

## MCDR Report

1) Name of Inspecting officer:	Mr. PremPrakash
2) Designation	DCOM
3) Accompanying mine official with designation	Mr. P.K. Dehury, Mines Manager, Mr Sourav Sahoo, AGM, Geol.
4) Date of Inspection	05.07.2016
5) Date of Previous Inspection	17.09.2015

## PART -I GENERAL INFORMATION

1. Name of mine	Balda Block Iron Mine
a. Category of mine (A-Fully mechanized, A-Other than fully mechanized, B-Manual )	A-Fully Mechanized
b. Mode of working ( OC/UG/Both o/c & u/g)	OC
c. Postal address	
d. State	Odisha
e. District	Keonjhar
f. Tehsil/ Taluka	Barbil
g. Police station	Bamebari
h. Village	Balda, BadaKalimati&Nayagargh
i. Post	Balda
j. Pin Code	758035
k. FAX	06767-273452
l. E-mail	serajuddin@serajuddinmines.com
m. Phone	06767-273452
n. Weekly day of rest	Monday
2. a) Lease area in hect.	335.594 Ha.
b) Period of lease	20 Years (RML)
c) Date of expiry.	02.12.2017
3.a) Mineral(s) included in the lease deed	Iron Ore
b) Mineral(s) worked	Iron Ore

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

a) Lessee/ owner	:	M/s. Serajuddin & Co.
b) Nominated owner	:	Md. Intekhab Alam.
c) Agent with date of appointment	:	Mr. Nihar Ranjan Nayak,
d) Mining Engineer and geologists appointed under rule 42 of MCDR, 1988 with date of appointment and whether full/ part time with qualification.	:	Mr. A.K Sahoo, AMIE(1997), FCC, Mining Engineer &21.09.2012. (Full Time) Mr. Sourava Kumar Sahoo. M.Sc (Geology-1995) & 08.10.2014. (Full Time)
e) Mine Manager with qualification and date of appointment	:	Mr. P.K. Dehury, AMIE(1993), FCC, Mines Manager & 21.09.2012

## 5. Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan/ mining scheme.	:	Letter No. 314 (3) / 2011-MCCM (CZ) / MS – 47 dated on 27.04.2012
d) Period of mining plan/ mining scheme in force	:	2012-13 to 2016-17

## 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.

Classification	Average daily employment			Average No. of days worked in a year	Remarks
	Direct	Contract	Total		
OPENCAST	129	683	812	307	
a) Managerial person	13	19	32		
b) Supervisory persons	45	149	194		
c) Workers	0	407	407		
d) Ministerial persons	0	0	0		
e) Employment in plant	0	0	0		
f) Others	71	108	179		

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

Sl No.	Proposed action towards socio-economic development during the current year	Expenditure proposed in Rs. Lakhs For the (2015-16)	Expenditure proposed in Rs. Lakhs for current year (2016-17)	Expenditure incurred in Rs. Lakhs (2015-16)	Expenditure incurred so far in Rs. Lakhs, in current year (2016-17) up to June'2016	Remarks
1	General development in the area					Expenditure given here is as reported by the mines manager. Not verified by the undersigned.
	a) Housing	----	-----	-----		
	b) Water supply:-(Drinking water supply through water Tanker to Joda Municipal Area & Pidhapokhari village of Kalimati GP.)	24.0	24.00	6.79	2.95	
	c) Sanitation	-----	20.00	Nil	Nil	
	d) Health, safety and medical facilities. to the community of Balda, Kalimati & Nayagarh GPs.	48.00	72.00	17.36	16.40	
2	Training:- Education and training Remuneration to School Teachers & seminars, upliftment of Education.	24.00	24.00	10.04	2.07	
3	Employment to local inhabitants	36.00	36.00	26.52	6.84	
4	Infrastructure- Public transport, roads, communication and electricity, Construction of School Buiding at SSVM, Bamebari, Renovation of Nayagarh School & Supply of Electricity to Ballda, Kundaposi, Guruda & Kalimati	200.0	120.0	288.38	16.62	
5	Recreation and other sports activities:-Distribution of sports materials & Annual Picnic of School children & staff	10.0	12.0	1.80	0.45	
6	Expenditure for Environment Management-Corporate Sector Plantation-5000 nos of Fruit bearing & forest species sapling from Champua to Rimuli (20RKM)	50.00	50.00	14.36	5.36	
7	Others- Social Welfare Activities)- Contribution to Indian Redcross Society, KJR, Observance of Yagnya by Balda community etc.	24.0	24.00	9.73	11.82	
8	Other Dev. Projects	24.00	24.00	19.85		
9.	District Mineral Fund			2591.40		
	Total	440.00	406.00	2986.230	2550.080	
					2612.590	

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
17.09.2015	Nil	NA

During current inspection, Violations of rule 13(1), 23(E)(2)&45 of MCDR, 88 are observed and being communicated to the party.

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 being recommended at present.

