REPORT ON CHECK INSPECTION OF BALDA BLOCK IRON MINES OF M/s SERAJUDDIN & CO. IN KEONJHAR DISTRICT OF ODISHA STATE [PREPARED IN THE FORMAT, PRESCRIBED VIDE CCOM'S LETTER NO. 11013/35/MP/MISC/89-CCOM (Vol. III)]

Name and designation of inspecting officer : Shri Harkesh Meena, RCOM

Date of Inspection : 18.03.2018

1. General information of the mine

(i) Name of the mine
(ii) Owner
(iii) Nominated owner
(iv) Mining Engineer
(v) Agent
Balda Block Iron Mines.
M/s Serajuddin & Co.
Md. Intekhab Alam.
Shri. Anjan Kumar Sahoo
Shri Nihar Ranjan Nayak

(vi) Mine Manager: Shri P.K. Dehury(vii) Lease area: 335.594 hect

(viii) Location : Vill-Balda, Dist-Keonjhar, State-Odisha.

(ix) Lease period : 02.12.1997 to 31.03.2020

(x) Date of Expiry: 31.03.2020(xi) Date of approval of Mining Plan: 03.01.1992(xii) Date of approval of Review of Mining: 17.07.2017

Plan

(xiii) Period of Mining Plan/ Review of: 03.12.2017 to 31.03.2020.

Mining Plan

(xiv) Production

Year	Proposed in	Actual in
	Million	Million
	Tonnes	Tonnes
2016-17	15.0	10.78
2017-18		
(up to	15.0	8.21
Feb'18)		

2. Brief description of the mine:

(a) A brief description of the mine covering location, geology, problems associated with mining of the deposit etc.

(1) Location:-

The Balda Iron Ore Mines of M/s Serajuddin & Co. over an area of 335.594 hectares is located in village Balda, Bada Kalimati and Nayagarh under Keonjhar District, Odisha.

Name of the Mine	Balda block Iron ore Mine
Latitude	21°51'49.62618" to 21°53'28.15786" N
Longitude	85°23'40.83562" to 85°25'05.09920"E
Topo Sheet No.	73G/5

(2) Geology

The lease area is a south eastern part of the Singhbhum - Keonjhar-Bonai belt, a narrow NNE - SSW trending folded synclinorium of 60 Km long and 25 Km wide. This deposit

occupies a south-central position on the eastern limb of the synclinorium. This Precambrian horse-shoe shaped belt is well known for its large reserves of iron and manganese ore.

During the field studies, it was found that the local structural elements are compatible with the general regional trend of the eastern limb of the synclinorium. The main rock types found in this mines are Laterite, lateritic iron ore, Hematite (Massive, Laminated, blue dust), BHJ/BHQ. In the ML area, iron ore found as mainly hard massive laminated and powdery variety. The strike of the ore body/host rock is along NE – SW. In block-F, the dip is due east varying from 30-45° and in the block – A, it varies from 34° - 49° due east. In the Kalimati pit, the dip of the ore body is due west varying from 28° to 51°. These normally confirm to the regional trend of the rock bed.

The lithological succession established as observed within the leasehold area are compatible with other locations on the western limb of the synclinorium. The important ore types are hematite with minor portion of Goethite and limonite. The iron ore is occurring in the form of hard lumpy, laminated, friable and powdery ore.

The Balda block iron ore mine discerns a fairly wide range of rock types of the iron ore group. The different lithological units present can be broadly categorized into three major groups, namely -

- (a) Laterite/ Lateritic iron ore
- (b) Iron Ore formations (BIF), stratiform deposit such as BHJ/BHQ.
- (b) Argillaceous formations such as shale.

(3) Problems associated with mining of the deposit etc.; Not Any.

