



TSJ/EMD/C-38/018/24

29 May 2024

Deputy Director General of Forests (C)

Ministry of Environment, Forest, and Climate Change
Integrated Regional Office, 2nd Floor, Headquarter- Jharkhand State Housing Board
Harmu Chowk, Ranchi, Jharkhand – 834002, Ranchi

Sub.: Submission of Half Yearly (October'2023 to March'2024) Environment Clearances Compliance Reports (ECCR) for Cold Rolling Mill Complex (CRMC) of Tata Steel Limited at Bara, Golmuri-cum-Jugsalai, Jamshedpur, District- East Singhbhum, Jharkhand

Reference:

1. EC of CRMC for 0.3 MTPA vide MoEF&CC letter no. F.No. J-11011/199/2007-IA II (I) dated: 07.08.2007
2. EC of CRMC for 0.8 MTPA vide MoEF&CC letter no. F.No. J-11011/22/2013-IA II (I) dated: 15.09.2015

Dear Sir,

This has reference to the captioned subject and cited references. We wish to inform you that we have uploaded the Half Yearly ECCR for the period from October'2023 to March'2024 on MoEF&CC portal <http://environmentclearance.nic.in/>. Confirmation of the same is attached.

We are herewith submitting the softcopy of the same for your ready reference. You are requested to kindly acknowledge the same and place in your records.

Thanking you

Yours faithfully,
For Tata Steel Limited

Utsav Kashyap
Head Environment Clearance & Compliance (TSL)

Enclosures as above

Copy to:

1. Zonal Officer, Central Pollution Control Board, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107
2. Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building, HEC Campus, Dhurwa, Ranchi – 834004
3. Regional Officer, Jharkhand State Pollution Control Board, Jamshedpur

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

Ph: 8092087043 (M) e-mail: utsav.kashyap@tatasteel.com

Registered Office: Bombay House, 24 Homi Mody Street, Mumbai 400001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH 1907PLC000260 Website www.tatasteel.com

Your (Environment Clearance) application has been Submitted with following details	
Proposal No	IA/JH/IND/21196/2007
Compliance ID	27610493
Compliance Number(For Tracking)	EC/M/COMPLIANCE/27610493/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	30-05-2024
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	JHARKHAND
IRO Office Address	Integrated Regional Offices, Ranchi
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, JHARKHAND with Notification to Project Proponent.	

Your (Environment Clearance) application has been Submitted with following details	
Proposal No	IA/JH/IND/3455/2012
Compliance ID	27603916
Compliance Number(For Tracking)	EC/M/COMPLIANCE/27603916/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	30-05-2024
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	JHARKHAND
IRO Office Address	Integrated Regional Offices, Ranchi
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, JHARKHAND with Notification to Project Proponent.	

ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT

October 2023 to March 2024

Cold Rolling Mill Complex
(CRMC), Jamshedpur

Six Monthly Compliance Status report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA)

ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA) at Bara, Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no J-11011/199/2007-IA.II (I) dated August 7, 2007

SN	Compliance Conditions	Compliance Status
Specific Conditions:		
i	Fume extraction system shall be provided to extract acid vapors or fumes from pickling line, Pickling bath shall be covered with tight granite covers. Ventilation chamber shall be provided in Cold Rolling Mill (CRM) plant to control LPG emissions.	<p>The following equipment are provided to control Air Pollution:</p> <ol style="list-style-type: none"> 1. Fume extraction system including scrubber in pickling line. 2. Bag filter in shot blasting machine. 3. Roof-top ventilation system. <p>This system is used to collect, scrub, clean and vent fumes and vapors from the wash tank, pickling tanks, rinse tank, storage, and re-circulating tanks. Pickling baths are covered with tight granite covers. There is no LPG emission inside plant premises.</p>
ii	Total water requirement from M/s JUSCO is about 1712 m ³ /day as per the present available data. No ground water shall be used. Wastewater treatment plant for treatment of wastewater shall be provided using oil separation, acid neutralization and clarification. The treated effluent shall be used for green belt development. The plant as indicated shall adopt zero discharge concepts in disposing the wastewater. Domestic effluent shall be treated in Sewage Treatment Plant.	<p>No groundwater is used. Wastewater treatment plant for the treatment of oily and acidic waste have been installed and are in operation The excess treated effluent is being stored at the pond inside Bara Complex. The treated water is being used for plantation/dust suppression and other low end uses The plant is ZED unit. In last FY- service water and drinking water line overgrounding activity was carried out which resulted in reduction of specific water consumption.</p> <p>Domestic wastewater generated inside plant is being treated in STP having capacity of 25 m³/day.</p>
iii	Iron oxide from Acid Regeneration Plant (ARP) shall be sold to authorized vendors for further use. Non-hazardous solid waste from neutralization process in CRM shall also be properly disposed of. Oily sludge shall be sold to authorized re-cyclers / re-processors for proper disposal through incineration.	<p>Proper handling, storage, utilization, and disposal of all the solid waste generated are being ensured.</p> <ul style="list-style-type: none"> • Iron oxide is recycled by paint industry. • Oily scum and sludge are disposed by authorized agency (Adityapur waste management private limited). • Solid waste generated at CRM Bara is being 100% utilized through internal and external applications.
iv	Green belt shall be developed in 2.5 ha (33%) out of the total of 7.4 ha within and around the plant premises as per the CPCB guidelines in consultation with DFO.	<p>Green belt at CRM Bara complex has been developed as per CPCB guidelines.</p> <ul style="list-style-type: none"> • Approx. 3.5 Ha area in and around plant is under plantation which is more than 33% of the plant area. • We have planted 13235 no. of samplings in the above area till date. • We have developed approx. 5m wide area of plantation around the plant as per CPCB guidelines. • Density of plantation > 3000 plants/Ha which is more than CPCB guidelines.

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA) at Bara, Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no J-11011/199/2007-IA.II (I) dated August 7, 2007

SN	Compliance Conditions	Compliance Status														
Specific Conditions:																
v	Permission from the State Government shall be obtained regarding impact of the proposed project on the Dalma Reserve Forest.	It has been stated that the project has obtained necessary permission from the State Forest Department and approval received vide letter no. 1204 dated 17-04-2008 & letter no 2614 dated 02-09-2014.														
vi	As mentioned in EIA / EMP, 10.20 Crores and 0.21 Crores earmarked towards the capital cost and recurring cost per annum respectively for Environmental & Pollution Control Measures shall be judicially utilized to implement the conditions stipulated by MoEF as well as the State Government. The funds shall not be diverted for any other purpose.	<div>For environment protection, 29.2 Cr rupees spent as capital cost. Details are as below:</div> <table><tr><th>Details</th><th>Capital Cost</th></tr><tr><td>Pollution control measures (WWTP, ARP, fume extraction systems, etc.</td><td>12</td></tr><tr><td>Provision of online environment monitoring equipment and display</td><td>2.26</td></tr><tr><td>Rejuvenation of water bodies</td><td>6.94</td></tr><tr><td>ARP environmental upgradation</td><td>7.49</td></tr><tr><td>PL rinse scrubber</td><td>0.510</td></tr><tr><td>Total capital cost (Cr.)</td><td>29.20</td></tr></table> <div>Recurring cost for upkeep the pollution control facilities till FY24 is 96.2 crores.</div>	Details	Capital Cost	Pollution control measures (WWTP, ARP, fume extraction systems, etc.	12	Provision of online environment monitoring equipment and display	2.26	Rejuvenation of water bodies	6.94	ARP environmental upgradation	7.49	PL rinse scrubber	0.510	Total capital cost (Cr.)	29.20
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Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA) at Bara, Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no J-11011/199/2007-IA.II (I) dated August 7, 2007

SN	Compliance Conditions	Compliance Status
General Conditions:		
i.	The project authorities shall strictly adhere to the stipulations made by Jharkhand State Pollution Control Board (Jharkhand SPCB) and the State Government.	We are abiding by all the compliance conditions made by JSPCB and State Government of Jharkhand.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of MoEF.	No further expansion or modifications beyond the existing capacity of 0.8 MTPA in the plant will be carried out without prior approval from MoEF&CC.
iii.	The gaseous emissions from various process units shall conform to the load / mass-based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The state board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Standards issued by the Ministry vide G.S.R. 414(E) dated 30 th May 2008 is not applicable for CRM Complex, Bara. Interlocking facilities has been provided with pollution control equipment at acid regeneration plant, pickling line, reversing mill and Shot Blasting machine to stop the process.
iv.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission should be regularly submitted to this ministry including its Regional Office at Bhubaneswar, SPCB and CPCB once in six months.	Ambient air quality is being monitored for the following four locations in the plant premises. 1. Near Mill dispatch shutter 2. Near Pickling dispatch shutter 3. Near Roll Shop shutter 4. Near HR Receiving Shutter All parameters as per NAAQS, 2009 standards are being monitored and monitoring reports are being submitted to JSPCB on monthly basis and CPCB and MoEF&CC on six monthly basic. Monitoring reports for all relevant parameters from October 2023 to March 2024 are attached in Annexure-1 .

