

MCDR Report

1	Name of inspecting officer:	Mr. Prem Prakash
2	Designation	Sr. Asst. Controller of Mines, IBM, Bhubaneswar
3	Accompanying mine official with designation	Mr. Sukanta Panda (Sr. G. M. - Mines) Dr. Ashok Kumar Mohapatra (Addl. G. M. - Expln. & Planning), Mr. Sanjay Kumar, Mining Engg.
4	Date of Inspection	23.09.2015
5	Date of previous Inspection	05.03.2015

PART-I GENERAL INFORMATION

1	Name of mine	Roida-I Iron Ore Mines
a	Category of Mine (A-Fully Mechanized, A- Other than fully mechanized, B-Mannual)	A- Fully Mechanized
b	Mode of working (OC/UG/Both O/C & U/G)	Open Cast
c	Postal Adress	
d	State	Odisha
e	District	Keonjhar
f	Tehsil/Taluka	Barbil
g	Police station	Barbil
h	Village	Barbil, Panchvati
i	Post	Barbil
j	Pin Code	758035
k	Fax	06767-277524
l	E-mail	rhrao@mescosteel.com, spanda@mescomines.com
m	Phone	09937287666 & 09937287245
2.a)	Lease No.	73 F/8
b	Lease area in hect. With forest area if any	104.68 Hect.
c	Date of Expiry of lease	31.03.2020
3.a)	Minerals included in the lease deed	Iron Ore
b	Minerals worked	Iron Ore

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

- (a) Lessee/Owner: Mideast Integrated Steels Ltd.
- (b) Nominated Owner: Mr. R. H. Rao
- (c) Agent with date of appointment: Mr. D. P. Nanda (D. O. A.- 01.10.2014)
- (d) Mining Engineer and Geologist appointed: Sanjay Kumar, BE Mining with 2nd Class
Under rule 42 of MCDR-1988 with date of Mines Manager certificate (DOA-04.04.14)
Appointment and whether full/part time with Tarun Kanta Behera, M. Sc. (Geology)
Qualification DOA- 10.09.2011
- (e) Mines Manager with qualification and date of: Mr. Sukanta Panda, AMIE-Mining with
Appointment 1stClass Manager's Certificate (DOA-01.10.2014)

5. Details of Mining Plan/Scheme: MSM/FM/01-ORI/BHU/2014-15/4465, Dated: 05.02.2015

PART-II TECHNICAL DETAILS

1. Details about employment. Maximum number of person 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		

OPEN CAST				306 Days
Managerial	20	-	20	
Supervisory person	13	-	13	
Worker	24	130	154	
Ministerial Person	33	0	33	
Employment in Plant	26	96	122	
Others	68	118	186	
INDER GROUND				
Managerial				
Supervisory person		NIL		
Worker				
Ministerial Person				
Employment in Plant				
Others				*If common please state

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 (Previous Financial years) 2014-15	Expenditure incurred in Rs. Lakhs (Previous Financial years) 2014-15	Expenditure proposed in Rs. Lakhs for current year 2015-16	Expenditure incurred so far in Rs.	Remarks
1	General development in the area					Expenditures given is as reported by the mine manager. Not verified by the undersigned.
a)	Housing	5.0	5.0	4.49	333501	
b)	Water Supply	30.00	30.00	29.32	494363	
c)	Sanitation				NIL	
d)	Health, Safety and Medical Facility	45.00	50.00	43.56	1084419	
2	Training	2.5	2.5	2.47	NA	
3	Employment to local inhabitants				NA	
4	Infrastructure- Public transport, roads, communication and electricity	3.0	3.5	3.02	1220358	
5	Recreation and other sports activities	4.5	5.0	4.72	284267	
6	Expenditure for environment management	0.30	0.30	0.25	NA	
7	Others	90.3	96.3	87.83	NA	
	Total					

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

After last inspection on 05.03.2015, No Violation was pointed out.

During current inspection, Violation of rule 13(1) was 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 development 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)