(b) Description on deployment of mining machinery

Type of Machinery		Capacity of each type of machiner y	Units (in which capacity is reported)	No of machin ery	Electrical- Non- elctrical specify)	Used in Opencast / underground (specify)
1	Stationary					
1	Crusher	175 TPH	500 HP	1	Electrical	
2					Non	
	Mobile Crusher	150 TPH	390 HP	2	Electrical	
3	Stationary					
3	Crusher	200 TPH	300 HP	1	Dual Power	
4	Stationary					Opanaget
4	Screening Plant	1500 TPH	1600 HP	1	Electrical	Opencast
5	Mobile Screen				Non	
)	Plant	150 TPH	100 HP	6	Electrical	
6	Mobile Screen					
	Plant	250TPH	204HP	3	Dual Power	
7	Excavator (PC				Non	
/	2000)	9 Cu.m	976 HP	2	Electrical	

8	Excavator (PC				Non
8	300)	2.1 Cu.m	246 HP	9	Electrical
9	Excavator (Zx				Non
9	670)	4.2 Cu.m	460 HP	1	Electrical
10	Excavator (PC				Non
10	200)	1 Cu.m	143 HP	6	Electrical
11	Excavator				Non
	(Volvo 210)	1.2 Cu.m	132 HP	1	Electrical
12	Excavator (EX	1.0	100 HD	1	Non
	200)	1 Cu.m	132 HP	1	Electrical
13	Excavator (EX	0.6500	60 IID	5	Non Electrical
	110) Loader (WA	0.65Cu.m	80 HP	3	Electrical Non
14	900)	9 Cu.m	853 HP	2	Electrical
	700)	7 Cu.III	633 III	<u> </u>	Non
15	Loader (L 950)	11 Cu.m	1050HP	1	Electrical
	Louder (L')20)	11 00	1020111	1	Non
16	Loader (L 220G)	4.7 Cu.m	373 HP	2	Electrical
1.7	Loader (SDLG				Non
17	LG 958)	3 Cu.m	230 HP	1	Electrical
18	Loader (L 120F)	3 Cu.m	179 HP	3	Non
10					Electrical
19					Non
1)	Loader (950 H)	2.7 Cu.m	197 HP	3	Electrical
20	Loader (HL-760-				Non
	7A)	4.3 Cu.m	205 HP	1	Electrical
21	HD 705 D	100 5	1200 HD	10	Non
	HD 785 Dumper	100 Tons	1200 HP	12	Electrical
22	2 DH 95T Dumas 05 Ta		877 HP	8	Non Electrical
	BH 85T Dumper	85 Tons	0//ПР	0	Non
23	BH 50T Dumper	50 Tons	648 HP	4	Electrical
	BIT 301 Dumper	30 10113	040111		Non
24	BH 40T Dumper	40 Tons	400 HP	8	Electrical
	211 to 1 2 uniper		100 111		Non
25	Grader		280 HP	1	Electrical
26					Non
26	Drilling D-40	115 MM	260 HP	3	Electrical
27					Non
41	Dozer	-	324 HP	2	Electrical
28				_	Non
	Rock Breaker		123 HP	3	Electrical
29	Weigh Bridge	60 Tons		8	Electrical
20	Miscellaneous	(2-28 KL	1200 110	10	Non
30	water& Diesel	4-12 KL	1300 HP	10	Electrical
	Tanker etc.,	4-18KL)			

3. Implementation of Mining Plan or Review of Mining Plan:

J. 1111p	5. Implementation of withing I tan of Keview of withing I tan.									
Sl.No	Proposal in the	Observations regarding implementation of	Remarks							
	approved	proposals given in approved Mining Plan or								
	Mining Plan or	Review of Mining plan								
	Review of									
	Mining plan									