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA) at Bara, Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no J-11011/199/2007-IA.II (I) dated August 7, 2007

SN	Compliance Conditions	Compliance Status
General Conditions:		
V	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Further, specific measures like water sprinkling shall be carried out and fugitive emissions shall be controlled, regularly monitored and records maintained.	<p>The following equipment are provided to control Air Pollution:</p> <ol style="list-style-type: none"> 1. Fume extraction system including scrubber in pickling line. 2. Bag filter in shot blasting machine. 3. Roof-top ventilation system. 4. Water sprinkling and mechanized sweeping machine. <p>Hot Rolled Coils from Main Steel Works are used as raw material in the manufacturing process. As Ore and Minerals are not being handled inside plant premises, there is no generation of secondary fugitive dust emission.</p> <p>However, fugitive dust emission monitoring is being carried out on regular basis, records are maintained and submitted to JSPCB and MoEF&CC.</p>
vi.	Secondary fugitive emissions shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	Hot Rolled Coils from Tata Steel Jamshedpur and Kalinganagar are used as raw material in the manufacturing process. As Ore and Minerals are not being handled inside plant premises, there is no generation of secondary fugitive dust emission. Therefore, Standards issued by the Ministry vide G.S.R. 414(E) dated 30 th May 2008 are not applicable for CRM Complex, Bara.
vii.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	<p>Effluent treatment plant for the treatment of oily and acidic waste have been installed and this is in operation. The excess treated effluent is being stored at the pond inside Bara Complex. The treated water is being used for plantation/dust suppression and other low end uses.</p> <p>All applicable effluent parameters are being monitored and found within prescribed standards. Monitoring reports are being submitted to JSPCB on monthly basis and CPCB and MoEF&CC on six monthly basis.</p>
viii.	The Company shall develop surface as well as ground water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	We have rejuvenated an abandoned ash pond inside CRM Bara Complex. The area comprises of two large and three small ponds and serves the purpose of rainwater harvesting. The pond capacity is 11,500 m ³ in an area of 1.6 Acres. Green Belt has been developed around the pond in an area of 0.4 acres with native species in the surrounding. Photograph attached Annexure-2 .
ix.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on	<p>High noise generating equipment has been provided with acoustic enclosures and silencer. However, closed cabins are provided for workers wherever required and people are encouraged to use ear plugs or earmuffs.</p> <p>Monitoring reports for noise from Oct 2023 to</p>

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA) at Bara, Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no J-11011/199/2007-IA.II (I) dated August 7, 2007

SN	Compliance Conditions	Compliance Status																																																																																
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	all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	March 2024 are attached in Annexure-1 .																																																																																
x	Recommendations made in the Corporate Responsibility for Environment Conservation (CREP) issued for the steel plant shall be implemented.	No specific recommendations are there under CREP for Cold rolling mills.																																																																																
xi.	Occupational Health Surveillance of the workers shall be done on the regular basis and records maintained as per the Factories Act.	Regular health surveillance of all the workers is being conducted half yearly and annually.																																																																																
xii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report.	Environment protection measures are being implemented according to measures and safeguard recommended in the EIA/ EMP report.																																																																																
xiii.	The Company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	<div>Community development programs in surrounding areas are being implemented. Year wise expenditure for implementation of enterprise social commitment for in and around Jamshedpur are given below (Rupees in crores):</div> <table><tr><th>Interventions</th><th>FY18</th><th>FY19</th><th>FY20</th><th>FY21</th><th>FY22</th><th>FY23</th><th>FY24</th></tr><tr><td>Health</td><td>2.3</td><td>66.8</td><td>1.5</td><td>0.5</td><td>0.6</td><td>2.2</td><td>2.2</td></tr><tr><td>Drinking Water</td><td>0.0</td><td>0.1</td><td>0.1</td><td>0.0</td><td>0.0</td><td>0.1</td><td>0.1</td></tr><tr><td>Education</td><td>0.9</td><td>1.5</td><td>1.8</td><td>1.3</td><td>3.0</td><td>5.0</td><td>1.77</td></tr><tr><td>Livelihood-Skill Development</td><td>1.6</td><td>1.6</td><td>1.6</td><td>1.5</td><td>1.2</td><td>3.9</td><td>1.14</td></tr><tr><td>Sports</td><td>4.4</td><td>6.7</td><td>4.7</td><td>13.3</td><td>12.3</td><td>13.2</td><td>9.16</td></tr><tr><td>Rural Infrastructure</td><td>2.1</td><td>-</td><td>0.0</td><td>1.4</td><td>3.1</td><td>5.3</td><td>0.02</td></tr><tr><td>Environment</td><td>2.1</td><td>2.0</td><td>2.7</td><td>2.8</td><td>4.0</td><td>4.3</td><td>4.00</td></tr><tr><td>Ethnicity</td><td>2.7</td><td>4.5</td><td>5.3</td><td>1.7</td><td>4.8</td><td>13.3</td><td>2.23</td></tr><tr><td>Total</td><td>16.1</td><td>83.1</td><td>17.7</td><td>22.4</td><td>29.02</td><td>47.2</td><td>20.62</td></tr></table>	Interventions	FY18	FY19	FY20	FY21	FY22	FY23	FY24	Health	2.3	66.8	1.5	0.5	0.6	2.2	2.2	Drinking Water	0.0	0.1	0.1	0.0	0.0	0.1	0.1	Education	0.9	1.5	1.8	1.3	3.0	5.0	1.77	Livelihood-Skill Development	1.6	1.6	1.6	1.5	1.2	3.9	1.14	Sports	4.4	6.7	4.7	13.3	12.3	13.2	9.16	Rural Infrastructure	2.1	-	0.0	1.4	3.1	5.3	0.02	Environment	2.1	2.0	2.7	2.8	4.0	4.3	4.00	Ethnicity	2.7	4.5	5.3	1.7	4.8	13.3	2.23	Total	16.1	83.1	17.7	22.4	29.02	47.2	20.62
Interventions	FY18	FY19	FY20	FY21	FY22	FY23	FY24																																																																											
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xiv.	The Regional Office at Bhubaneswar / CPCB / SPCB will monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	<div>The six-monthly compliance reports of all existing environment clearances granted by Ministry are being submitted to JSPCB’s regional office, Ministry’s Regional office, Zonal office CPCB Kolkata and JSPCB Ranchi regularly and being submitted online through the respective website. FY24 H1 compliance report submitted via TSJ/EMD/C-38/213/23 dated 28 Nov 2023. The six-monthly compliance reports along the monitored data is also uploaded in the website https://www.tatasteel.com/corporate/our-organisation/environment/environment-</div>																																																																																

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce Cold Rolled Coils (2,50,000 TPA) and Hot Rolled Pickled Coils (50,000 TPA) at Bara, Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no J-11011/199/2007-IA.II (I) dated August 7, 2007

SN	Compliance Conditions	Compliance Status
General Conditions:		
		compliance-reports/
xv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / Committee and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office.	Environment clearance notice had been advertised in two local newspapers viz. Chamakta Aina (Hindi) and Avenue Mail (English) on August 11, 2007 and communication to this effect was also sent to MoEF&CC vide our letter no. EMD/C38/2119/07 dated August 18, 2007
xvi.	Project authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure and final approval of the project by Board of Tata Steel was done in March 2006.

ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT

October 2023 to March 2024

Cold Rolling Mill Complex
(CRMC), Jamshedpur

Six Monthly Compliance Status report of Environmental
Clearance of Cold Rolling Mill Complex (CRMC) Capacity
Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II)

ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) Capacity Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II) Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no F.NO J-11011/22/2013-IA (II) I Dated on 15th Sept 2015

S.No	Compliance Conditions	Compliance Status												
Specific Conditions:														
i	The PP shall prepare a WL Conservation Plan in and around the project site drawn up in consultation with the PCCF (WL), Government of Jharkhand. Separate Funds shall be earmarked for the various activities identified and details of the expenditure made thereon shall be submitted as part of the Compliance Report to RO, Ranchi.	Wildlife Conservation Plan (WLCP) for Tata Steel works and CRM Complex Bara has been prepared in consultation with Principal Chief Conservator of Forests – Wildlife (PCCF-WL) GoJ which was approved by him on 13 November 2017. Further, Payment of levies as per w.r.t. approved Site Specific WLCP has been deposited into DFO Jamshedpur account vide challan no. 108 dated: 20.02.2023 attached as Annexure-3 .												
ii	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc., shall be provided to keep the emission levels below 50 mg/Nm ³ by installing energy efficient technology.	Online ambient air quality monitoring station has been provided inside CRM Complex Bara and Continuous stack monitoring facility has been provided in Boiler stack. The following equipment are provided to keep the emission levels below 50 mg/Nm ³ : 1. Fume extraction system including scrubber in pickling line. 2. Bag filter in shot blasting machine. 3. Roof-top ventilation system. 4. Water sprinkling and mechanized sweeping machine.												
iii	In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	The following equipment are provided to control Air Pollution: 1. Fume extraction system including scrubber in pickling line. 2. Bag filter in shot blasting machine. 3. Roof-top ventilation system. 4. Water sprinkling and mechanized sweeping machine. Hot Rolled Coils from Main Steel Works are used as raw material in the manufacturing process. As Ore and Minerals are not being handled inside plant premises, there is no generation of secondary fugitive dust emission.												
iv	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30 th May, 2008 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.	Standards issued by the Ministry vide G.S.R. 414(E) dated 30 May 2008 are not applicable for CRM Complex, Bara. It is environmental standard for Sponge iron plant.												
v	The water consumption shall not exceed as per the standard prescribed for the sponge iron plants and steel plants.	Water consumption is metered and recorded regularly & the same is within prescribed limit for Steel Plants and as mentioned in EC. <table><tr><th>Requireme nt</th><th>UoM</th><th>Standar d</th><th>FY'2 2</th><th>FY'23</th><th>FY24</th></tr><tr><td>Steel Plant</td><td>M³/ T</td><td>5</td><td>0.78</td><td>0.77</td><td>0.47</td></tr></table>	Requireme nt	UoM	Standar d	FY'2 2	FY'23	FY24	Steel Plant	M ³ / T	5	0.78	0.77	0.47
Requireme nt	UoM	Standar d	FY'2 2	FY'23	FY24									
Steel Plant	M ³ / T	5	0.78	0.77	0.47									