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

Item	Proposal (2015-16)	Actual work done (2015-16) /Cumulative	Remarks
<b>i) Exploration (Rule 13)</b>			
a) Type of prospecting and exploration i.e. pitting, drilling etc.	Nil	Nil	
b) Total area covered	Nil	Nil	
<b>ii) Workings (Rule 13)</b>			
a) Opencast/ underground	Opencast		
b) Manual/ mechanized	Mechanized		
c) No. and size of each pit	Block-A : Pit 1, 2 & 5 Block-F1	Block-A : Pit 1, 2 & 5 Block-F1	
d) Bench size (1 x w x h) length can be defined as regular or irregular	Length-Not specified Width-> Height Height:- 10m	Length- Not Specified Width-More than the height Height – 10m avg.	
e) Ore to waste ratio pit wise if possible otherwise for mine.	1:0.09	1:0.11	Ore: Waste Ratio in MT for mine
f) Total area covered under excavation/pits	117.270 Ha. (at the end of scheme period 2016-17)	About 113 Ha.	Cumulative
<b>iii) Waste disposal (Rule 13)</b>			
a) Location of dumps	Dump-A (North eastern side of the lease area). Dump-B(Eastern side of the lease area)	Dump-A (near to pit 5A) Dump-B (Eastern side of the lease area) A new waste dump is made near ML boundary pillars 20 & 21 (Block-F1).	Dump-A (near to pit 5A) reported carried out temporarily and would be shifted after getting surface right at North eastern side of the lease area.
b) Method of dumping whether advancing/ retreat	Retreating	Advancing cum Retreating	Figures are given as reported by mines manager during inspection. AR-2015-16 was not submitted up to the date of inspection
c) Total area covered under waste dump	Not specified for a year	---	
d) No. & size of each waste dump with number of steps lift/ bench.	02 dumps	Dump-5A : about 218x150x33. Dump-B: about 195x85x12 & A new waste dump (Block-F1).	
e) Yearly generation of waste quantity.	1404773 MT	1198996 MT	
f) Year-wise quantity of top soil removed, utilized & stacked.	Nil	Nil	

6. Conservation of mineral- both quantitative and qualitative.

<b>i) Mineral (Rule 15)</b>	
a) No. of benches in ore and waste	Block-A – (9nos of Benches in ore 3 in OB) Block-F1—(04 nos of Benches in ore)
b) Percentage of recovery of ore pit-wise w.r.t. ROM and total	100% w.r.t. ROM
<b>ii) Sub-grade mineral/fines (Rule 16)</b>	
a) Separate staking from waste	Yes. However, at some places Subgrade minerals have been stacked mixing with the waste .
b) Location of stacking	in Block-A, Block-B & Block-F1
c) Total area covered for stacking	About 210000 Sq.m.
d) No. and size of each stack	2 numbers in Block-A, 2 numbers of stack in Block-B and 1 in Block-F1
e) Quantity of yearly generation, utilization and total quantity available during inspection with grade	2015-16: Nil 2016-17 : Nil (up to June'2016) Total Quantity of Subgrade as on 05.07.2016 is 4.01559 Million Tonne. Above Figures are given as reported by mines manager during

inspection. AR-2015-16 was not submitted up to the date of inspection

iii) Beneficiation (Rule 20)	Blending only
a) Efforts for improving low grade and sub grade mineral	Sorting & screening
b) Efforts for improving percentage of recovery of ore	

7. Environment Management both quantitative and qualitative


i) Land Environment	
a) Landscape	The surface area is highly undulating and hilly.
b) Aesthetic environment	Not maintained at places.
c) Soil and land use pattern	The top soil generation is nil.
d) Agriculture	The agriculture land does not exist within the lease area.
e) Forest (flora & fauna)	Common species; being taken care of through safety zone plantation, fencing, forest fire prevention preparation, controlled blasting etc.
f) Vegetation	Bushes & shrubs
g) Public building, places and Monuments, place of worship and tourist interest.	Nil
ii) Water environment	
a) Surface water	Bethajari Nallah is flowing along the eastern boundary of the mining lease.
b) Ground water	Ground water table not intersected yet, as the Opencast Mine is operative above the ground water level.
c) Quality of water	Water Quality is reported to be monitored regularly and parameters are under prescribed limit.
iii) Air environment	
a) Noise	The noise level is reported to be monitored regularly and under prescribed limit.
b) Air	The Following measures are being in practice to control of air pollution in mining areas: <ul style="list-style-type: none"> <li>• Haulage &amp; mineral dispatch road are maintained by regular water sprinkling through 5.5 Km of fixed water sprinklers as well as mobile water sprinkling tankers.</li> <li>• Dry-fogging to suppress the dust generation at crushing &amp; screening plants.</li> <li>• The drilling machines are equipped with dust extraction system &amp; water injection system.</li> </ul>

C) Climatic condition	Sub-tropical
iv) Socio-economic environment	
a) Socio and demographic profile	Locals are mostly tribal. Peoples around the ML area are engaged in mines directly or indirectly
b) Recommending health and safety	A health center is provided, where reportedly medical checkup and medicine being provided to employees villagers.
c) Human settlement	No human settlement inside the ML area
d) Recreational facility	As reported Sports materials being distribute to local school children & Cricket bats and kits, volley ball d to local youth club and local sports tournaments through the youth clubs being arranged.

8. Scrutiny of annual returns on cost of operation, reserves, production, pit mouth value, stock, etc. for the year 2015-16: AR-2015-16 was not submitted up to the date of inspection; violation being issued in this respect.

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.)	A copy of violation letter being endorsed to Director of mines, Odisha.
c)	The Central Government (infrastructure development, mineral policy and legislation, mineral based industry etc.)	Nil

  
P. Prakash  
Dy. Controller of Mines