



**Regional Controller of Mines,
Indian Bureau of Mines,
Plot No. 149, In front of CPWD Office,
Pokhariput,
Bhubaneswar – 751 020.**

Ref. No. MGM/P&E/ 267/24
Date: 27.06.2024

Sub : Submission of Data pertaining to Sustainable Development Framework (SDF) for the year 2023-24 in respect of our Bamebari Iron & Mn. Mine of Tata Steel Ltd. in the Keonjhar District of Odisha.

Dear Sir,

With pursuance to the Rule 35 (2) of the MCDR, 2017, we are submitting herewith the hard copy of online data pertaining to Sustainable Development Framework (SDF) for the year 2023-24 in respect of Bamebari Iron & Mn. Mine over an area of 464 ha (intended to retain area) of Tata Steel Ltd. in the Keonjhar District of Odisha as **Annexure – 1**.

This is for your kind perusal.

Thanking You.

Yours faithfully,
F: Tata Steel Ltd.

Manager,
Bamebari Iron & Mn. Mine

Enclosure – Annexure – 1 – Downloaded online data on SDF for the year 2023-24.

TATA STEEL LTD.

Ferro Alloys & Minerals Division, Manganese Group of Mines, At/P.O. Bichhakundi, Via – Joda,
Dist. Keonjhar, Odisha – 758034, Tel. +91 6372901872, e-mail: chiefofficemgm@tatasteel.com
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EVALUATION TEMPLATE FOR STAR RATING OF MINING LEASES-OTHER THAN SMALL MINES

Criteria for Filing of Template

Other Than Small Mines: All mines having lease area 25 ha or more
or
having ROM Production 50,000 T or more

- Information pertaining to “Part-I: General Information” shall be auto-fetched from the details given in the Mining Plan/ Form-K, wherever applicable.
- Kml file from Mining Plan to be automatically fetched/ shown.
- Kml file for the RY (updated plans/ sections as per Rule 33 of MCDR 2017) to be uploaded.

REPORTING YEAR(RY): 2023 - 2024

ASSESSMENT YEAR(AY): 2024 - 2025

Part 1 : General Information

1.1 : Lease Details

Name of Mining Lease :	BAMEBARI
Name of the Lessee : Phone of the Lessee : Email of the Lessee : Address of Lessee :	Tata Steel Limited 9262699403 Gm.office@tatasteel.com Bombay House,24 Horni Mody Street Fort, Mumbai

State : District : Tehsil/ Taluk/ Mandal : Village :	Nil		
Mine Code (for ML):	40ORI08003		
IBM Registration Number (under rule 45 of MCDR, 1988):	IBM/4376/2011		
Name of Minerals :	MANGANESE ORE		
Total Lease Area (ha) : • (i) Forest Land (Ha) • (ii) Private Land (ha) • (iii) Revenue land (ha) • (iv) Others, if any(Specify)	464 • 448.3950 • 15.5020 • 0.1030 • 0.0000		
Lease period (valid up to) :	2030-03-31		
Reserves (As per UNFC 111,121 & 122) as on End of the reporting year.(In million tonnes) :	2.611076		
Resources as on End of the reporting year. In million tonnes :	4.632470		
Method of Mining(Opencast/ Underground, Opencast & Underground) :	Opencast		
Category - A / B (as per Rule 55(2) of MCDR, 2017) :	A		
Captive/Non Captive :	Captive		
Name and contact details of all the members of Sustainable Development Unit (SDU) :			
SR.No	Name	Designation	Contact Number
1	Niranjan Kumar	Mine Manager	9204058109
2	Alok Singh Sardar	Mining Engineer	8769579977

3	Ravindra Kumar	Unit Head TSF	9237019777
4	Bishwa Ranjan Dash	Sr. Area Manager (Mine Planning)	7655024282
5	Pinak Mishra	Area Manager (HR)	7064423777
6	Sangeet Gopi	Regional geologist	7763807661
7	Dr. Raza Sarif	Sr. Registrar (Hospital, Joda)	8093754818
8	Sunny Kumar Bhalotia	Area Manager (F&A)	8114371277
9	Gaurav Dubey	Area Manager (Environment)	9264194724
Production during reporting year(Tonnes) :			82885.000000
Prominent surface feature of national importance,like monuments, place of worship, rivers, etc. if any. :			NA

1.2 Lease Area Utilisation

SR.NO.	Type Of Land Use(in ha)	Area put to use at the end of approved plan period	Area put to use at the beginning of RY	Area put to use during the RY	Cumulative area put to use at the end of RY	Remarks
1	Mining	101.1380	88.4850	0.2780	88.7630	Area Excavated.kmz
2	Top Soil Preservation	0.4500	0.0000	0.0000	0.0000	
3	OB / waste dump	57.1660	46.8840	0.0000	46.8840	Waste Dump.kmz
4	Mineral Storage	14.7080	9.6340	0.7130	10.3470	Mineral Storage.kmz
5	Infrastructure (Workshop,administrative building etc.)	5.4510	6.0960	0.0000	6.0960	Infrastructure.kmz