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) Capacity Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II) Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no F.NO J-11011/22/2013-IA (II) I Dated on 15th Sept 2015

S.No	Compliance Conditions	Compliance Status
Specific Conditions:		
vi	Efforts shall further be made to use maximum water from the rainwater harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources. Use of air-cooled condensers shall be explored and closed-circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly.	<ul style="list-style-type: none"> • 2 nos. of rainwater harvesting structures have been constructed having total capacity of 25 m³ to capture rainwater from rooftop and surface catchment area. The harvested rainwater is being used for low end applications. Closed circuit cooling system is deployed to reduce water consumption. • We have rejuvenated an abandoned ash pond inside CRM Bara Complex. The area comprises of two large and three small ponds and serves the purpose of rainwater harvesting. The pond capacity is 11,500 m³ in an area of 1.6 Acres. In last FY- service water and drinking water line overgrounding activity was carried out which resulted in reduction of specific water consumption.
vii	All the effluents shall be treated and used for dust suppression and green belt development. No effluent shall be discharged, and 'zero' discharge shall be adopted. Domestic wastewater will be treated in the Sewage Treatment Plant.	Effluent treatment plant for the treatment of oily and acidic waste have been installed and are in operation. The excess treated effluent is being stored at the pond inside Bara Complex. The treated water is being used for plantation/dust suppression and other low end uses. Domestic wastewater generated inside plant is being treated in STP having capacity of 25 m ³ /day.
viii	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured, and treated wastewater shall be meet the norms prescribed by the State Pollution Control Board or described under the E (P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Ranchi, SPCB and CPCB.	Effluent treatment plants for the treatment of oily and acidic waste have been installed and are in operation. The excess treated effluent is being stored at the pond inside Bara Complex. The treated water is being used for plantation/dust suppression and other low end uses. No groundwater is used. Ground water monitoring is conducted monthly and monitoring reports are being submitted regularly. Ground water and effluent monitoring report for Apr 2023 to March 2024 are attached in Annexure-1 .
ix	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Ranchi, SPCB and CPCB.	<p>Proper handling, storage, utilization, and disposal of all the solid waste generated is being ensured. Iron oxide is sold to paint industry and other recyclers; Oily scum and sludge is sold to authorized recyclers.</p> <p>Details of solid waste and manifest of hazardous waste is being regularly submitted to statutory authorities. Annual Return of Hazardous waste submitted for FY23 via TSJ/EMD/C-26/117/2023 dated 28 June 2023.</p>
x	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Solid waste generated at CRM Bara is being 100% utilized and sustained through internal and external applications.

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) Capacity Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II) Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no F.NO J-11011/22/2013-IA (II) I Dated on 15th Sept 2015

S.No	Compliance Conditions	Compliance Status																																																																																
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xi	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement, and brick manufactures for further utilization and Memorandum of Understanding shall be submitted to the Ministry’s Regional Office at Ranchi.	This condition is not applicable as per our manufacturing process does not involve Coal burning and Ash generation.																																																																																
xii	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry’s Regional Office at Ranchi, SPCB and CPCB within 3 months of issue of environment clearance letter.	Onsite emergency plan & Disaster Management Plan has been prepared and approved by Chief Inspector of Factories; Jharkhand vide letter no. 7/Plan 10215/2016-467 dated 14 March 2018 attached as Annexure-4 . The report has been submitted to JSPCB and MoEF&CC.																																																																																
xiii	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Solid waste generated at CRM Bara is being 100% utilized and sustained through internal and external applications.																																																																																
xiv	As proposed, green belt shall be developed in 33% of plant area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Green belt at CRM Bara complex has been developed as per CPCB guidelines. <ul style="list-style-type: none">• Approx. 3.5 Ha area in and around plant is under plantation which is more than 33% of the plant area.• We have planted 13235 no. of samplings in the above area till date.• We have developed approx. 5m wide area of plantation around the plant as per CPCB guidelines.• Density of plantation > 3000 plants/Ha which is more than CPCB guidelines.																																																																																
xv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	No specific recommendations are there under CREP for Cold rolling mills.																																																																																
xvi	At least 5% of the total cost of the expansion project shall be earmarked towards the Enterprise Social Commitment (ESC) based on locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry’s Regional Office at Ranchi.	Year wise expenditure for implementation of enterprise social commitment for in and around Jamshedpur are given below (in Rs crores): <table><tr><th>Interventions</th><th>FY18</th><th>FY19</th><th>FY20</th><th>FY21</th><th>FY22</th><th>FY23</th><th>FY24</th></tr><tr><td>Health</td><td>2.3</td><td>66.8</td><td>1.5</td><td>0.5</td><td>0.6</td><td>2.2</td><td>2.2</td></tr><tr><td>Drinking Water</td><td>0.0</td><td>0.1</td><td>0.1</td><td>0.0</td><td>0.0</td><td>0.1</td><td>0.1</td></tr><tr><td>Education</td><td>0.9</td><td>1.5</td><td>1.8</td><td>1.3</td><td>3.0</td><td>5.0</td><td>1.77</td></tr><tr><td>Livelihood- Skill Development</td><td>1.6</td><td>1.6</td><td>1.6</td><td>1.5</td><td>1.2</td><td>3.9</td><td>1.14</td></tr><tr><td>Sports</td><td>4.4</td><td>6.7</td><td>4.7</td><td>13.3</td><td>12.3</td><td>13.2</td><td>9.16</td></tr><tr><td>Rural Infrastructure</td><td>2.1</td><td>-</td><td>0.0</td><td>1.4</td><td>3.1</td><td>5.3</td><td>0.02</td></tr><tr><td>Environment</td><td>2.1</td><td>2.0</td><td>2.7</td><td>2.8</td><td>4.0</td><td>4.3</td><td>4.00</td></tr><tr><td>Ethnicity</td><td>2.7</td><td>4.5</td><td>5.3</td><td>1.7</td><td>4.8</td><td>13.3</td><td>2.23</td></tr><tr><td>Total</td><td>16.1</td><td>83.1</td><td>17.7</td><td>22.4</td><td>29.02</td><td>47.2</td><td>20.62</td></tr></table>	Interventions	FY18	FY19	FY20	FY21	FY22	FY23	FY24	Health	2.3	66.8	1.5	0.5	0.6	2.2	2.2	Drinking Water	0.0	0.1	0.1	0.0	0.0	0.1	0.1	Education	0.9	1.5	1.8	1.3	3.0	5.0	1.77	Livelihood- Skill Development	1.6	1.6	1.6	1.5	1.2	3.9	1.14	Sports	4.4	6.7	4.7	13.3	12.3	13.2	9.16	Rural Infrastructure	2.1	-	0.0	1.4	3.1	5.3	0.02	Environment	2.1	2.0	2.7	2.8	4.0	4.3	4.00	Ethnicity	2.7	4.5	5.3	1.7	4.8	13.3	2.23	Total	16.1	83.1	17.7	22.4	29.02	47.2	20.62
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S.No	Compliance Conditions	Compliance Status
Specific Conditions:		
xvii	All the commitments made to the public during the public Hearing / Public Consultation meeting shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Ranchi.	Public hearing commitment compliance implementation status is attached as Annexure-5 .
xviii	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The construction work has been completed. All the necessary infrastructure and facilities such as food, medical health care, toilets, safe drinking water, etc. had been provided to construction labour during the project work.

