

**REPORT ON CHECK INSPECTION OF MEGHAHATUBURU IRON ORE MINE
OF M/S SAIL-RMD IN WEST SINGHBHUM DISTRICT**

Name and designation of inspecting officer : **Anupam Nandi RCOM**

Date of Inspection : **26/02/2019**

1. General information of the mine:

- i) Name of mine : Meghahatuburu Iron Ore Mines
- ii) Owner : M/s Steel authority of India Ltd
- iii) Nominated Owner : Sri H N Rai
- iv) Mining Engineer : Sri S P Das
- v) Agent : Sri C Mukhopadhyay
- vi) Mine Manager : Sri Kamlesh Rai
- vii) Lease Area : 2897.499 Hect.
- viii) Location : Vill.- Meghahatuburu, Dist. W Singhbhum
State- Jharkhand
- ix) Lease Period :
- x) Date of Expiry : 31.03.2020
- xi) Date of approval of Mining Plan : 13.10.2015
- xii) Date of approval of scheme : 13.06.2018
- xiii) Period of Mining Plan/
Scheme of Mining : Scheme Period- 2018-19 & 2019-20
- xiv) Production(2017 - 18) : 3706045 tonne

2. Brief description of the mine:

a. A brief description of the mine covering location, geology, problems associated with mining of the deposit etc. may be given.

Location- Kiriburu-Meghahataburu iron ore lease is bounded by Longitude 85 14' 07" to 85 18' 23" East and Latitude 22 02' 03" to 22 07' 33" North and covered under Survey of India, Toposheet No. 73 F/8.

Geology- The Meghahataburu Block deposit is situated north of Northern Block of Kiriburu mine consists of undulating hills with central portion rising to 918 m above MSL. The deposit slopes down to steep valleys both to the northern and southern directions. The deposit stretches over a strike length of 2100 m in N 37 E direction. The width varies between 250-600 m. The ore in the central part of the deposit extends to 130 m depth and to relatively shallower depth in the northern and southern parts of the deposit. The central part in which the mine has been developed extends over 960 m with an ore width of 450 m.

Geologically the deposit is associated with typical metamorphosed iron bearing sedimentary rocks of Proterozoic (upper pre Cambrian) age. The deposit is bounded by BHJ on the northern, western and southern sides, while extensive laterite occurs towards the eastern side. Soft laminated ore outcrops are rare while the blue dust does not appear on the surface at all. Float ore, though confined to slopes, is negligible in quantity. The Meghahataburu deposit is located at a distance of 5 km from North Block deposit.

Deployment of mining machinery:

- % utilization is for the year 2017-18.

Sl No	Machineries deployed	Capacity	Number of Units	In use	Ideal	Percentage Of utilization	Brief description	Remarks
1	Hydraulic Shovel (9.5 Cum)		4			60%		
2	Hydraulic Shovel (4.5 Cum)		1			24%		
3	Back Hoe (1.5 Cum)		2			52%		
4	Back Hoe (1 Cum)		1					
5	Front End Loader (3.7 Cum)		1			-		
6	Dumpers (100 te)		7			49%		
7	Dumpers (50 te)		2			9%		
8	Water Tanker (28 Kl)		2+1			24%		
9	Blast Hole Drill (150 mm)		4			69%		
10	Motor Grader (280 HP)		2			52%		
11	Dozer		7			55%		

3. Implementation of Mining Plan or scheme of Mining:

Sr. No.	Proposal in the approved Mining Plan or Scheme of mining (Period from _____ to _____)	Observations regarding implementation of proposals given in approved Mining Plan or Scheme of mining.	Remarks
1.	CONSERVATION OF MINERALS		
a)	Exploration:	a) Exploration as proposed in the Mining Plan/Scheme could not be carried out due to delay in Stage II grant from MOEF&CC.	
b)	Utilization of subgrade mineral:	b) Subgrade materials are either blended directly with the ROM to meet the desired level of quality or Screened by using mobile screen (in pit) to remove the low grade fines (<45) and recover the high grade lump.	
c)	Any other proposal for monitoring:	--	
2.	SCIENTIFIC MINING		
a)	Mine Development and method of mining	a) Open Cast Mining	
b)	Handling of Waste/subgrade material:	b) Waste generated are back filled in the already mined out area.	
c)	Area reclamation & restoration:	c) 1 Ha + 24 Ha of already stabilized waste dump	
d)	Any other proposal for monitoring:	--	
3.	PROTECTION OF ENVIRONMENT		
a)	Afforestation:	1000 (during 17-18)	
b)	Quality of Air:	i) Periodic in- house monitoring is carried out along with the	

		<p>Quarterly monitoring which is conducted by JSPCB.</p> <p>ii) To reduce dust level 2 nos of 28 Kl water sprinklers are there at MIOM. Beside this Permanent water sprinklers have been installed covering around 600 mtrs permanent haul road.</p> <p>3) Dry fogging system has been provided at Hopper (Crusher) and other places in Plant to reduce air born dust.</p> <p>4) PPEs are provided i.e. dust mask to all the employees working in the Mine & Plant area.</p>	
c)	Quality of Water:	Periodic in- house monitoring is carried out along with the Quarterly monitoring which is conducted by JSPCB.	
d)	Noise Level:	Periodic In-house monitoring is carried out.	
e)	Vibration:	Vibration study is carried out through IOCL (Explosive supplier) periodically.	
f)	Any other proposal for monitoring:	--	

4. History of Violations after approval of Mining Plan or Scheme of Mining:

Sl. No.	Date of Inspection	Name of Inspecting Officer	Violations of MCDR,88 observed and Pointed out	Rectification of Violations	Remarks
1		Sri B P Kerketta, Sr. ACOM	Rule-13(1)(A)	Complied on 11.08.2015	
2	17.09.2015	-do-	Rule-13(1),45(a)	Complied on 10.11.2015	
3	10.01.2017	-do-	Rule-13(1),45(7)	Complied on 01.02.2017	
4	28.10.2017	-do-	Rule-11(1),35,37(5)	Partly complied 04/01/2018	
5	06.02.2018	Sri B P Kerketta, Sr ACOM and Dr Sudhakara T L, SMG	Rule-11(1)	Complied on 24.04.2018	
6	Violation dt- 28.08.2018	Sr A Nandi, RCOM	Rule-45(b)&(c)	Complied on 25.09.2018	

5. Socio-Economic Development Plan:

Sl. No.	Proposed Action Plan towards Socio-Economic Development	Expenditure Proposed (In Rs. Lakh)	Expenditure Incurred (In Rs. Lakh)	Remarks
1.	General Development in the area			
	i) Housing		259.73	
	ii) Water Supply		22.29	
	iii) Sanitation		18.09	
	iv) Health, Safety and Medical Facilities		85.52+0.70	
2.	Education and Training		1.35+396.50	
3.	Employment to local inhabitants		5.13	
4.	Public Transportation and communication		45.94	
5.	Recreation and other sports activities		0.67	
6.	Expenditure for environment management		23.23+37	
7.	Other			
	Total:			

(Anupam Nandi)
Regional Controller of Mines
& Inspecting Officer