

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Kolkata regional office

Mine file No : KOL/JHK/SB(W)/Fe(B-7)

Mine code : 30BHR27004

- (i) Name of the Inspecting : **E025**) **NAMAN EKKA**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 17/10/2018
- (v) Prev.inspection date : 11/03/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BARAIBURU TATIBA**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : JHARKHAND
District : SINGHBHUM (WEST)
Village : BARAIBURU TATIBA
Taluka : CHAIBASA
Post office : BARAIBURU VIA BARAJAMDA
Pin Code : 833221
FAX No. : 06767-275367
E-mail : Rjm.barbil@adityabirla.com
Phone : 06767-275240
- (f) Police Station : KIRUBURU
- (g) First opening date : 08/12/1966
- (h) Weekly day of rest : SUN
2. Address for : THE RAMESHWARA JUTE MILLS LTD
correspondance PO: BARAIBURU (VIA-BARAJAMDA)
DISTRICT: WEST SINGHBHUM, JHARKHAND-833221
3. (a) Lease Number : BHR0068
- (b) Lease area : 259
- (c) Period of lease : 20
- (d) Date of Expiry : 27/05/1986
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : RAMESHWAR JUTE MILLS LTD.
P.O-BARAIBURI (VIA-
BARAJAMDA) DIIST-WEST
SINGHBHUM JHARKHAND
SINGHBHUM (WEST) JHARKHAND
Phone:033-228277
FAX :033-22825443

Owner : HUKUM CHAND DAGA
2, ROWLAND ROAD BLOCK A/1,
4TH FLOOR KOLKATA - 700 020
KOLKATA WEST BENGAL
Phone: 09830044449/ 22
FAX : 033-22825443

Agent : KRISHNA KANT DUBEY
ESSEL MINING CAMPUS P.O-
BARBIL, DIST.-KENDUJHAR
ODISHA SINGHBHUM (WEST)
JHARKHAND
Phone:
FAX :

Mining Engineer

Name : Sunil Kumar Sinha,Full Time
Qualification : AMIE (Mining)
Appointment/ : 01/12/2017
Termination date

Geologist

Name : Praween Kumar Pradhan,Full Time
Qualification : M Sc (Geology)
Appointment/ : 01/12/2017
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	01/11/2004
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	13/11/2009
	:	Mining Scheme rule 12 MCDR1988	05/07/2011
	:	MP review under 17(1) MCR 2016	19/05/2017
	:	FMCP under 23C(1)	13/09/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	No Work Done. Mines was not working in 2016-17	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.
1b	Exploration over lease area for geological axis 1 or 2	NIL	No Work Done. Mines was not working in 2015-16	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NIL	No Work Done. Mines was not working in 2015-16	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.

1d	Balance area to be explored to bring Geological axis in 1 or 2		No Work Done. Mines was not working in 2015-16	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.
1e	Balance reserve as on 01/04/20	Balance Reserves for IRON as on 2014 111 - 3.409 MT 221- 26.794 MT 333 - 3.485 MT MT	Balance Reserves for IRON 111 - 3.409 MT 221- 26.794 MT 333 - 3.485 MT	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.
		Balance Reserves for MN 121- 21.942 MT 221 - 8.261 MT MT 333 - 3.485 MT MT	Balance Reserves for MN 121- 21.942 MT 221 - 8.261 MT	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	<p>IRON ORE: Zone - A (Baraiburu Broken forest area) Quarry Nos. 3, 5, 7,10B, Road Side, 1B, 1C & 10A. Zone - B (Tatiba) Tatiba Face - 4, 9, 11, 2, 5 & 7. MANGANESE ORE - Luck Pit.</p>	<p>Iron Ore: Zone A (Baraiburu Broken Forest Area) Quarry-3 & 5. Zone B (Tatiba) Tatiba: 4, 9, 11 Manganese Ore: Lucky Pit.</p>	<p>Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015. Initially DFO Saranda allowed for mining within only in Quarry no 1A, 1B, & 5.</p>
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposal	Top soil production is very meager which were used for existing in green belt area. Waste is not generated during the processing operations.	
2c	Stripping ratio or ore to OB ratio	1:0	1:0	
2d	Quantity of topsoil generation in m3	No Propasal	No topsoil generated as reported by lessee.	
2e	Quantity of overburden generation in m3	No proposal	No overburden generated as reported by the lessee.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		<p>Mining was confined to:- Iron Ore: Zone A (Baraiburu Broken Forest Area) Quarry-3 & 5.; Zone B (Tatiba) Tatiba: 4, 9, 11 Manganese Ore: Lucky Pit. No overburden, topsoil has been generated, and ore : waste ratio has been kept to 1:0.</p>	<p>Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015. Initially DFO Saranda allowed for mining within only in Quarry no 1A, 1B, & 5.</p>