S.No	Compliance Conditions	Compliance Status
General Conditions:		
i	The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board and the State Government.	We are abiding by all the compliance conditions made by JSPCB and State Government of Jharkhand.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF&CC.	No further expansion or modifications beyond the existing capacity of 0.8 MTPA in the plant will be carried out without prior approval from MoEF&CC.
iii	At least four ambient air quality monitoring stations should be established in the downward directions well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Ranchi and the SPCB/CPCB once in six months.	Ambient air quality is being monitored for the following four locations in the plant premises. <ol style="list-style-type: none"> 1. Near Mill dispatch shutter 2. Near Pickling dispatch shutter 3. Near Roll Shop shutter 4. Near HR Receiving Shutter All parameters as per NAAQS, 2009 standards are being monitored and monitoring reports are being submitted to JSPCB on monthly basis and CPCB and MoEF&CC on six-monthly basis. Monitoring reports for all relevant parameters from Oct'2023 to March'2024 are attached in Annexure-1 .
iv	Industrial Wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Effluent treatment plants for the treatment of oily and acidic waste have been installed and are in operation. The excess treated effluent is being stored at the pond inside Bara Complex. The treated water is being used for dust suppression and other low end uses. All applicable effluent parameters are being monitored and found within prescribed standards. Monitoring reports are being submitted to JSPCB on monthly basis and CPCB and MoEF&CC on six -monthly basis.

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) Capacity Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II) Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no F.NO J-11011/22/2013-IA (II) I Dated on 15th Sept 2015

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v	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night-time).	High noise generating equipment has been provided with acoustic enclosures and silencer. However, closed cabins are provided for workers wherever required and people are encouraged to use ear plugs or earmuffs. Monitoring reports for noise from Oct’2023 to March’2024 are attached in Annexure-1 .																																																																																
vi	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Regular health surveillance of all the workers is being conducted half yearly and annually. Occupational health surveillance has been conducted for permanent workers.																																																																																
vii	The company shall develop rainwater harvesting structures to harvest the rain-water for utilization in the lean season besides recharging the ground water table.	We have rejuvenated an abandoned ash pond inside CRM Bara Complex. The area comprises of two large and three small ponds and serves the purpose of rainwater harvesting. The pond capacity is 11,500 m³ in an area of 1.6 Acres. Green Belt has been developed around the pond in an area of 0.4 acres with native species in the surrounding. Photograph attached as Annexure-2																																																																																
viii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Environment protection measures are being implemented according to measures and safeguard recommended in the EIA/ EMP report. Community development programs in surrounding areas are being implemented. Year wise expenditure for implementation of enterprise social commitment for in and around Jamshedpur are given below (in Rs crores): <table><tr><th>Interventions</th><th>FY18</th><th>FY19</th><th>FY20</th><th>FY21</th><th>FY22</th><th>FY23</th><th>FY24</th></tr><tr><td>Health</td><td>2.3</td><td>66.8</td><td>1.5</td><td>0.5</td><td>0.6</td><td>2.2</td><td>2.2</td></tr><tr><td>Drinking Water</td><td>0.0</td><td>0.1</td><td>0.1</td><td>0.0</td><td>0.0</td><td>0.1</td><td>0.1</td></tr><tr><td>Education</td><td>0.9</td><td>1.5</td><td>1.8</td><td>1.3</td><td>3.0</td><td>5.0</td><td>1.77</td></tr><tr><td>Livelihood-Skill Development</td><td>1.6</td><td>1.6</td><td>1.6</td><td>1.5</td><td>1.2</td><td>3.9</td><td>1.14</td></tr><tr><td>Sports</td><td>4.4</td><td>6.7</td><td>4.7</td><td>13.3</td><td>12.3</td><td>13.2</td><td>9.16</td></tr><tr><td>Rural Infrastructure</td><td>2.1</td><td>-</td><td>0.0</td><td>1.4</td><td>3.1</td><td>5.3</td><td>0.02</td></tr><tr><td>Environment</td><td>2.1</td><td>2.0</td><td>2.7</td><td>2.8</td><td>4.0</td><td>4.3</td><td>4.00</td></tr><tr><td>Ethnicity</td><td>2.7</td><td>4.5</td><td>5.3</td><td>1.7</td><td>4.8</td><td>13.3</td><td>2.23</td></tr><tr><td>Total</td><td>16.1</td><td>83.1</td><td>17.7</td><td>22.4</td><td>29.02</td><td>47.2</td><td>20.62</td></tr></table>	Interventions	FY18	FY19	FY20	FY21	FY22	FY23	FY24	Health	2.3	66.8	1.5	0.5	0.6	2.2	2.2	Drinking Water	0.0	0.1	0.1	0.0	0.0	0.1	0.1	Education	0.9	1.5	1.8	1.3	3.0	5.0	1.77	Livelihood-Skill Development	1.6	1.6	1.6	1.5	1.2	3.9	1.14	Sports	4.4	6.7	4.7	13.3	12.3	13.2	9.16	Rural Infrastructure	2.1	-	0.0	1.4	3.1	5.3	0.02	Environment	2.1	2.0	2.7	2.8	4.0	4.3	4.00	Ethnicity	2.7	4.5	5.3	1.7	4.8	13.3	2.23	Total	16.1	83.1	17.7	22.4	29.02	47.2	20.62
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S.No	Compliance Conditions	Compliance Status														
General Conditions:																
ix	Requisite funds shall be earmarked towards capital cost and recurring cost/ annum for environment pollution control measures to implement the conditions stipulated by the MoEF&CC as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Ranchi. The funds so provided shall not be diverted for any other purpose.	<div>For environment protection, 29.2 Cr rupees spent as capital cost. Details are as below:</div> <table><tr><th>Details</th><th>Capital Cost</th></tr><tr><td>Pollution control measures (WWTP, ARP, fume extraction systems, etc.</td><td>12</td></tr><tr><td>Provision of online environment monitoring equipment and display</td><td>2.26</td></tr><tr><td>Rejuvenation of water bodies</td><td>6.94</td></tr><tr><td>ARP environmental upgradation</td><td>7.49</td></tr><tr><td>PL rinse scrubber</td><td>0.510</td></tr><tr><td>Total capital cost(Cr.)</td><td>29.20</td></tr></table> <div>Recurring cost for upkeep the pollution control facilities till FY24 is 96.2 crores.</div>	Details	Capital Cost	Pollution control measures (WWTP, ARP, fume extraction systems, etc.	12	Provision of online environment monitoring equipment and display	2.26	Rejuvenation of water bodies	6.94	ARP environmental upgradation	7.49	PL rinse scrubber	0.510	Total capital cost(Cr.)	29.20
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x	A copy of clearance letter shall be sent by the proponent to concerned Panchnyat, Zila Parishad /Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company the proponent.	The copy of Clearance letter has been sent to District Commissioner, Block Development Officer and Jamshedpur Notified Area Committee vide our letter no. EMD/C-38/135,137,138/15 dated 16 September 2015, attached as Annexure-6														
xi	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF&CC at Ranchi. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emission) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<div>The six-monthly compliance reports of all existing environment clearances granted by Ministry are being submitted to JSPCB's regional office, Ministry's Regional office, Zonal office CPCB Kolkata and JSPCB Ranchi regularly and being submitted online through the respective website. The six-monthly compliance reports along the monitored data is also uploaded in the website https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/</div> <div>Monitoring data is being displayed near the main gate of the company in the public domain. Photograph attached as Annexure-7.</div>														
xii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of the Ministry at Ranchi / CPCB shall monitor the stipulated conditions.	<div>Six-monthly compliance reports of all existing environment clearances granted by Ministry along with environment monitoring reports are being submitted to JSPCB's regional office, Ministry's Regional office, Zonal office CPCB Kolkata and JSPCB Ranchi through email also the same is being uploaded on MoEF&CC website.</div> <div>FY24 H1 compliance report submitted via TSJ/EMD/C-38/213/23 dated 28 Nov 2023.</div>														

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) Capacity Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II) Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no F.NO J-11011/22/2013-IA (II) I Dated on 15th Sept 2015

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General Conditions:		
xiii	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional office of the MoEF&CC at Ranchi by e-mail.	<ul style="list-style-type: none"> The environmental statement for each financial year in Form-V is regularly being submitted to the Jharkhand State Pollution Control Board. Environment Statement for FY'23 has been submitted to JSPCB through hard and soft copies vide letter no. TSJ/EMD/C-23/176/23 dated 26 September 2023. The environmental statement has also been uploaded on the company's website: https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/
xiv	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the MoEF&CC at http://envor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Ranchi.	<p>Environment clearance information/notice had been advertised in two local newspaper dated September 20, 2015, in English Paper and Hindi Paper viz The Telegraph and Prabhat Khabar attached as Annexure-8.</p> <p>Copy of these have been sent to the Regional Office, MoEF&CC at Ranchi vide letter no. EMD/C38/136/15 dated 16 September 2015.</p>
xv	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure and final approval of the project by Board of Tata Steel was done in April 2013.
xvi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We are abiding for implementation of all the above compliance conditions. The progress report of above conditions will be submitted on regular basis.
xvii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	We will be in accordance with implementation of necessary additional conditions stipulated by the Ministry for compliance (if any).

Compliance Report of Environmental Clearance of Cold Rolling Mill Complex (CRMC) Capacity Expansion (0.3 MTPA to 0.8 MTPA) (Ph-II) Jamshedpur, District East Singhbhum, Jharkhand vide MoEF&CC Letter no F.NO J-11011/22/2013-IA (II) I Dated on 15th Sept 2015

S.No	Compliance Conditions	Compliance Status
General Conditions:		
xviii	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	We are abiding by all the applicable legal requirements and Statutory clearances.

