrutiny of annual returns on cost of operation, reserves, production, pit mouth value, stock, etc. for the year 2014-15.

(1) Cost of operation : No production during the year 2014-15.

(2) Reserve :

Classification	Code	Quantity (Mil. Tonnes)	Grade (as per NMI grades as indicated in the mining plan)
(1)	(2)	(3)	(4)
Total Mineral Resources (A + B)			+45% Fe
A. Mineral Reserve			
1. Proved Mineral Reserve	111	108.780993 MNT	
2. Probable Mineral Reserve	121 and 122	17.4042 Million Tonnes	
B. Remaining Resources			
1. Feasibility Mineral Resource	211		
2. Prefeasibility Mineral Resource	221 and 222	2.4577 Million Tonnes	
3. Measured Mineral Resource	331		
4. Indicated Mineral Resource	332	1.1093 Million Tonnes	
5. Inferred Mineral Resource	333		
6. Reconnaissance Mineral Resource	334		

(3) Production : Nil

(4) Pit's Mouth Value : No production during the year 2014-15.

(5) Stock as on 31.03.2015: processed ore:-

Fines (below 55%Fe)	5600062.470MT
Fines (55- 58%Fe)	399647.00
60-62%Fe (Lumps)	0.630 MT
62-65% Fe(Lumps)	28403.540MT
62-65% Fe(Fines)	891628.46MT

9. PROPOSAL FOR FURTHER ACTION:

a)	Indian Bureau of Mines (any issue related to CGPB, SGPB, assistance, consultancy, annual programme and studies etc.	Nil
b)	The State Government (illegal mining, mining dispute, infrastructure, mineral based industry, mineral policy & etc.)	As mentioned above, Fines & Sub-grade ore stocks are disproportionately high. State Govt. should ensure dispatch of fines & low grade ore in the interest of conservation of mineral.
c)	The Central Government (infrastructure development, mineral policy and legislation, mineral based industry & etc.)	Nil

P. Prakash
Dy. Controller of Mines
INDIAN BUREAU OF MINES