6	Roads	11.4200	11.4820	0.0000	11.4820	Road.kmz
7	Railways	0.0000	0.0000	0.0000	0.0000	
8	Tailing Pond	0.0000	0.0000	0.0000	0.0000	
9	Mineral Beneficiation plant	0.0000	0.0000	0.0000	0.0000	
10	Township	24.3500	24.3500	0.0000	24.3500	Township.kmz
11	Others	17.1500	21.3360	0.0000	21.3360	
12	Total area put to use	231.8330	208.2670	0.9910	209.2580	
13	Excavated area reclaimed	25.7950	19.8570	0.9580	20.8150	Reclamation by Back filling.kmz
14	Waste dump area reclaimed	42.2790	35.1290	3.2510	38.3800	Rehabilitation by Plantation.kmz

1.3 Royalty & Other Contributions

SR.NO.	Details	Amount paid in RY in Rupees	Remarks
1	Royalty/Dead rent paid	60795641.0000	
2	Contribution to DMF	18452931.0000	
3	Contribution to NMET	1231442.0000	
4	Amount Paid towards despatch sharing in Auction cases	0.0000	
5	Total of other cess or taxes paid to Government,in addition to above	0.0000	

1.4 Statutory Compliances

1.4.1. Environment Clearance, Order No. and validity :

Sr.No	Statutory Compliances	Letter No.	Date Approved	Validity	Annual Quantity Approved	Remarks
1	1.4.1. Environment Clearance, Order No. and validity :	J11015/85/2003-IA.II(M)	2005-11-17	2030-03-31	83200.0000 Ton	Environment Clearance.pdf
2	1.4.2. SPCB Approvals : (i) Consent to Establish	2474IND-II-CTE-6266	2019-03-11	2024-03-10	83200.0000 Ton	CTE Bamebari Mobile Screening.pdf
3	1.4.2. SPCB Approvals : (ii) Consent to Operate	544/IND-I-CON-189	2022-01-07	2025-03-31	83000.0000 Ton	CTO BIMM.pdf

1.4.3. Forest Clearance, Letter No. and details (If applicable) :

SR.No	Letter No.	Date Approved	Validity	Area in hectares	Remarks
1	F.No.-8-72/2008-FC	2007-01-25	2030-03-31	145	Bamebari FC Stage II.pdf

1.4.4. Wildlife Clearance (If applicable) :

SR.No	Letter No.	Date Approved	Validity	Remarks
1				

1.4.5. Central Ground Water Authority No Objection Certificate (If applicable) :

SR.No	Letter No.	Date Approved	Validity	Annual Quantity Approved	Remarks
1					

1.4.6. Land Acquisition details :

Total Area acquired/purchased so for	Total Ammount Paid
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0.0000	0.0000
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1.4.7. Compliance of Vishakha Committee Guidelines for prevention of women harassment at workplace. : Implemented

Final Submitted

Part 2 : Evaluation Template

Module I : Managing Impacts At The Mine Level

2.1.1 : Spending Towards SDF

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Constitution of SDU (Sustainable Development Unit) at Mine level - team of Mine management comprising of Technical, Financial, CSR, HRD, Environment heads for ensuring implementation of SDF principles.	Constituted	3	3	SDU_BIMM.pdf

* Total expenditure incurred for implementation of SDF at mine level including 1 Environment Protection, 2 Welfare activities in and around peripheral area including CSR Explanation: Expenditure is not over and above the statutory levies imposed by the Government, However, THIS EXCLUDES CONTRIBUTION TO DMF & NMET .is over and above the statutory levies imposed by the Government. (Note: 1. "Environment Protection" includes all activities undertaken for implementation of proposals as envisaged in PMCP including amelioration measures to contain environmental protection; reclamation and rehabilitation etc excluding welfare activities; CSR etc. 2: "Welfare activities in and around peripheral area including CSR" shall include all activities undertaken under Sustainable Mining of Mining Plan) * Committed Expenditure for "Welfare activities in and around peripheral area including CSR" shall be kept as Rs 10 per Ton (For Minerals having Rate of Royalty on Ad Valorem Basis) or Rs 5 per T (For minerals having Fixed rate of Royalty) total dispatches subject to a minimum of Rs 1 Lakh for small mines and 5 Lakh for other than small mines, or CSR as per Section 135 of the Companies Act, whichever is higher. Environment Protection Cost shall be the proposed/actual costs spent towards activities undertaken for implementation of proposals as envisaged in PMCP including amelioration measures to contain environmental protection; reclamation and rehabilitation etc excluding welfare activities; CSR etc.Total SDF expenditure shall be a sum of both attributes defined above.	<table><tr><th>Committed Expenditure (a)</th><th>Total Expenditure for SDF implementation (b)</th></tr><tr><td>72.7904</td><td>368.4899</td></tr></table>	Committed Expenditure (a)	Total Expenditure for SDF implementation (b)	72.7904	368.4899	5	10
Committed Expenditure (a)	Total Expenditure for SDF implementation (b)						
72.7904	368.4899						

CSR (Corporate Social Responsibility) spending at the mine level in Reporting Year (as per Companies Act, 2013 or otherwise)	Committed (in Lakhs) 8.3404	Utilised (in Lakhs) 307.4500	3	6	CSR Budget & Expenditure 2023-24.pdf
Reporting of CSR on National CSR Portal https://www.csr.gov.in	Reported		2	2	