MONITORING & ANALYSIS REPORT

October 2023 to March 2024

Cold Rolling Mill Complex (CRMC),
Jamshedpur

ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR



Annexure-1 ,
monitoring reports

TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
CRM BARA EFFLUENT QUALITY TEST REPORT SUMMARY FROM OCT-23 to MARCH-24

Sample Location	S. No.	Parameter	Unit	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Drain at Gate No-2	1	pH		7.76	7.82	7.78	7.49	7.8	7.78
	2	Total Suspended solids	mg/L	24	20	12	< 10	< 10	< 10
	3	Oil & Grease	mg/L	0.8	1.8	1.6	2.4	1.4	2
	4	Hexavalent Chromium, Cr+6	mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	5	Biological Oxygen Demand, BOD	mg/L	8	9	8	9	8	6
	6	Chemical Oxygen Demand, COD	mg/L	34	54	45	55	37	20

Note: Standards applicable as per Environment (Protection) (Third Amendment) Rules, 2012 issued in Gazette of India Notification vide No.: G. S. R. 277 (E) dated March 31, 2012.

UoM - Unit of Measurement,

NT - Not Traced

This test report was generated by TATA STEEL LIMITED JSR EMD LAB having NABL Accreditation No.TC-8363.

Sr. Manager
Monitoring and Analysis

Head Env't. Monitoring
Testing & Analysis (TSJ)



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT
CONTINUOUS AMBIENT AIR QUALITY REPORT FOR CRM BARA - OCT 2023 TO MARCH 2024

ANNEXURE - I

Sl. No.	Parameter	UoM	Standard	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1
				Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	138	185	185	222	162	135
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	51	87	86	117	75	57
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	6	22	36	36	36	34
4	Nitrogen Dioxide (NO _x)	$\mu\text{g}/\text{m}^3$	80	22	42	51	47	37	35
5	Carbon Monoxide (CO)	mg/m^3	2	1.3	1.4	1.1	1	0.8	0.7

Note:

Standards applicable as per National Ambient Air Quality Standards vide Notification No.: B-29016/20/90/PCI-L dated 18th November 2009.

UoM - Unit of Measurement, WPFA - West Plant First Aid Station

CRM - Cold Roll, PH - Powerhouse

NT - Not Traced

This test report was generated by TATA STEEL LIMITED JSR EMD LAB having NABL Accreditation No.TC-8363.

. Manager
Monitoring and Analysis

Head
Environment Monitoring, Testing &
Analysis (TSJ)



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
AMBIENT AIR QUALITY REPORT FOR CRM BARA - OCT 2023 TO MARCH 2024

Location	Parameter	UoM	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	March-24
NEAR DISPATCH SHUTTER	Particulate Matter, PM10	$\mu\text{g}/\text{m}^3$	142.16	159.82	234.43	222.78	186.88	131.13
	Particulate Matter, PM2.5		54.04	61.15	92.08	82.31	69.17	51.84
	Sulphur Dioxide (SO ₂)		10.98	8.55	25.21	28.68	20.75	13.32
	Nitrogen Dioxide, (NO ₂)		23.55	33.22	42.85	36.09	37.10	36.41
	Carbon Monoxide (CO)		0.21	0.26	0.21	0.26	0.28	0.26
	Ammonia (NH ₃)		31.77	35.02	60.70	61.70	38.69	31.02
	Ozone (O ₃)		14.89	8.54	9.77	9.77	9.28	10.74
	Nickel (Ni)		0.11	0.12	0.10	0.09	< 0.01	< 0.01
	Arsenic (As)		NT	NT	NT	NT	NT	NT
	Lead (Pb)		0.05	0.07	0.06	0.05	0.01	0.01
	Benzene (C ₆ H ₆)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo alpha Pyrene (BaP)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
NEAR FIRE FIGHTING STATION	Particulate Matter, PM10	$\mu\text{g}/\text{m}^3$	107.74	149.58	232.01	248.03	169.09	95.79
	Particulate Matter, PM2.5		42.41	56.95	89.07	96.21	66.34	36.26
	Sulphur Dioxide (SO ₂)		11.88	9.82	21.95	13.43	20.80	13.56
	Nitrogen Dioxide, (NO ₂)		44.25	25.63	39.53	33.43	43.72	45.31
	Carbon Monoxide (CO)		0.26	0.27	0.19	0.30	0.29	0.24
	Ammonia (NH ₃)		38.02	36.98	55.37	48.02	67.37	46.03
	Ozone (O ₃)		11.47	10.01	12.45	16.84	11.23	16.11
	Nickel (Ni)		0.14	0.15	0.13	0.15	< 0.01	< 0.01
	Arsenic (As)		NT	NT	NT	NT	NT	NT
	Lead (Pb)		0.09	0.10	0.08	0.09	0.01	0.01
	Benzene (C ₆ H ₆)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo alpha Pyrene (BaP)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
NEAR ROLL SHUTTER	Particulate Matter, PM10	$\mu\text{g}/\text{m}^3$	164.07	194.18	268.18	229.98	146.84	131.83
	Particulate Matter, PM2.5		64.75	68.45	100.66	87.43	53.04	50.75
	Sulphur Dioxide (SO ₂)		8.04	17.82	19.03	20.14	16.41	13.76
	Nitrogen Dioxide, (NO ₂)		33.32	42.20	34.64	33.97	39.45	28.26
	Carbon Monoxide (CO)		0.24	0.22	0.20	0.25	0.26	0.25
	Ammonia (NH ₃)		55.73	31.35	36.35	62.70	31.02	29.02
	Ozone (O ₃)		10.99	10.74	10.50	15.38	11.23	11.48
	Nickel (Ni)		0.15	0.13	0.12	0.16	< 0.01	< 0.01
	Arsenic (As)		NT	NT	NT	NT	NT	NT
	Lead (Pb)		0.05	0.06	0.05	0.08	0.01	0.01
	Benzene (C ₆ H ₆)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo alpha Pyrene (BaP)		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
AMBIENT AIR QUALITY REPORT FOR CRM BARA - OCT 2023 TO MARCH 2024

Note:

Standards applicable as per National Ambient Air Quality Standards vide Notification No.: B-29016/20/90/PCI-L dated 18th November 2009.

UoM - Unit of Measurement,

WPFA - West Plant First Aid Station

CRM - Cold Roll, PH - Powerhouse

NT - Not Traced

This test report was generated by TATA STEEL LIMITED JSR EMD LAB having NABL Accreditation No. TC-8363.

A handwritten signature in blue ink, appearing to read "Naagan zuma".

Sr. Manager
Monitoring and Analysis

A handwritten signature in blue ink, appearing to read "TSJ".

Head
Environment Monitoring, Testing
& Analysis (TSJ)



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
NOISE LEVEL MONITORING REPORT SUMMARY FOR CRM BARA FROM OCT 2023 TO MARCH 2024

			Oct-23		Nov-23		Dec-23		Jan-24		Feb-24		Mar-24	
Sl.No.	Sampling Location		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
			dB(A) Leq		dB(A) Leq		dB(A) Leq		dB(A) Leq		dB(A) Leq		dB(A) Leq	
1	Entrance Main Gate	Result	70.1	59.9	73.6	56.5	72.7	68.1	57.6	56.5	68.5	65.2	65.3	56.6
2	Circle Near Main Gate		68.3	58.2	70.7	58.2	68.3	65.2	60.3	58.2	69.8	62.4	58.9	55.6
3	Circle Near Gate No-1		72.4	60.8	69.2	55.7	70.4	65.6	67.5	55.6	70.1	65.5	73.6	55.8
4	Gate No-1		73.3	63.8	71.3	54.6	69.3	64.5	73	55.2	71.6	62.6	72.1	56.5
5	Gate No-2		68.8	57.8	74.4	58.1	56.8	60.6	61.1	57.4	67.8	63.4	65.7	53.5

Note: Standards applicable as per Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 notified vide S. O. 1046 (E), dated 22-11-2000.

Sr. Manager
Monitoring and Analysis

Head
Environment Monitoring, Testing &
Analysis (TSJ)




Tata Steel Limited
Environmental Monitoring Report of CRM Bara
Manual Stack Emission Monitoring Report from October 2023 to March 2024

Month	Location	UoM	Standard	Parameter	Result
Oct-23	ARP	mg/Nm ³	100	PM	6.5
	Pickling				5.8
	Boiler				7.8
	Shot Blasting				12.5
Nov-23	ARP				
	Pickling				5.5
	Boiler				6
	Shot Blasting				7.9
Dec-23	ARP				12
	Pickling				7.6
	Boiler				9.7
	Shot Blasting				18.3
Jan-24	ARP				9.6
	Pickling				<5
	Boiler				5.1
	Shot Blasting				10
Feb-24	ARP				
	Pickling				
	Boiler				
	Shot Blasting				
March-24	ARP				8.1
	Pickling				5
	Boiler				7.8
	Shot Blasting				5.3

Note:

Standards applicable as per CTO, Ref No. JSPCB/HO/RNC/CTO-10350692/2022/109
Dated on 28-01-2022.