1	1 2 3 4							
(1) CONSERVATION OF MINERALS								
(a)	Exploration	Year Borehole Borehole Actual Proposed				The violation letter was issued under Rule 11(1) of MCDR, 2017 vide this office		
			2016-17 0 0		letter dated 27.03.2018 for deviation in exploration proposal.			
(b)	Utilization of sub-grade mineral	Out of the of Sub-Grade material generated during the plan period, 70% will be directly blended with High grade material to make it saleable and the balance was stocked in the subgrade dump.						
(c)	Any other proposal for monitoring SCIENTIFIC MI	No propos	al 					
(2)		111110						During site
	Mine Development and method of mining	Year Proposed in Metric Tonnes 2016-17 15.0 10.78 2017-18 (Feb'18) 15.0 8.21 The mining is proposed to be carried out by open cast Fully Mechanized method. Hydraulic drills with 102mm dia, 85 tonne dumpers and 9.0 cum excavator have been deployed within the lease area for smooth operation of mines. During the ensuing plan period, it has been envisaged to work within the Block-A, Kalimati pit and F1-quarry.		inspection it was observed that the waste dumping is not carried out in the proposed area. The dumping was carried out over the waste dump-2 and the same is extended around 0.64 ha towards grid line 2421053. The violation letter was issued under Rule 11(1) of MCDR, 2017 vide this office letter dated 27.03.2018 for such deviation.				
(b)	Handling of Waste/ sub- grade material	Ye		Propo Wast Ton	te in nes	Actual in Waste Tonnes		
		2016 2017 (FEB	7-18	6348 7700		1280678 343755		
	J	(1 L)	10)	l		l	<u> </u>	<u> </u>

		material generated will be directly terial to make it		Out of th				
		s stocked in the						
	No mined out area is matured for reclamation and rehabilitation.					(c)		
	No proposal					(d)		
	(3) PROTECTION OF ENVIRONMENT							
		No. of Plantation Achieved	No. of Plantation Proposed	Year	Afforestation	(a)		
		10809	5250	2016-17				
		6630	3500	2017-18				
		gular interval and is	is monitored in remissible standard	` '	Quality of air	(b)		
Quality of water is monitored in regular interval and is within the permissible standard.					Quality of Water	(c)		
Noise level is monitored and is within the permissible limit.					Noise level	(d)		
			sible limit	Under permi	Vibration	(e)		
				No Proposal	Any other	(f)		
		No. of Plantation Achieved 10809 6630 gular interval and is a regular interval and rd.	No. of Plantation Proposed 5250 3500 is monitored in remissible standard ter is monitored in permissible standard monitored and is mit.	Year 2016-17 2017-18 Quality of air within the permissible I Under permi	Afforestation Quality of air Quality of Water Noise level Vibration	(d) (3) (a) (b) (c) (d) (e)		

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

SL	Date of	Name of	Violations of MCDR,	Rectification of	Remarks
No.	Inspection	inspecting	2017 observed and	violations	
		officer	pointed out		
1	2	3	4	5	6
		Shri Dayanand	Violation of Rule 11(1)		
1		Upadhyay, SR	was observed and pointed	Complied on	
1	13.06.2017	ACOM, & Shri	out to lessee on	29.08.2017	
		Dilip Jain,JMG	23.06.2017		
			Violation of Rule 11(1)		
2	18.03.2018	Shri Harkesh	was observed and pointed		
2	16.03.2018	Meena, RCOM	out to lessee on		
			27.03.2018.		

5. Socio-Economic Development Plan:

5. Socio-Economic Development Flan:									
Sl. No.	Proposed Action Plan towards	Expenditure proposed	Expenditure Incurred	Remarks					
	socio-Economic	for 17-18	for 17-18						
	Development	(In Rs.	(In Rs.						
	•	Lakh)	Lakh)						
1	2	3	4	5					
(1)	General								
	Development in the								
	area								
	(i) Housing								
	(ii)Water Supply	25.00	16.42						
	(iii) Sanitation	45.00	26.01						
	(iv) Health safety	75.00	73.65						
	and Medical								
	Facilities								
(2)	Education and	24.00	7.59						
	Training								
(3)	Employment to	10.00	4.00						
	local inhabitants								
(4)	Public		63.63						
	Transportation and								
	communication								
(5)	Recreation and	10.00	3.01						
	other sports								
	activities								
(6)	Expenditure for	75.00	73.08						
	environment								
	management								
(7)	Other	147.00	54.38						
	Total	411.00	321.77						

(HARKESH MEENA) Regional Controller of Mines