2.1.2 : Exploration Activity

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks									
Exploration carried out (as per approved Mining Plan/ Review/ Modification in the Approved Mining Plan for the Reporting Year) Note: "Boreholes and Meterage" to be filled by the leaseholder under this item may be cumulative till the reporting year (in the current Mining Plan proposal period) as there are cases where the proposals are achieved at an early stage. Additional options for Pitting/ Trenching may be provided. Actual exploration shall be primarily measured on the basis of meterage, then secondary consideration shall be total number of boreholes/ Pit/ Trenches, however, Pit/ Trenches shall be considered only for the Small Mines having Surficial Deposits like Bauxite/ Floats etc.	Has the entire potential mineralised area been explored 100% : <table><tr><td></td><td>Proposed</td><td>Achieved</td></tr><tr><td>Boreholes:</td><td>0.0000</td><td>18.0000</td></tr><tr><td>Meterage:</td><td>0.0000</td><td>876.0000</td></tr></table>		Proposed	Achieved	Boreholes:	0.0000	18.0000	Meterage:	0.0000	876.0000	10	0	
	Proposed	Achieved											
Boreholes:	0.0000	18.0000											
Meterage:	0.0000	876.0000											
G Axis area status as on the beginning of RY	<table><tr><td>Area under G1: 58.8000</td><td rowspan="4">% age of potential mineralized area explored at G1 level</td></tr><tr><td>Area under G2: 22.6600</td></tr><tr><td>Area under G3: 0.0000</td></tr><tr><td>Area under G4: 28.6200</td></tr><tr><td colspan="2"> 56.6055 </td></tr></table>	Area under G1: 58.8000	% age of potential mineralized area explored at G1 level	Area under G2: 22.6600	Area under G3: 0.0000	Area under G4: 28.6200	56.6055		0	0			
Area under G1: 58.8000	% age of potential mineralized area explored at G1 level												
Area under G2: 22.6600													
Area under G3: 0.0000													
Area under G4: 28.6200													
56.6055													

G Axis area status as on the end of RY	Non Mineralised Area: 353,9200	5	3	
	Total potential mineralised area : 110.0800			
	Area under G1: 115.7260	5	5	
	Area under G2: 88.7170			
	Area under G3: 0.0000	5	5	
	Area under G4: 0.0000			
	Non Mineralised Area: 353,9200	5	5	
	Total potential mineralised area : 204.4430			
Use of MIS/ GIS/ Mining Planning softwares for optimum resource exploitation	Yes	5	5	

2.1.3 : Mining Operation : Opencast

Particulars	Details (To be filled up by Lessee)		Applicable Max Points	Points scored	Remarks
Production of mineral in tonnes mineral wise (Run of Mine)	Proposed	Actual	5	0	
	470000.0000	82885.0000			
Removal of waste/ over burden in cubic meters	Proposed	Actual	5	3	

		633328.0000	279188.5780							
Bench Height		<table><tr><td>Proposed</td><td>Actual</td></tr><tr><td>8.0000</td><td>8.0000</td></tr></table>		Proposed	Actual	8.0000	8.0000	3	3	
Proposed	Actual									
8.0000	8.0000									
Bench Width		<table><tr><td>Proposed</td><td>Actual</td></tr><tr><td>8.0000</td><td>8.0000</td></tr></table>		Proposed	Actual	8.0000	8.0000	3	3	
Proposed	Actual									
8.0000	8.0000									
Excavation		As per proposal		3	3					
Lateral Extent			Vertical Extent (in MRL)							
Proposed		Actual		Proposed	Actual					
E/W		N/s								
12312.0000	12790.0000	11288.0000	11630.0000	12288.0000	12789.0000	11285.0000				

2.1.5 : Zero Waste Mining

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks

Alternative use / Disposal as a percentage of total waste generation (excluding top soil) (Note: For underground mines, waste filled underground may be considered under "Alternative use". Further, permission granted under Rule 12(1)(k) of MCR 2016 may also be allowed to be included under this item.)	Disposal as minor mineral:				0	0
Not Applicable if mine has permission for caving						
Waste dumping (Locational aspects may be verified from KML files)	No Subsidence caused due to mining in reporting year				2	2
Proposal			Actual			
Lateral		Vertical	Lateral		Vertical	
E/W	N/S		E/W	N/S		
3047.0000	3543.0000	2182.0000	2730.0000	620.0000	3047.0000	3433.0000
					2182.0000	2494.0000
						577.0000

2.1.6 : Mineral Conservation

Particulars	Details (To be filled up by Lessee)		Applicable Max Points	Points scored	Remarks
Beneficiation practices for ROM/mineral reject / subgrade Not Applicable			0	0	
Blending of mineral reject / sub-grade	Quantity blended	Total mineral reject	5	4	
	4973.1000	11370.8650			

Separate stacking of mineral rejects/ subgrade mineral in earmarked area			As per proposal		2	2			
Proposed					Actual				
#	E/W		N/s		Quantity	E/W		N/s	Quantity
1	12456.0000	12807.0000	11620.0000	11731.0000	220000.0000	12588.0000	12796.0000	11620.0000	6397.7650
2	12800.0000	13034.0000	11600.0000	11697.0000	26598.0000	12912.0000	13046.0000	11600.0000	2571.0000

2.1.7 : Environment Compliances

Particulars

Details
(To be filled up by Lessee)