Manager
Steel Making, CRM Bara &
Tubes Division


Head
Environment
Monitoring,
Testing &
Analysis (TSJ)

TATA STEEL LIMITED				
ENVIRONMENTAL MANAGEMENT DEPARTMENT- LABORATORY				
WORKZONE MONITORING DATA_FY 23-24				
SL No.	Date	Section	Classification	Acid Mist as HCL (mg/Nm3)
1	05.10.2023	CRM BARA (ARP Tank Fram Area)	Acid Mist (HCL)	0.39
2	05.10.2023	CRM BARA (ARP Pump Room)	Acid Mist (HCL)	0.41
3	05.10.2023	CRM BARA (ARP Roaster at 16 M)	Acid Mist (HCL)	0.51
4	07.10.2023	CRM BARA (Pickling Line Column B12 Lower)	Acid Mist (HCL)	0.47
5	07.10.2023	CRM BARA (Pickling Line Column B13 Upper)	Acid Mist (HCL)	0.43
6	07.10.2023	CRM BARA (ARP Pickling A 12 to A 13 Crane Gantry)	Acid Mist (HCL)	0.26
7	12.10.2023	CRM BARA (DM Plant)	Acid Mist (HCL)	0.42
8	14.10.2023	CRM BARA (Pickling Tank 5)	Acid Mist (HCL)	0.38
9	14.10.2023	CRM BARA (ARP Ventury at 12 m)	Acid Mist (HCL)	0.39
10	06.10.2023	Reversing Mill Table	Oil Fumes	NA
11	06.10.2023	Reversing Mill Drive Side	Oil Fumes	NA
12	06.10.2023	Electro Static Oiler Near HSPM	Oil Fumes	NA
13	09.10.2023	Reversing Mill Behind DTR Cabin	Oil Fumes	NA
14	12.10.2023	Reversing Mill Behind ETR Cabin	Oil Fumes	NA
15	04.10.2023	ARP Roaster Bottom	Iron Oxide	NA
16	04.10.2023	ARP Cyclone at 12 Meter	Iron Oxide	NA
17	12.10.2023	DM Plant	NaoH	NA
18	04.11.2023	CRM BARA (Pickling Line Column B12 Lower)	Acid Mist (HCL)	0.36
19	04.11.2023	CRM BARA (Pickling Line Column B13 Upper)	Acid Mist (HCL)	0.42
20	04.11.2023	CRM BARA (ARP Pickling A 12 to A 13 Crane Gantry)	Acid Mist (HCL)	0.30
21	06.11.2023	CRM BARA (ARP Roaster at 16 M)	Acid Mist (HCL)	0.49
22	07.11.2023	CRM BARA (ARP Tank Fram Area)	Acid Mist (HCL)	0.28
23	07.11.2023	CRM BARA (ARP Pump Room)	Acid Mist (HCL)	0.21
24	07.11.2023	CRM BARA (ARP Ventuary at 12 M)	Acid Mist (HCL)	0.48
25	08.11.2023	CRM BARA (Pickling Tank 5)	Acid Mist (HCL)	0.44

SL No.	Date	Section	Classification	Acid Mist as HCL (mg/Nm3)
26	09.11.2023	CRM BARA (DM Plant)	Acid Mist (HCL)	0.46
27	03.11.2023	Reversing Mill Table (N-46)	Oil Fumes	NA
28	03.11.2023	Electrostatic Oiler Near HSPM	Oil Fumes	NA
29	03.11.2023	Reversing Mill Behind DTR Cabin	Oil Fumes	NA
30	08.11.2023	Reversing Mill Drive Side	Oil Fumes	NA
31	08.11.2023	Reversing Mill Behind ETR Cabin	Oil Fumes	NA
32	06.11.2023	ARP Roaster Bottom	Iron Oxide	NA
33	06.11.2023	ARP Cyclone at 12 Meter	Iron Oxide	NA
34	09.11.2023	DM Plant	NaoH	NA
35	08.12.2023	CRM BARA (ARP Tank Fram Area)	Acid Mist (HCL)	0.42
36	08.12.2023	CRM BARA (ARP Roaster at 16 M)	Acid Mist (HCL)	0.53
37	09.12.2023	CRM BARA (Pickling Line Column B12 Lower)	Acid Mist (HCL)	0.46
38	09.12.2023	CRM BARA (Pickling Line Column B13 Upper)	Acid Mist (HCL)	0.45
39	09.12.2023	CRM BARA (ARP Pickling A 12 to A 13 Crane Gantry)	Acid Mist (HCL)	0.32
40	13.12.2023	CRM BARA (DM Plant)	Acid Mist (HCL)	0.41
41	13.12.2023	CRM BARA (Pickling Tank 5)	Acid Mist (HCL)	0.39
42	14.12.2023	CRM BARA (ARP Pump Room)	Acid Mist (HCL)	0.57
43	14.12.2023	CRM BARA (ARP Ventuary at 12 M)	Acid Mist (HCL)	0.56
44	15.12.2023	Reversing Mill Drive Side	Oil Fumes	NA
45	15.12.2023	Electrostatic Oil Near HSPM	Oil Fumes	NA
46	16.12.2023	Reversing Mill Table	Oil Fumes	NA
47	16.12.2023	Reversing Mill Behind ETR Cabin	Oil Fumes	NA
48	16.12.2023	Reversing Mill Behind DTR Cabin	Oil Fumes	NA
49	07.12.2023	ARP Cyclone at 12 M	Iron Oxide	NA
50	07.12.2023	ARP Roaster Bottom	Iron Oxide	NA
51	13.12.2023	DM Plant	NaoH	NA
52	04.01.2024	CRM BARA (ARP Ventuary at 12 M)	Acid Mist (HCL)	<0.02
53	08.01.2024	CRM BARA (DM Plant)	Acid Mist (HCL)	<0.02

SL No.	Date	Section	Classification	Acid Mist as HCL (mg/Nm3)
54	08.01.2024	CRM BARA (ARP Roaster at 16 M)	Acid Mist (HCL)	<0.02
55	09.01.2024	CRM BARA (ARP Tank Fram Area)	Acid Mist (HCL)	0.45
56	09.01.2024	CRM BARA (ARP Pump Room)	Acid Mist (HCL)	0.57
57	09.01.2024	CRM BARA (ARP Pickling A 12 to A 13 Crane Gantry)	Acid Mist (HCL)	0.39
58	16.01.2024	CRM BARA (Pickling Line Column B12 Lower)	Acid Mist (HCL)	0.57
59	16.01.2024	CRM BARA (Pickling Line Column B13 Upper)	Acid Mist (HCL)	0.49
60	16.01.2024	CRM BARA (Pickling Tank 5)	Acid Mist (HCL)	0.44
61	05.01.2024	Electrostatic Oiler Near HSPM	Oil Fumes	NA
62	06.01.2024	Reversing Mill table	Oil Fumes	NA
63	06.01.2024	Reversing Mill Drive Side	Oil Fumes	NA
64	15.01.2024	Reversing Mill Behind ETR Cabin	Oil Fumes	NA
65	15.01.2024	Reversing Mill Behind DTR Cabin	Oil Fumes	NA
66	04.01.2024	ARP Roaster Bottom	Iron Oxide	NA
67	04.01.2024	ARP Cyclone at 12 Meter	Iron Oxide	NA
68	08.01.2024	DM Plant	NaoH	NA
69	02.03.2024	CRM BARA (Pickling Line Column B12 Lower)	Acid Mist (HCL)	0.53
70	02.03.2024	CRM BARA (Pickling Line Column B13 Upper)	Acid Mist (HCL)	0.53
71	02.03.2024	CRM BARA (ARP Pickling A 12 to A 13 Crane Gantry)	Acid Mist (HCL)	0.60
72	05.03.2024	CRM BARA (DM Plant)	Acid Mist (HCL)	0.45
73	08.03.2024	CRM BARA (ARP Roaster at 16 M)	Acid Mist (HCL)	0.5
74	09.03.2024	CRM BARA (ARP Ventuary at 12 M)	Acid Mist (HCL)	0.61
75	12.03.2024	CRM BARA (Near Pickling Tank 5)	Acid Mist (HCL)	0.47
76	13.03.2024	CRM BARA (ARP Near Pump Room)	Acid Mist (HCL)	0.44
77	13.03.2024	CRM BARA (ARP Near Tank Farn Area)	Acid Mist (HCL)	0.32
78	04.03.2024	Reversing Mill Table	Oil Fumes	NA
79	04.03.2024	Reversing Mill Behind DTR Cabin	Oil Fumes	NA
80	04.03.2024	Electrostatic Oiler Near HSPM	Oil Fumes	NA
81	11.03.2024	Reversing Mill Drive Side	Oil Fumes	NA

