

**REPORT ON CHECK INSPECTION OF DUARGUIBURU LEASE OF GUA ORE MINE
OF STEEL AUTHORITY OF INDIA LIMITED IN SINGHBHUM (W) DISTRICT**

**Name and designation of inspecting officer : Shri Anupam Nandi, RCOM,
Date of Inspection : 13.03.2019**

1. General information of the mine:

- i) Name of mine : **Gua Ore Mines, RMD M/s. Steel Authority of India Ltd. Duarguiburu Lease,**
- ii) Owner : Shri Anil Kumar Chaudhary, Chairman (SAIL)
- iii) Nominated Owner : Shri Vivek Kumar Gupta, ED (Operations & Projects)
- iv) Mining Engineer : Shri C.N. Kumar
- v) Agent : Shri Anirudh Sharma
- vi) Mine Manager : Shri C.N. Kumar
- vii) Lease Area : 1443.756 Hect.
- viii) Location : Vill: Gua, Dist.: Singhbhum (W), State: Jharkhand
- ix) Lease Period : 20 years
- x) Date of Expiry : 21.02.2029
- xi) Date of approval of Mining Plan : 18.08.2010
- xii) Date of approval of scheme: 14.10.2015
- xiii) Period of Mining Plan/ Scheme of Mining : 2009 to 2014 (modified mining plan)
: 2014 to 2019 (scheme of mining)
Period of MP : 2019-20 to 2023-24
- xiv) Production (Year 2017-18) : 3979700 Tones

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.

The ore body is physically examined and delineated with approx 6.5-7.0 km length, 0.12-0.15 km and 0.15-0.20 km average width and thickness respectively. Total lease area of Gua Ore Mines is 1443.756 Ha out of 274.0 Ha has been explored i.e. 19% of the whole ore body. The lateral and vertical continuity of ore bands have been examined. The average grade of the ore body is 61.50-62.0% of Iron and 3.5-4.0% of Silica and 2.8-3.0% Al₂O₃ which is suitable for hot metal production for steel manufacturing.

b) Description on deployment of mining machinery may be given in the following format.

Deployment of mining machinery:

Sl No	Machineries Capacity deployed	Number of Units	In use	Ideal	Percentage Of utilization	Brief description	Remarks
1.	SHOVEL (HYDRAULIC) 9.500 CUM	02	OPERATION	-	67%	Departmental HEMM	Non Electrical
2.	SHOVEL (HYDRAULIC) 7.500 CUM	01	BREAK DOWN	B/D	-	Departmental HEMM	Non Electrical
3.	DUMPER 100.000 TONNE 6 Non Electrical Opencast	06	OPERATION-04 BREAK DOWN-02	B/D-02	75%	Departmental HEMM	Non Electrical
4.	DUMPER 50.000 TONNE	03	OPERATION	-	40%	Departmental HEMM	Non Electrical
5.	DOZER 616.000 HP	06	OPERATION-04 BREAK DOWN-02	B/D-02	76%	Departmental HEMM	Non Electrical
6.	BACK HOE 1.200 CUM	01	OPERATION	-	85%	Departmental HEMM	Non Electrical
7.	BACK HOE 1.620 CUM	01	OPERATION	-	70%	Departmental HEMM	Non Electrical
8.	ROCK DRILL (ELEC.) 150.000 MM	04	OPERATION	-	68%	Contractual HEMM	Non Electrical
9.	MOTOR GRADER 280.000 HP	02	OPERATION	-	45%	Departmental HEMM	Non Electrical