Applicable
Max Points

Points
scored

Remarks

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks				
Topsoil utilisation/stacking Not Applicable	Not Done	0	0					
Construction or maintenance of check dams Not Applicable	<table><tr><td>Proposed</td><td>Achievement(%)</td></tr><tr><td>0.0000</td><td>0.0000</td></tr></table>	Proposed	Achievement(%)	0.0000	0.0000	0	0	
Proposed	Achievement(%)							
0.0000	0.0000							
Construction or maintenance of garland drains	Proposed (in meters) Achieved (in meters) As per proposal <table><tr><td>Proposed</td><td>Actual</td></tr><tr><td>302.0000</td><td>150.0000</td></tr></table>	Proposed	Actual	302.0000	150.0000	1	0	The retaining wall & garland drain of 302m were proposed near extension of Waste Dump (D#1) at Joribar Block, but could not done due to no extension for want of Forest Clearance. 150m done for strengthening of existing walls)
Proposed	Actual							
302.0000	150.0000							
Construction or maintenance of retaining walls	<table><tr><td>Proposed</td><td>Achievement(%)</td></tr><tr><td>302.0000</td><td>50.0000</td></tr></table>	Proposed	Achievement(%)	302.0000	50.0000	1	0	
Proposed	Achievement(%)							
302.0000	50.0000							
Tailings disposal (applicable if beneficiation facility exists) Not Applicable	Conventional disposal methods	0	0					

Tailings Utilization (%age)	No Utilization				0	0									
Not Applicable															
Dust suppression measures undertaken in mining operation	<table><tr><td>Water sprinkling on haulage road</td><td>Wet drilling/Dust collector</td><td>Water mist spray at crusher</td><td>Covering of inactive dumps by geotextiles/plantation etc.</td></tr><tr><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></tr></table>				Water sprinkling on haulage road	Wet drilling/Dust collector	Water mist spray at crusher	Covering of inactive dumps by geotextiles/plantation etc.	Yes	Yes	Yes	Yes	4	4	1. Permanent water sprinkling & mobile water sprinkler arrangement for dust suppression on mine haul roads. 2. Drilling with wet drilling process is being carried out. 3. Mist canon is used in sorting yard for dust suppression.
Water sprinkling on haulage road	Wet drilling/Dust collector	Water mist spray at crusher	Covering of inactive dumps by geotextiles/plantation etc.												
Yes	Yes	Yes	Yes												
Disposal of used oil, lubricants through authorized vendors.	Yes				1	1									

2.1.8 : Ground Water Monitoring

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Central Ground Water Authority NOC obtained	Whether CGWA NOC obtained as per the Guidelines or not for abstraction of groundwater Obtained	1	1	Ground water NOC.pdf
Monitoring of Ground water as per CGWA NOC	Monitoring mechanism	1	1	

Ground Water Quality status (with reference to CGWA/ CGWB/ CPCB parameters)	Details about the GW Quality assessment Within permissible limits	2	2	
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2.1.9 : Water Usage

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Use of mine Water consumption pattern, if applicable	Usage of mine water by proper treatment and use for: Irrigation	5	3	Water sprinkling in mine haul road and irrigation of green belt areas.
Quantity of recycled water as a % of total water drawl from external sources such as bore wells, rivers or piped water, if applicable	Quantity of recycled water / Quantity of water drawn from external sources 1845000.0000 Litre 35754000.0000 Litre	5	1	

Innovative approach to save and conserve water in the process (Reduction of pumping with use of technology for mining and water management to minimize and mitigate the adverse impact on ground water, based on local conditions)	Zero leakage/ water loss in water pipelines, storage tanks and water use processes Yes	2	2	1. Floating valve in over head tank. 2. Pressurised water Sprinkling arrangement in water tanker & permanent water sprinkling system for mine haul road and water mist spray in sorting yard for dust suppression. Note- Mine pit water is reused for dust suppression as well as irrigation of the greenbelt areas. 3. Use of Hydrogel at the plantation site to reduce the water demand by plants. 4. Practice of mulching for ensuring loss of moisture and water.
	Drip irrigation or other conservation techniques Yes	2	2	Drip irrigation arrangement at Mango orchard

2.1.10 : Environmental Monitoring

Environmental Monitoring Standards	Core Zone	Buffer Zone	Applicable Max Points	Points scored	Remarks
a) Ambient Air Quality Standards laid down by MoEF&CC	Within Limit	Within Limit	3	3	AAQ Standard .pdf
	Standard attached as pdf	Standard attached as pdf			
b) Surface Water Quality Standards laid down by MoEF&CC	Within Limit	Within Limit	3	3	Surface water standard.pdf
	Standard attached as pdf	Standard attached as pdf			
c) Ground Water Quality Standards laid down by MoEF&CC	Within Limit	Within Limit	3	3	Ground water standard.pdf
	Standard attached as pdf	Standard attached as pdf			
d) Noise Level Standards laid down by DGMS	Within Limit	Within Limit	3	3	
	DGMS (Tech) circular 18 of 1975 (Protection of workers against Noise & Vibration in Working Environment.)	DGMS (Tech) circular 18 of 1975 (Protection of workers against Noise & Vibration in Working Environment.)			
e) Ground Vibration Standards laid down by DGMS	Within Limit	Within Limit	3	3	DGMS Circular 7 of 1997.pdf
	Standard attached as pdf	Standard attached as pdf			

2.1.11 : Green Energy Sourcing & Climate Change Initiatives

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Total Energy requirement in KWH Sourced from Green /renewable sources	648827.0000 44996.0000	4	0	
Implementing recommendations of Energy Audit in mining, ore processing etc. as per provisions of Energy Conservation Act, 2001	Yes	1	1	
Use of sensors and low energy consumption devices	Yes	2	2	1.Hybrid DG are using to save 50% of fuel . 2. AMF Panel installation done at Joribar Substation which stops DG automatically at main power resumes.
Innovation in energy saving				

Conservation of Fuel	Yes	2	2	1. Hybrid DG are using to save 50% of fuel. 2. Introduced the remote operation of pumps which save diesel of vehicle in operational point of view.
Conservation through other technical intervention. Please list.	Yes	2	2	15KWp KWp Solar plant installation at Joribar.