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	13 Quarry.	04 Quarry.	
3b	Quantity of ROM mineral production proposed	1049999.280 MT	143883.060 MT	Mining operation resumed on 9/11/2017 and in production only for 4 month.
3c	Recovery of sailable/usable mineral from ROM production	83999.94 MT	143143.1 MT	Mining operation resumed on 9/11/2017 and in production only for 4 month.
3d	Quantity of mineral reject generation	67199.95 MT	0 MT	
3e	Grade of mineral rejects generation and threshold value declared.	Below 45% Fe	Below 45% Fe	
3f	Quantity of sub grade mineral generation.	58799.96 MT	740.000 MT	Mining operation resumed on 9/11/2017 and in production only for 4 month.
3g	Grade of sub grade mineral generation	45-54 % Fe.	45-54 % Fe.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	SGS India Private Ltd. for sampling and analysis has been deployed by the Lessee.	
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height Of benches in Mineral - 6 m	During inspection height of 6m in Mineral benches were found.	
3m	Total area covered under excavation/pits	28.070 Ha.	23.0459 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.00 (In MT/MT)	1:0.00 (In MT/MT)	
3o	Total area put in use under different heads at the end of year	Excavated area 28.070 Ha. O/B Dumps 0.389 Ha. Road 5.60 Ha. Reclaimed area 0.23 Ha. Green belt 2.5 Ha. Sub grade stack (Previous O/B dump) 1.492 Ha. Infrastructure 0.30 Ha.	Excavated area 28.070 Ha. O/B Dumps 0.389 Ha. Road 5.60 Ha. Reclaimed area 0.23 Ha. Green belt 2.5 Ha. Sub grade stack (Previous O/B dump) 1.492 Ha. Infrastructure 0.30 Ha. Total Area - 38.581 Ha.	
3p	Production of ROM mineral during the last five year period as applicable	For Iron 2011-12 - 784035 T 2012-13 - 1202850 T 2013-14 - 2259953 T 2014-15 - 2259743 T 2015-16 - 2259850 T For Mn 2011-12 - 3350 T 2012-13 - 3366 T 2013-14 - 3345 T 2014-15 - 3340 T 2015-16 - 3988 T	For Iron 2011-12 - 18888.160 T 2012-13 - 0.00 T 2013-14 - 321865.830 T 2014-15 - 77345.00 T 2015-16 - 0.00 T For Mn 2011-12 - 1379.94 T 2012-13 - 0.00 T 2013-14 - 0.00 T 2014-15 - 0.00 T 2015-16 - 0.00 T	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014.

3q	General remarks of inspecting officers on method of mining etc.	Not applicable.	During the previous approved Plan Period mining operation was carried out only in 2011-12 (for nearly two month), May 2013 to Aug 2014 with aggregate of 16 Months. Also FC for additional area was lying pending. As such the targeted exploration could not been carried out. Mining operation resumed on 9/11/2017 and in production only for 4 month.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No Proposal	Top soil production is very meager which were used for existing in green belt area. Waste is not generated during the processing operations.	
4b	Location of topsoil, OB and mineral reject dumps	No Proposal	Top soil production is very meager which were used for existing in green belt area. Waste is not generated during the processing operations.	
4c	Number of dumps within lease area and outside of lease area	No Proposal	No waste Dump within the lease Area and outside the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	No Waste / OB Dump within the lease area.	
4e	Number of active and alive dumps.	No Proposal	No Waste / OB Dump within the lease area	
4f	Number of dead dumps.	No proposal	No dead dumps within the lease area.	
4g	Number of dumps established.	No Proposal	No dumps has been established in 2017-18	
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	No dumps within the lease area.	

4i	Length of Retaining wall or garland drain all along dumps	No proposal	No dumps exists.
4j	Number of settling ponds	No Proposal	1 settling pond exists after garland drain around the ROM Stock.
4k	Specific comments of inspecting officer on waste dump management		No waste dumps exists within the lease area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal	No pits exhausted	
5b	Area under backfilling of mined out area	No propoal	No backfilling has been carried out in the mines out area.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal.	No Work Done.	
5d	Total area fully reclaimed and rehabilitated	0.23 Ha area has been reclaimed.	0.23 Ha area has been reclaimed. Rain water harvesting pond & Bamboo Plantation has been done in the reclaimed area.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		0.23 Ha area has been reclaimed. Rain water harvesting pond & Bamboo Plantation has been done in the reclaimed area.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM - 1049999.28 MT	ROM : 143883.06 MT Lump(60-62) : 67487 MT Lump(58-60) : 1360 MT Fines(55-58) : 64622 Mt Fines(45-55) : 740 Mt
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised , mobile crushing/screening unit within the lease area from where the finished product of 10-40 mm & 5-18 mm and fines area generated.
7c	Different grade of mineral sorted out at mines.	No Proposal	In Lumps 60 to 62 % In Fines - Bleow 55 % & 55 to 58 %
7d	Any beneficiation process at mines .	Mobile crushing/scree ning unit within the lease area from where the finished product of 10-40 mm & 5-18 mm	Mobile crushing/screening unit within the lease area from where the finished product of 10-40 mm & 5-18 mm area generated.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal	Mobile crushing/screening unit within the lease area from where the finished product of 10-40 mm & 5-18 mm are generated.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	Yes, very meagre quantity generated and utilized for plantation in the 7.5 m barrier.	
8b	Concurrent use or storage of topsoil	No proposal	Yes, very meagre quantity generated and utilized for plantation in the 7.5 m barrier.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumps for Fines and Lumps were proposed	Seperate dumps for Fines and Lumps as proposed was present during inspection.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	No work done against use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	No Phased restoration, reclamation and rehabilitation of lands affected by mining operations (pits, dumps) has been done on 2017-18.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Gross plantation area within lease: 7.7 Ha. (Including safety zone)