3. Implementation of Mining Plan or scheme of Mining:

Sr. No.	Proposal in the approved Mining Plan or Scheme of mining (Period from 2014-2019)	Observations regarding implementation of proposals given in approved Mining Plan or Scheme of mining.	Remarks
1.	CONSERVATION OF MINERALS		
a)	Exploration: 34 boreholes proposed	02 BH, 04 Trenches with total length-143m	2 nd Stage FC is awaited
b)	Utilization of subgrade mineral: 0.29 MT subgrade generation 2017-18	0.045 MT processed through blending.	
c)	Any other proposal for monitoring: Beneficiation plant (10.0 MT) proposed	NIL	Due to statutory clearance
2.	SCIENTIFIC MINING		
a)	Mine Development and method of mining	OB removal proposal to be initiated To maintain the stripping ratio scientific mining is done through OB/IB removal from departmental and contractual ways.	No depletion of minerals in any pit of mines
b)	Handling of Waste/subgrade material:	8.0 lakh te OB removal from Bai-Hill area 16.0 lakh te OB removal from O.T. Hill area	
c)	Area reclamation & restoration:	No reclamation and rehabilitation.	
d)	Any other proposal for monitoring:	NIL	
3.	PROTECTION OF ENVIRONMENT		
a)	Afforestation: 500 plants	3000 plants in 2017-18 2500 plants in 2018-19	1.23 million Plants cumulative since 1984. With survival rate 55%
b)	Quality of Air: Monthly/Quarterly monitoring	Monthly/Quarterly monitoring done	Quarterly JSPCB monitoring report enclosed.
c)	Quality of Water: Monthly/Quarterly monitoring		
d)	Noise Level:		
e)	Vibration:	Regularly, Conducted through outside agency	
f)	Any other proposal for monitoring:	Continuous Ambient Air Quality Monitoring (CAAQM) station.	(CAAQM) installed at township area and working

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.	03.10.2017	Shri B.P. Karketta Senior Asst. Controller of Mines, Ranchi Region	KOL/JHK/SB(W)Fe(G-1), dt 03.10.2017	Gua /E&L/IBM-violation/17-18/159, dt 09.10.2017	Annual & monthly IBM returns
2.	26.10.2017	Shri B.P. Karketta Senior ACOM, Ranchi Region	Rule 11(1),35(2) &45(7)	Rule45(7) complied and Rule 35(2) and (1) under process.	Exploration,CARTOSA T-2, rectification of fines heap reserve as 26.0 MT
3.	30.01.2018	Shri. B.P. Karketta, Sr ACOM. Dr. Sudhakara T.L. Senior Mining Geologist. Shri. Naman Ekka, Jr Mining Geologist.	Rule 11(1)	Compliance under procedss.	Mining operation as per approved scheme of mining.
4.	06.11.2018	Shri B.P. Karketta Senior ACOM, Ranchi Region	Rule 11(1)and 35(2)	Rule35(2) complied and Rule 11(1) compliance under process.	Exploration (Boreholes) as per SOM.

5. Socio-Economic Development Plan (CSR) 2018-19:

Sl. No.	Proposed Action Plan towards Socio-Economic Development	Detailed head	Expenditure Proposed (In Rs. Lakh)	Expenditure Incurred (In Rs. Lakh)	Remarks
1.	General Development in the area				
	i) Housing		-	-	-
	ii) Water Supply	Providing raw material support & Infrastructure development	12.0	6.30	55%
		Installation of deep bore well & Water	16.47	13.93	80%

		Tower 2 nos.			
		Providing drinking water in 2 schools by installing 2 nos. hand pumps	2.0	1.23	64%
	iii) Sanitation		35	32	97%
	iv) Health, Safety and Medical Facilities	Medical camp & treatment	6.50	4.97	80%
2.	Education and Training	Honorarium to Para teacher	6.53	6.52	completed
		Sponsoring Furniture	5.50	5.58	completed
		Distribution of Uniform & Books etc.	-	32497.00	completed
		Adopting SA School, Sonua	5.0	4.97	Completed
3.	Employment to local inhabitants	Women Empowerment, Providing raw material support & Infrastructure development	12.0	6.30	55%
		ITI Rourkela	7.50	698500.00	100%
		ITI Gua	130.00		
4.	Public Transportation and communication	Provided to bus from Bara Jamda to Gua for local train and Janashatabdi Exp.	12.00	12.00	100%
		Provided bus to Barbil for Saint Marry School students	12.00	12.00	100%
5.	Recreation and other sports activities	Sponsoring Sports & culture in periphery villages	2.0	1.96	98%
6.	Expenditure for environment management	-			
7.	Other				
	Total:				

(Anupam Nandi)
Regional Controller of Mines
& Inspecting Officer