2.1.12 : Compliance Status

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Violations pointed out by IBM	Total no. of violations pointed out	8	6	
	Violations complied with			
	6.0000			
	6.0000			
Note: Proposal and achievement columns are with respect to the reporting year.				

Summary of Points obtained in Module-I	Module-I Applicable Maximum Points(1)	Module-I Points Scored(i)
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Only Opencast	19	12
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Final Submitted

Module II : Final/ Progressive Mine Closure & Landscape Restoration

2.2.1 : Particulars

Particulars	Details (To be filled up by Lessee)			Applicable Max Points	Points scored	Remarks
1) Backfilling as per approved Mining Plan Backfilling Area (Ha.)	Proposed	Actual	Percentage (%)	3	2	Backfilling proposal as per approved plan is 0 Ha. but we have mentioned 1 ha. as system is not accepting 0 Ha as proposal. PMCP.pdf
	1.0000	0.9580	95.8000			
2) Water Reservoir, ground water recharge, and pisciculture, if applicable Area under water reservoir Not Applicable	Proposed	Actual	Percentage (%)	0	0	
	0.0000	0.0000	0.0000			
2(a) Efforts towards Rainwater (RW) Harvesting, Groundwater (GW) Recharging and artificial recharge measures for groundwater recharge Details	GW Proposed	GW Actual	Reason	3	2	
	0.0000	0.0000	Rain Water harvesting with no GW recharging			
	Harvesting Proposed	Harvesting Actual				
	21750.0000	21750.0000				

Plantation over backfilled area	<table><tr><th>Proposal (in sq. meter)</th><th>Actual (in sq. meter)</th><th>Achivement (%)</th></tr><tr><td>23450.0000</td><td>32510.0000</td><td>138.6354</td></tr></table>	Proposal (in sq. meter)	Actual (in sq. meter)	Achivement (%)	23450.0000	32510.0000	138.6354	3	4	
Proposal (in sq. meter)	Actual (in sq. meter)	Achivement (%)								
23450.0000	32510.0000	138.6354								
Plantation over dump area	<table><tr><td>10000.0000</td><td>1.0000</td><td>0.0100</td></tr></table>	10000.0000	1.0000	0.0100	5	0	Plantation could not be done over proposed dump (extension of Dump D#1) as dump not extended due to non availability of Forest Clearance over the proposed area.			
10000.0000	1.0000	0.0100								
Plantation over virgin area(Green belt development) Not Applicable	<table><tr><td>0.0000</td><td>0.0000</td><td>0.0000</td></tr></table>	0.0000	0.0000	0.0000	0	0				
0.0000	0.0000	0.0000								
Agroforestory Area Not Applicable		0	0							
3 (a) Efforts for faster restoration Details * (Soil- moisture conservation, fencing of area, drip irrigation, etc.)	Yes	2	2	1. Use of Hydrogel at the plantation site to reduce the water demand by plants. 2. Practice of mulching for ensuring loss of moisture and water.						

3 (b) Treatment of problematic soils, if applicable Details * (Treatment with soil amendments, manuring, bio fertilizers etc.)	Yes	2	2	1.Periodic Soil Analysis followed by identification of nutrient deficiency 2.Soil Amendment with fermented organic solution i.e Panchagavya made from the extracts of Cow Urine, Cow milk, Ghee, Coconut water, ripen banana 3.Addition of leaf mould to enrich nitrogenous bases 4.Amendment of Soil by addition of bone meal, humic acid treatment and application of organic fertilise					
4) Creation of Eco tourism/ recreational facility if applicable Area reshaped by pitching & recontouring Not Applicable	<table><tr><td>Proposed</td><td>Actual</td></tr><tr><td>0.0000</td><td>0.0000</td></tr></table>	Proposed	Actual	0.0000	0.0000	0	0		
Proposed	Actual								
0.0000	0.0000								

5) Dump area stabilisation and development, if applicable Area covered by Geo textiles or similar techniques in Ha Not Applicable	Proposed	Actual	0	0	
	0.0000	0.0000			
Summary of Points obtained in Module-II					
			Module-I Applicable Maximum Points(3)		Module-I Points Scored(iii)
			18		12

Module III : Addressing Social Impacts Of R&R Requirements, Community Engagement & Welfare Programmes

2.3.1 : Rehabilitation & Resettlement for Project Affected People

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
No. of Project Affected People (PAP) as per approved EIA-EMP / SIA-SMP/ R&R , if applicable	0.0000			
% of PAP for whom alternate arrangements made for sustained livelihood (Indirect employment/Created source of income other than direct employment) Not Applicable	0.0000	3	0	
% of project affected families given employment (Direct Employment) Not Applicable	0.0000	0	0	
% of project affected families who have been skilled by the lessee and absorbed (% of total employment given to affected families by imparting training for becoming electrician, mechanic, tailoring) Not Applicable	0.0000	0	0	
*PAP - Indicates the persons who have been displaced due to land acquisition for mining lease.				