SL No.	Date	Section	Classification	Acid Mist as HCL (mg/Nm3)
82	11.03.2024	Reversing Mill Behind ETR Cabin	Oil Fumes	NA
83	09.03.2024	ARP Cyclone at 12 Meter	Iron Oxide	NA
84	09.03.2024	ARP Roaster Bottom	Iron Oxide	NA
85	05.03.2024	DM Plant	NaoH	NA



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
GROUNDWATER MONITORING REPORT- OCT 2023 TO MARCH 2024

Month	Sampling Locations	pH	Temperature	Conductivity	Total Dissolved Solids	Total Suspended Solids	Alkalinity as CaCO ₃	Total Hardness as CaCO ₃	Calcium as Ca	Chlorides as Cl ⁻	Sulphates as SO ₄ ⁻²
		--	oC	μMho/Cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Oct-23	SonariBore water	8.4	26.8	972.0	476.3	<10	250.0	407.6	47.8	80.0	97.8
	Baganhattu Bore water	6.5	27.9	991.0	485.6	<10	85.0	370.2	93.8	62.4	63.3
	Jemco Bore Water	6.7	28.1	772.0	378.3	<10	138.0	298.0	85.3	58.5	98.1
	Parvati GhatBore water	6.9	28.2	3397.0	1664.5	<10	664.0	1154.6	311.6	67.0	517.2
	Jugsalai Bore Water	7.2	28.3	1455.0	713.0	<10	440.0	582.3	183.6	30.0	225.4
Nov-23	Parvati GhatBore water	6.8	27.8	2950.0	1445.5	<10	638.0	1459.8	341.2	229.9	471.5
	Jugsalai Bore Water	7.2	27.3	1081.0	529.7	<10	352.0	407.6	112.3	81.0	132.1
	SonariBore water	6.9	26.6	941.0	461.1	<10	248.0	329.3	77.5	82.0	124.2
	Baganhattu Bore water	6.5	27.2	984.0	482.2	<10	94.0	80.3	99.4	66.0	57.9
	Jemco Bore Water	7.1	26.5	1113.0	545.4	<10	412.0	453.8	89.2	75.4	58.2
Dec-23	Parvati GhatBore water	7.0	26.8	2951.0	1446.0	2.0	638.0	1512.0	322.6	202.9	338.0
	Jugsalai Bore Water	7.4	26.9	1060.0	519.4	2.0	324.0	423.7	110.3	80.0	107.2
	Baganhattu Bore water	6.8	25.2	990.0	485.1	<10.0	100.0	386.0	96.4	219.9	62.5
	SonariBore water	6.9	25.5	781.0	382.7	<10.0	236.0	314.0	83.1	63.0	99.6
	Jemco Bore Water	7.1	24.5	1111.0	544.4	6.0	418.0	498.0	94.2	110.0	69.3
Jan-24	Jugsalai Bore Water	7.2	26.9	1138.0	557.6	<10.0	432.0	492.0	115.4	115.0	26.5
	Parvati GhatBore water	7.0	26.8	2899.0	1420.5	<10.0	620.0	1393.6	298.4	234.9	46.3
	Jemco Bore Water	7.7	27.8	1538.0	753.6	<10	48.0	508.0	103.4	156.0	170.5
	SonariBore water	6.9	27.6	772.0	378.3	<10.0	236.0	307.2	97.1	61.0	94.9
	Baganhattu Bore water	6.7	27.6	973.0	476.8	<10.0	110.0	361.4	118.4	203.9	57.0
Feb-24	Jugsalai Bore Water	6.9	26.9	665.0	325.9	<10	216.0	239.0	71.1	51.0	50.9
	Parvati GhatBore water	7.0	27.5	2624.0	1285.8	<10	588.0	1253.0	310.8	167.9	153.0
	Jemco Bore Water	7.7	26.4	1530.0	749.7	<10	52.0	524.1	173.7	184.9	339.0
	Baganhattu Bore water	6.9	26.6	665.0	325.9	<10	156.0	289.2	70.3	53.0	21.8
	SonariBore water	7.0	28.0	905.0	443.5	<10.0	256.0	415.7	107.6	76.0	28.0
Mar-24	SonariBore water	7.1	26.9	911.0	446.4	<10	236.0	351.4	102.6	72.9	65.9
	Baganhattu Bore water	6.7	27.3	935.0	458.2	<10	86.0	352.6	78.3	203.9	52.6
	Jemco Bore Water	7.3	26.3	1514.0	741.9	<10	32.0	502.0	184.1	154.0	98.0
	Jugsalai Bore Water	7.1	25.4	1109.0	543.4	<10	400.0	283.1	141.4	76.0	117.7
	Parvati GhatBore water	7.1	25.2	2562.0	1255.4	<10	360.0	616.5	255.8	194.9	119.3



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
GROUNDWATER MONITORING REPORT- OCT 2023 TO MARCH 2024

Month	Sampling Locations	Nitrate Nitrogen as N	Nitrite Nitrogen as N	Fluorides as F ⁻	Silica as SiO ₂	Iron as Fe	Manganese as Mn	Hexavalent Chromium as Cr+6	Copper as Cu	Total Chromium as Cr	Cadmium Cd	Nickel as Ni	Zinc as Zn	Lead as Pb
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Oct-23	SonariBore water	4.3	0.04	1.654	10.4	0.12	0.01	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.06
	Baganhattu Bore water	4.1	0.07	0.503	9.3	0.42	0.69	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.01
	Jemco Bore Water	5	<0.02	0.354	7.7	0.04	0.36	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.01
	Parvati GhatBore water	3.7	0.06	0.92	25.8	0.01	0.08	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	0.00
	Jugsalai Bore Water	1.5	<0.02	0.507	26.18	0.00	0.01	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.10	0.02
Nov-23	Parvati GhatBore water	19.9	0.12	0.84	25.14	0.02	0.07	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.04	0.03
	Jugsalai Bore Water	1.1	<0.02	0.521	19.26	<0.1	<0.01	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.02
	SonariBore water	2.1	0.03	0.96	26.21	0.09	0.02	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.04	0.06
	Baganhattu Bore water	<0.5	0.05	0.12	25.64	0.26	0.38	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.04
	Jemco Bore Water	4.7	0.07	0.08	7.32	0.05	0.21	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.06
Dec-23	Parvati GhatBore water	1.3	0.05	0.874	27.51	0.01	0.05	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.08	0.08
	Jugsalai Bore Water	1.7	<0.02	0.486	25.75	0.01	0.02	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.05
	Baganhattu Bore water	0.4	0.04	0.074	24.06	0.19	0.25	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.1	0.05
	SonariBore water	0.7	0.03	0.456	27.78	0.07	0.03	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.11	0.02
	Jemco Bore Water	2.8	0.11	0.2	10.84	0.04	0.14	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.07	0.04
Jan-24	Jugsalai Bore Water	0.6	<0.02	0.568	26.46	0.04	0.01	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.06
	Parvati GhatBore water	12.2	0.09	0.557	46.3	0.02	0.03	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.03
	Jemco Bore Water	4.3	0.28	0.447	170.5	0.05	0.19	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.06	0.01
	SonariBore water	0.9	0.04	0.39	94.9	0.05	0.04	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.02
	Baganhattu Bore water	0.5	0.03	0.444	56.96	0.16	0.21	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.04
Feb-24	Jugsalai Bore Water	1.5	<0.02	1.77	10.9	0.38	13.47	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.04	0.01
	Parvati GhatBore water	1.4	0.10	1.101	24.95	0.11	84.82	<0.05	< 0.01	0.07	< 0.01	< 0.01	0.1	0.04
	Jemco Bore Water	4.4	0.03	2.72	27.35	0.1	6.1	<0.05	< 0.01	< 0.01	< 0.01	0.01	0.02	0.15
	Baganhattu Bore water	0.6	0.06	0.059	15.06	0.14	20.12	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.01
	SonariBore water	1.3	<0.02	1.564	28.95	0.04	18.94	<0.05	< 0.01	< 0.01	< 0.01	0.03	0.03	0.01
Mar-24	SonariBore water	9.57	0.17	0.24	31.1	< 0.01	18.46	<0.05	< 0.01	< 0.01	< 0.01	0.02	0.05	0.02
	Baganhattu Bore water	4.65	0.03	0.33	39	0.12	22.43	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.02
	Jemco Bore Water	3.2	0.02	0.23	13.4	0.08	7.8	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.04	0.03
	Jugsalai Bore Water	6.93	0.02	0.57	29.24	0.28	28.89	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.01
	Parvati GhatBore water	12.43	0.12	0.94	27.11	0.03	64.96	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.01