Items	Proposal (2014-15)	Actual work done (2014-15) or cumulative applicable	Remarks	
i.Exploration(Rule13)				
a) Type of prospecting and exploration i.e. pitting, drilling etc.	19 nos of boreholes	Nil	Mining operations reported discontinued /suspended from 17 May 2014 to July 2015 due to pending RML, abiding the order of State Govt. wrt. Hon'ble Supreme Court order. Lease deed executed on 13.07.2015 and mining operation resumed on 27.07.2015.	
b)Total Area Covered	Nil	Nil		
ii) Working (Rule 13)				
a)Opencast/Underground	Open Cast	Open Cast		
b) Manual/Mechanized	Mechanized	Mechanized		
c) No. and size of each pit (L * W*H)	01 pit, Q-4	01 pit, Q-4		
d) Bench size (L*W*H) length can be defined as regular of irregular	10.5mtrs X 09mtrs; regular	Approx. 10.5 mtrs X 09 mtrs, regular almost		
e) Ore to waste ratio pit wise if possible otherwise for mines.	1:0.17	1:0.06		Te:te
f) Total area covered under excavation /pits	Not specified for a year	24.3 Ha. approx.		
iii)Waste disposal (Rule-13)				
a) Location of dumps	Dump-1, E-331600, N-2437500,	Dump-1, E-331600, N-2437500,	Dump-2, E-331600, N-2437900; inactive	
b) Method of dumping whether advancing/retreat	Advancing	Advancing		
c) Total area covered under waste dump	3.494 Ha.	3.494 Ha.		
d) No. & size of each waste dump with number of steps lift/bench.	D-1(230X118) with 4 benches	D-1(230X118) with 4 benches	D-2(130X60) ; inactive	
e) Yearly generation of waste quantity.	0.949 Mill. Ton	9849 te	Very less quantity due to mining operation suspended by State Govt.	
f) Year wise quantity of top soil removed, utilized & stacked	Nil	Nil	Not applicable	

6. Conservation of Mineral - Both quantitative and qualitative.

i) Mineral Rule-15

a) Nos benches in ore and waste: Q-4 (Ore-6 Benches, Waste-1Benches)

b) Percentage of recovery of ore pit wise w.r.t. ROM and total materials: 94.76%

ii) Sub-grade Minerals/Fines (Rule-16):

a) Separate stacking from waste: Yes

b) Location of stacking: E-330800, N-2437220

c) Total area covered for stacking: 0.2 Ha. approx.

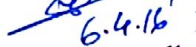
- d) Nos and size of each stack: 1 no.
- e) Quantity of yearly generation, utilization and total quantity available during inspection with grade: Generation during 2014-15- Nil
- iii) Beneficiation (Rule-20): Dry processing.
 - a) Efforts for improving low grade and sub-grade mineral: Blending of high grade iron ore to low grade and sub-grade mineral to meet the buyer's requirement.
 - iv) Efforts for improving percentage of recovery of ore: Sorting, blending, Screening and Crushing of ROM.
- 7. Environment Management both quantitative and qualitative:
 - i) Land Environment:
 - a) Landscape: Hilly & undulating.
 - b) Aesthetic environment: Plantations has been done inside the lease at places to improve Aesthetic environment.
 - c) Soil and land use pattern: During year 2014-15, there is no generation of top soil as no fresh area has been utilized for excavation.
 - d) Agriculture: Not within the lease area and near to mine.
 - e) Forest (Flora & Fauna): Local species; as reported steps being taken up for the protection of Flora & Fauna as per approved Site Specific conservation plan.
 - f) Public building, places and monuments (protection and historical monuments) places of worship and places of tourist interest: Not applicable
 - ii) Water Environment:
 - a) Surface water: There is no perennial water course inside the ML area. However, monitoring being carried out regularly to nearby water course & parameters are within the permissible limit.
 - b) Ground Water: Not intersected yet by mining.
 - c) Quality of water: The water quality monitoring being carried out regularly of nearby tube well and open well, parameters are within the permissible limit.
 - a) Air Environment: Noise: Monitoring was done regularly as per guide lines laid by CPCB/ SPCB/MoEF.
 - b) Air: Monitoring was done regularly as per guide lines laid by CPCB/ SPCB/MoEF.
 - c) Climatic condition: The predominant wind direction were SW. The maximum and minimum temperature (46°C to 20°C), relative humidity (69% to 42 %) & rain fall (1000 mm to 1500 mm)/annum recorded during the season.
 - iii)
 - a) Social and demographic profile: The people of the area were depending on the agriculture. After the advent of mining industry, the social trend changed and most of the people are engaged in mines directly or indirectly.
 - b) Recommending health and safety : As reported, all the employees are undergoing IME & PME on regular basis and safety appliances like shoes, helmets, nose mask, gloves etc. are provided to all.
 - c) Human settlement: Not within lease area
 - d) Recreational facility: The mines have a colony facility at Serenda and employees are being facilitated with recreational activities.

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

- (1) Cost of operation : 1636.00/T
- (2) Reserve : 46680741 T (111)
- (3) Production : 190608 MT(ROM)
- (4) Pit's Mouth Value: 3712/T (62-65% Lump)
- (5) Stock: ROM-40532.240 MT (O/C working)

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


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