2.3.2 : Grievance Redressal

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Whether a public grievance redressal mechanism is in place	Yes	1	1	

Name, Address and Phone no./Email of Committee Members responsible displayed publicly	Yes	1	1	
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2.3.3 Stakeholder Participation

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Participation of stakeholders, host communities and community groups in various activities of the companies such as Environment Management, CSR activities and Capacity expansion plans	Yes	3	3	

2.3.4 Support for Drinking Water & Agriculture

Particulars	Details (To be filled up by Lessee)		No. of Beneficiaries	Applicable Max Points	Points scored	Remarks
Water storage tanks, drinking water supply facility & irrigation support to agriculture	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)	2166	3	3	
	181.7000 1. Repair of Tube well & Bore well 2. Installation of solar powered drinking project 3. Construction of RCC Ring Well & Renovation of Stream 4. Water Harvesting structures (ponds)- 44 nos	181.8100 1. Repair of Tube well & Bore well 2. Installation of solar powered drinking project 3. Construction of RCC Ring Well & Renovation of Stream 4. Water Harvesting structures (ponds) - 44 nos.				

2.3.5 Support to Health & Medical Services

Welfare and socio-economic development programs for local communities	Details of Expenditure & Work done during Reporting Year	No. of Beneficiaries	Applicable Max Points	Points scored	Remarks				
Preventive measures for mitigation of mine related health problems	<table><tr><th>Proposed Exp(in Lakhs)</th><th>Actual Exp(in Lakhs)</th></tr><tr><td>12.0000 1. Mobile Medical Units and ambulances 2. Waiver for free treatment at Tata Steel Hospital, Joda 3. Support for Nutrition Garden</td><td>12.0200 1. Mobile Medical Units and ambulances for periphery villages. 2. Waiver for free treatment at Tata Steel Hospital, Joda, for peripheral villages. 3. Support for Nutrition Garden at Palsa Ka, Nambira, Jamunaposhi & Jagannathpur</td></tr></table>	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)	12.0000 1. Mobile Medical Units and ambulances 2. Waiver for free treatment at Tata Steel Hospital, Joda 3. Support for Nutrition Garden	12.0200 1. Mobile Medical Units and ambulances for periphery villages. 2. Waiver for free treatment at Tata Steel Hospital, Joda, for peripheral villages. 3. Support for Nutrition Garden at Palsa Ka, Nambira, Jamunaposhi & Jagannathpur	3129	3	3	
Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)								
12.0000 1. Mobile Medical Units and ambulances 2. Waiver for free treatment at Tata Steel Hospital, Joda 3. Support for Nutrition Garden	12.0200 1. Mobile Medical Units and ambulances for periphery villages. 2. Waiver for free treatment at Tata Steel Hospital, Joda, for peripheral villages. 3. Support for Nutrition Garden at Palsa Ka, Nambira, Jamunaposhi & Jagannathpur								
Promotion of Hygiene and Sanitation, public health initiatives	<table><tr><th>Proposed Exp(in Lakhs)</th><th>Actual Exp(in Lakhs)</th></tr><tr><td>0.9000 1. Mosquito control by fogging and sparayiny at nearby villages 2. Awareness Program of Swachhata Pakhwada</td><td>0.9000 1. Mosquito control by fogging and sparayiny at Palsa Ka, Nambira, Uchaballi & Jagannathpur 2. Awareness Program of Swachhata Pakhwada at mine and peripheral villages.</td></tr></table>	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)	0.9000 1. Mosquito control by fogging and sparayiny at nearby villages 2. Awareness Program of Swachhata Pakhwada	0.9000 1. Mosquito control by fogging and sparayiny at Palsa Ka, Nambira, Uchaballi & Jagannathpur 2. Awareness Program of Swachhata Pakhwada at mine and peripheral villages.	3280	3	3	
Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)								
0.9000 1. Mosquito control by fogging and sparayiny at nearby villages 2. Awareness Program of Swachhata Pakhwada	0.9000 1. Mosquito control by fogging and sparayiny at Palsa Ka, Nambira, Uchaballi & Jagannathpur 2. Awareness Program of Swachhata Pakhwada at mine and peripheral villages.								

2.3.6 Support to Skill Development & Education

Welfare and socio-economic development programs for local communities	Details of Expenditure & Work done during Reporting Year	No. of Beneficiaries	Applicable Max Points	Points scored	Remarks				
Skill development & Vocational Training programmes for local communities	<table><tr><th>Proposed Exp(in Lakhs)</th><th>Actual Exp(in Lakhs)</th></tr><tr><td>2.0000 1.Skill Development Programs 2.Disability Program at Palsa Gram Panchayat</td><td>2.0300 1.Skill Development Programmes for Palsa Ka, & Kundaposhi villagers. 2.Disability Program at Palsa Gram Panchayat</td></tr></table>	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)	2.0000 1.Skill Development Programs 2.Disability Program at Palsa Gram Panchayat	2.0300 1.Skill Development Programmes for Palsa Ka, & Kundaposhi villagers. 2.Disability Program at Palsa Gram Panchayat	32	3	3	
Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)								
2.0000 1.Skill Development Programs 2.Disability Program at Palsa Gram Panchayat	2.0300 1.Skill Development Programmes for Palsa Ka, & Kundaposhi villagers. 2.Disability Program at Palsa Gram Panchayat								