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Monthly and Annual Returns has been submitted Online by the Lessee	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge - Sunil Kumar Sinha Geologist in charge - Praween Kumar Pradhan	Mining Engineer at the time of inspection Name : Sunil Kumar Sinha Qualification : B.Tech Mining Engineering (AMIE) Geologist at the time of inspection Name : Praween Kumar Pradhan Qualification : M.Sc (Geology)	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<p>Already exploited & abandoned by opencast (O/C) mining - 13.938 (Forest), 5.088(Non-forest) = 19.026 Ha.</p> <p>Total Covered under current (O/C) Workings - 4.023 (Forest),= 4.023 Ha.</p> <p>Total Reclaimed/Rehabilitated - 0.23 Ha. (Non-Forest)</p> <p>Total Occupied by plant, buildings, residential, welfare buildings & roads - 6.033 HA(Forest), 2.470 Ha. (Non-Forest) = 8.500 Ha.</p> <p>Total Other Purpose (used for subgrade, mineral stacking , Processing area and miscellaneous) - 8.721 Total.</p>	<p>Already exploited & abandoned by opencast (O/C) mining - 13.938 (Forest), 5.088(Non-forest) = 19.026 Ha.</p> <p>Total Covered under current (O/C) Workings - 4.023 (Forest),= 4.023 Ha.</p> <p>Total Reclaimed/Rehabilitated - 0.23 Ha. (Non-Forest)</p> <p>Total Occupied by plant, buildings, residential, welfare buildings & roads - 6.033 HA(Forest), 2.470 Ha. (Non-Forest) = 8.500 Ha.</p> <p>Total Other Purpose (used for subgrade, mineral stacking , Processing area and miscellaneous) - 8.721 Total.</p>	<p>Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.</p>
9d	Scrutiny of Annual return on afforestation	<p>Number of trees planted during the year</p> <p>Within lease area - 0</p> <p>Outside lease area - 6600</p> <p>with a survival rate = 80%</p>	<p>No trees were planted during 2017-18 within lease area. But there was the proposal of 1650 Trees to be planted within the lease area covering an area of 0.66 Ha.</p>	<p>Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.</p>

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Rejects (Iron) - Quantity - 0 Mineral Rejects (Mn) - Quantity - 0	No Mineral Rejects were generated.	Mining Operations were suspended by Govt. of Jharkhand Vide Letter No. 458 dated 04/09/2014. The Mining Operations started in November 2017, after extension of Lease by State Govt. as per MMDR Amendment Act 2015.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stock (at the end of 2017-18) ROM Lumps 58% to 60% - 1366.990 T 60% to below 62% - 46455.870 T Stock (at the end of 2017-18) ROM Fines Below 55% - 4666.00 T 55% to below 58% - 110181.840 T	Stock (at the end of 2017-18) ROM Lumps 58% to 60% - 1366.990 T 60% to below 62% - 46455.870 T Stock (at the end of 2017-18) ROM Fines Below 55% - 4666.00 T 55% to below 58% - 110181.840 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price Lumps(Iron) 58% to below 60% - Rs. 1389.00 60% to below 62% - Rs. 3223.00 Fines- Below 55% - Rs. 1127.00 55% to below 58% - Rs. 1147.00	No Deficiency observed.	
9h	Scrutiny of Annual return on fixed assets	Industrial Building - Rs. 2887096.00 Plant and Machinery including transport equipment - Rs. 861017 Total Value - Rs. 3748113.00	Mines office and Machinery for transportation of ore and material were used, it seems to be correct	

9k Scrutiny of Back Hoe - 5 Mining machinery were
Annual return on nos in operation during
mining Blast Hoel inspection, details
machineries Drill - 1 nos. given in Annual report
 Front end seems to be correct.
 loaders - 4
 nos.
 Dumper - 16
 nos.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show couse position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(NAMAN EKKA)

Indian Bureau of Mines