Promotion of Literacy & Education	Proposed Exp(in Lakhs)		Actual Exp(in Lakhs)	580	3	3
	32.4800					
	1. Grant-in-aid to schools at Bamebari Tata Aided UP & ME School 2. Fellowship program at nearby villages 3. Spoken English & Soft Skill program 4. Support for Schools/ Institutions (educational infrastructure) such as Renovation, Construction of approach step & Guard wall					
	32.6800		1. Grant-in-aid to schools at Bamebari Tata Aided UP & ME School 2. Fellowship program at Palsa, Basantapur, Nayagrah, Uchaballi & Beldarh 3. Spoken English & Soft Skill programme at peripheral villages 4. Support for Schools/Institutions (educational infrastructure)- such as Renovation of Jhadeswar High School, Bhandaridihia & Construction of approach step & Guard wall at Bamebari School			

2.3.7 Social & Livelihood Support

Welfare and socio-economic development programs for local communities	Details of Expenditure & Work done during Reporting Year	No. of Beneficiaries	Applicable Max Points	Points scored	Remarks

Support to social, cultural, recreational activities	<table><tr><th>Proposed Exp(in Lakhs)</th><th>Actual Exp(in Lakhs)</th></tr><tr><td>4.2500 1.Organising sports tournaments 2. Organising outdoor and leadership camps 3. Program of youth Empowerment</td><td>4.3000 1.Organising sports tournaments at Palsa Ka 2.Organising outdoor and leadership camps at Palsa Ka, Kundaposhi, Nayagarh 3.Program of youth Empowerment at Palsa Ka & Nayagarh</td></tr></table>	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)	4.2500 1.Organising sports tournaments 2. Organising outdoor and leadership camps 3. Program of youth Empowerment	4.3000 1.Organising sports tournaments at Palsa Ka 2.Organising outdoor and leadership camps at Palsa Ka, Kundaposhi, Nayagarh 3.Program of youth Empowerment at Palsa Ka & Nayagarh	255	2	2	
Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)								
4.2500 1.Organising sports tournaments 2. Organising outdoor and leadership camps 3. Program of youth Empowerment	4.3000 1.Organising sports tournaments at Palsa Ka 2.Organising outdoor and leadership camps at Palsa Ka, Kundaposhi, Nayagarh 3.Program of youth Empowerment at Palsa Ka & Nayagarh								
Livelihood & Socio-Economic standard improvement support	<table><tr><th>Proposed Exp(in Lakhs)</th><th>Actual Exp(in Lakhs)</th></tr><tr><td>19.6500 1. Livelihood Agri allied, Mushroom, Poultry 2. Capacity Building of Farmers Institutions at nearby villages 3. Promotion of second crops 4. Promote horticulture in wastelands and dry land 5. Women Empowerment Programs 6. Business Development of SHGs</td><td>19.7600 1.Livelihood Agri allied, Mushroom, Poultry at Palsa Ka, Jamunaposhi & Jagannathpur 2. Capacity Building of Farmers Institutions at Palsa Ka,Jamunaposhi,& Jagannathpur & Nayagarh 3. Promote second crops at peripheral villages 4.Promote horticulture in wastelands and dry land crops Palsa Ka 5. Women Empowerment Programme at peripheral village 6. Business Development of SHGs at peripheral villages</td></tr></table>	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)	19.6500 1. Livelihood Agri allied, Mushroom, Poultry 2. Capacity Building of Farmers Institutions at nearby villages 3. Promotion of second crops 4. Promote horticulture in wastelands and dry land 5. Women Empowerment Programs 6. Business Development of SHGs	19.7600 1.Livelihood Agri allied, Mushroom, Poultry at Palsa Ka, Jamunaposhi & Jagannathpur 2. Capacity Building of Farmers Institutions at Palsa Ka,Jamunaposhi,& Jagannathpur & Nayagarh 3. Promote second crops at peripheral villages 4.Promote horticulture in wastelands and dry land crops Palsa Ka 5. Women Empowerment Programme at peripheral village 6. Business Development of SHGs at peripheral villages	771	3	3	
Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)								
19.6500 1. Livelihood Agri allied, Mushroom, Poultry 2. Capacity Building of Farmers Institutions at nearby villages 3. Promotion of second crops 4. Promote horticulture in wastelands and dry land 5. Women Empowerment Programs 6. Business Development of SHGs	19.7600 1.Livelihood Agri allied, Mushroom, Poultry at Palsa Ka, Jamunaposhi & Jagannathpur 2. Capacity Building of Farmers Institutions at Palsa Ka,Jamunaposhi,& Jagannathpur & Nayagarh 3. Promote second crops at peripheral villages 4.Promote horticulture in wastelands and dry land crops Palsa Ka 5. Women Empowerment Programme at peripheral village 6. Business Development of SHGs at peripheral villages								

2.3.8 Support to Transportation Services & Infrastructure

Welfare and socio-economic development programs for local communities	Details of Expenditure & Work done during Reporting Year		No. of Beneficiaries	Applicable Max Points	Points scored	Remarks
	Proposed Exp(in Lakhs)	Actual Exp(in Lakhs)				
Improvement of Road connectivity and public transport and other infrastructure facilities	53.7700 1. Solar Light infrastructure- Repairing & New installed 2. Construction of Boundary wall & approach Step of Anganwadi Centres 3. Renovation of Club Buildings 4. Construction of Changing Room & repairing of Bathing Ghat 5. Construction of Paver Pathway 6. Installation of Solar Home Lighting System 7. Installation of Solar High Mast Light	53.9500 1. Solar Light - Repairing & New installed Palsa Ka, Uchabali & Bhandaridih 2. Construction of Boundary wall & approach Step of Anganwadi Centres at Bamebari, Palsa Ka 3. Renovation of Club Building at Charakmara & Konaposhi 4. Construction of Changing Room & repairing of Bathing Ghat at Rajen Basti, Palsa Ka. 5. Construction of 850 mt Paver Pathway at Nambira Munda Shahi 6. Installation of Solar Home Lighting System at peripheral village 7. Installation of Solar High Mast at Konaposhi	4506	2	2	CSR Budget & Expenditure 2023-24.pdf

2.3.9 Sourcing of Manpower Amongst Locals (from the State) in The Mines

Particulars	Details	Applicable	Points	Remarks
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	(To be filled up by Lessee)	Max Points	scored				
Total Local Manpower (% of total manpower)	<table><tr><td>Total local man power</td><td>Total man power</td></tr><tr><td>418.0000</td><td>459.0000</td></tr></table>	Total local man power	Total man power	418.0000	459.0000	3	3
Total local man power	Total man power						
418.0000	459.0000						
Skilled local manpower (% of total local manpower)	<table><tr><td>Total local man power</td><td>Total man power</td></tr><tr><td>166.0000</td><td>186.0000</td></tr></table>	Total local man power	Total man power	166.0000	186.0000	3	3
Total local man power	Total man power						
166.0000	186.0000						
Unskilled local manpower (% of total local manpower)	<table><tr><td>Total local man power</td><td>Total man power</td></tr><tr><td>252.0000</td><td>273.0000</td></tr></table>	Total local man power	Total man power	252.0000	273.0000	3	3
Total local man power	Total man power						
252.0000	273.0000						
Working in LWE affected districts (as per NITI Aayog list)	No	2	0				
Working in Schedule V / Tribal area	Yes	3	3				

2.3.10 Swatchata Programs: Creating/providing sanitation and healthy condition in and around the mine area

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Voluntary Adoption of Village for Health, Sanitation, Literacy (including Computer Literacy) & Infrastructure Support Programs:	All Four Identified Programs are conducted/ Support provided to the local community.	10	10	
General Cleanliness of mines area (Mine working faces, dump areas, roads)	Excellent	3	3	
Cleanliness of workshop/Mines Office area	Excellent	3	3	

Garbage collection and appropriate disposal	Yes	3	3	
Providing drinking water for mining workers	Yes	2	2	
Provision for greenage recreational facility	Yes	2	2	
Awareness program among Mine workers for Swachhata	Yes	2	2	Swachhata Pakhowda BIMM-TSL- Nov2023.pdf
Summary of Points obtained in Module-III		Module-I Applicable Maximum Points(2)	Module-I Points Scored(ii)	
66		64		

Module IV : Assurance And Reporting

2.4.1 : Lease Level Reporting - Disclosures and Assurances

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
Availability of information on SDF and related Reports on Company's/Mine website/ Public Display at mine site	Yes	3	3	
Display of ambient air quality level on website and at prominent locations such as premises gate, mine-office, etc.	Yes	2	2	
Internal auditing for information submitted.	Yes	3	3	

2.4.2 : Adoption of Related International Standards

Particulars	Details (To be filled up by Lessee)	Applicable Max Points	Points scored	Remarks
QMS (ISO_9001)	Yes	3	3	ISO_9001-2015.pdf
EMS (ISO-14001)	Yes	3	3	ISO_14001-2015.pdf
OHSAS (ISO-18001) or ISO 45001	Yes	3	3	ISO_45001-2018.pdf

Swatchata Report	Yes	2	2	Swachhata Pa khowda BIMM -TSL- Nov2023.pdf
Summary of Points obtained in Module-IV				Module-I Points Scored(iv)
				19
				19

● OVERALL PERFORMANCE & STAR RATING

Module	Sum of Applicable Maximum Points in all Modules (a)	Applicants Ratings	
		Sum of Points Scored in all Modules (b)	Percentage (b/a)*100
Subtotal Module I	120	94	78.33%
Subtotal Module II	18	12	66.67%
Subtotal Module III	66	64	96.97%
Subtotal Module IV	19	19	100.00%
Overall	223	189	84.75%
% Obtained	84.75 %		
☆ Star Rating	★★★★☆ 4 Star		

Criteria for Star Rating :

Percentage obtained	Criteria
=> 90 %	5 Star
=> 80 to < 90 %	4 Star
=> 60 to < 80 %	3 Star
=> 50 to < 60 %	2 Star
=> 25 to < 50 %	1 Star
< 25	No Rating

Certificate

I Tata Steel Limited, S/o ----- Designation Mine Owner am authorized to fill and submit this document on behalf of lessee. It is further certified that all the above furnished information is true to the best of my knowledge and based on records.

Date: 27.06.2024

Place: Bamebari

(Name)



Lessee/Authorized person by lessee
(CHIRANJAY KUMAR)

Manager
Bamebari Iron & Mn. Mines