TATA STEEL LIMITED
ENVIRONMENT MANAGEMENT DEPARTMENT – LABORATORY
GROUNDWATER MONITORING REPORT- OCT 2023 TO MARCH 2024

Month	Sampling Locations	Nitrogen (Ammonia) as N	Residual Chlorine as Cl	Sulphide as S ⁻²	Phenolic Compounds as Phenols	Free Cyanide	Aluminum
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Oct-23	Sonari Bore water	<1.0	<0.2	<0.10	<0.10	<0.1	0.04
	Baganhattu Bore water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
	Jemco Bore Water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
	Parvati Ghat Bore water	<1.0	<1.0	<0.10	<0.10	<0.1	<0.01
	Jugsalai Bore Water	<1.0	<1.0	<0.10	<0.10	<0.1	<0.01
Nov-23	Parvati Ghat Bore water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
	Jugsalai Bore Water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
	Sonari Bore water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
	Baganhattu Bore water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
	Jemco Bore Water	<1.0	<0.2	<0.10	<0.10	<0.1	<0.01
Dec-23	Parvati Ghat Bore water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Jugsalai Bore Water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Baganhattu Bore water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Sonari Bore water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Jemco Bore Water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
Jan-24	Jugsalai Bore Water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Parvati Ghat Bore water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Jemco Bore Water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Sonari Bore water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
	Baganhattu Bore water	<1.0	<0.1	<0.10	<0.10	<0.1	<0.01
Feb-24	Jugsalai Bore Water	<1.0	<1.0	<0.10	<0.10	<0.1	< 0.01
	Parvati Ghat Bore water	<1.0	<1.0	<0.10	<0.10	<0.1	0.05
	Jemco Bore Water	<1.0	<1.0	<0.10	<0.10	<0.1	0.07
	Baganhattu Bore water	<1.0	<1.0	<0.10	<0.10	<0.1	< 0.01
	Sonari Bore water	0.43	<1.0	<0.10	<0.10	<0.1	< 0.01
Mar-24	Sonari Bore water	< 1.0	<1.0	<0.10	<0.10	<0.1	< 0.01
	Baganhattu Bore water	< 1.0	<1.0	<0.10	<0.10	<0.1	< 0.01
	Jemco Bore Water	< 1.0	<1.0	<0.10	<0.10	<0.1	< 0.01
	Jugsalai Bore Water	< 1.0	<1.0	<0.10	0.47	<0.1	0.07
	Parvati Ghat Bore water	< 1.0	<1.0	<0.10	0.65	<0.1	< 0.01

Sr. Manager Monitoring and Analysis

Head Environment Monitoring, Testing & Analysis (TSJ)



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Ramky Enviro Engineers Limited

Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

ISO 9001:2008 C No FSS70987 ISO 14001:2004 C No EMS 570797 OHSAS 18001:2007 C No OHS 570500 IMS PAS 99:2006 C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

Towards sustainable growth

Report No.	RWMP/Lab/CA/102/20-21	Report Date	2	3	.	0	9	.	2	0	2
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Name of Client : M/s. TATA STEEL LTD.	
Contact Details : -	
CRM COMPLEX BARA, PO:AGRICO,JAMSHEDPUR-831009	
Telephone No. :	Fax No. :
Email ID :	
Membership No. :	

Name of Sample / Hazardous Waste : ETP Sludge	
Description of Sample When Received : Solid	
Sample Reference Number : 102/20-21	Sample Received Date 0 8 . 0 9 . 2 0 2 0
Sample Drawn By :	
Waste Category: Schedule-I, Cat. -35.3	
RAW Material List / Process Details Enclosed <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> NO
MSDS Provided by Client <input type="checkbox"/> Yes	<input checked="" type="checkbox"/> NO
Sample Registration No: RWMP/LAB/CA/102/20-21	
Confirmation Date 1 5 . 0 9 . 2 0 2 0	Confirmation by: MBD Dept., RWMP

Analysis start date 1 5 . 0 9 . 2 0 2 0	
Testing Period	09 Days

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

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Udaipur - 313024 (Raj.) Tel. : +91-294-2802032, 2658253-54

Email : rwmp@ramky.com

MANAGING HAZARDOUS WASTE



Corporate Office :

Ramky Enviro Engineers Ltd.

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Ramky Enviro Engineers Limited

Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | IMS PAS 99:2066
C No ES570987 | C No EMS 570797 | C No OHS 570500 | C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

Report No.	RWMP/Lab/CA/102/20-21	Report Date	2	3	.	0	9	.	2	0	2
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Sr. No.	Particulars	Observation	Remarks (If any)
1*	Does the waste have strong Odor?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
2*	Does the waste give fumes exposed to the atmosphere?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
3*	Does the waste react with water?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
4*	Is the waste incompatible with any material? If so specify	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	

Towards sustainable growth

TEST REPORT

Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfill disposal
5*	Physical State	-	-	Solid	Not Specified
6*	Color	-	-	Black	Not Specified
7*	Texture	-	-	Wet	Not Specified
8	PFLT (Paint Filter Liquid Test)	-	USEPA 1998, SW-846; 9095A	Pass	Pass
9	Bulk Density	g/cc	APHA 23 rd Edition; 2710 F	1.22	Not Specified
10	Calorific Value	cal/g	IS:1350 Part II - 1970	385.40	<2500
11*	Flash Point	°C	USEPA 1998, SW 846; 1020 A	>60	>60
12	Moisture Content	%	IS 326 (Part 21): 2001	NA	Not Specified
13	LOD @ 105°C	%	APHA 23 rd Edition, 2017; 2540	66.59	Not Specified
14	LOI @ 550°C	%	APHA 23 rd Edition, 2017; 2540	7.32	<20
15*	Ash Content @ 900°C	%	APHA 23 rd Edition, 2017; 2540	91.48	Not Specified

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Ramky Enviro Engineers Limited

Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

COMPREHENSIVE ANALYSIS REPORT

IS 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | IMS PAS 99:2066
C No. TS/1997 | C No. EMS 370757 | C No. OHS 370500 | C No. IM 570907

Report No.	RWMP/Lab/CA/102/20-21	Report Date	2	3	.	0	9	.	2	0	2
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Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfill disposal
16	pH (At Room Temperature)	-	USEPA 1998, SW-846; 9045 C	8.46	4 -12
17	Chloride as Cl ⁻	mg/kg	APHA 23 rd Edition; 4500 SO ₄ ²⁻ - E	3610.67	Not Specified
18*	Nitrate as NO ₃ ⁻	mg/kg	APHA 23 rd Edition; 4500 NO ₃ ⁻ - B	5.04	<30
19	Sulphate as SO ₄ ²⁻	mg/kg	USEPA 1998, SW-846; 9253	217.47	Not Specified
20*	Fluorides as F ⁻	mg/kg	APHA 23 rd Edition; 4500 F ⁻ - D	ND	Not Specified
21*	Phosphate as PO ₄ ³⁻	mg/kg	APHA 23 rd Edition; 4500 PO ₄ ³⁻ - E	15.12	Not Specified
22*	Specific Gravity	g/cc	APHA 23 rd Edition; 2710 F	NA	Not Specified
23*	Organic Halogens	mg/kg	SW-846; 5050 & 9253	ND	Not Specified
24*	Reactive Cyanide as HCN	mg/kg	USEPA 1998, SW-846; 9014	<1.0	<250
25*	Reactive Sulphide as H ₂ S	mg/kg	USEPA 1998, SW-846; 9034	<10.0	<500
26*	Carbon	%	CHNS Analyzer	NA	Not Specified
27*	Hydrogen	%	CHNS Analyzer	NA	Not Specified
28*	Nitrogen	%	CHNS Analyzer	NA	Not Specified
29*	Sulphur	%	CHNS Analyzer	NA	Not Specified
30	Copper as Cu- Total	mg/kg	USEPA 1998, SW-846; 7210	122.10	Not Specified
31	Total Chromium as Cr- Total	mg/kg	USEPA 1998, SW-846; 7190	108.57	Not Specified
32	Iron as Fe- Total	mg/kg	USEPA 1998, SW-846; 7380	217944.90	Not Specified
33	Lead as Pb- Total	mg/kg	USEPA 1998, SW-846; 7420	93.47	Not Specified
34	Manganese as Mn - Total	mg/kg	USEPA 1998, SW-846; 7460	1495.41	Not Specified

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ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | IMS PAS 99:2066
C No. FS570987 | C No. EMS-570787 | C No. OHS-570500 | C No. IM-570907

COMPREHENSIVE ANALYSIS REPORT

Report No.	RWMP/Lab/CA/102/20-21	Report Date	2	3	.	0	9	.	2	0	2	0
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Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfill disposal
35	Nickel as Ni- Total	mg/kg	USEPA 1998, SW-846; 7520	440.62	Not Specified
36	Zinc as Zn- Total	mg/kg	USEPA 1998, SW-846; 7950	2053.10	Not Specified
37*	Cobalt as Co- Total	mg/kg	USEPA 1998, SW-846; 7200	13.52	Not Specified
38	Cadmium as Cd- Total	mg/kg	USEPA 1998, SW-846; 7130	12.43	Not Specified
(TCLP) Toxicity Characteristics Leaching Procedure					
39*	Arsenic as As	mg/L	USEPA 1998, SW-846; 7061 A	NA	<1
40	Cadmium as Cd	mg/L	USEPA 1998, SW-846; 7130	BDL	<0.2
41	Total Chromium as Cr	mg/L	USEPA 1998, SW-846; 7190	BDL	Not Specified
42*	Hexavalent Chromium as Cr ⁶⁺	mg/L	APHA 23 rd Edi., 2017: 3500 Cr B	<0.1	<0.5
43*	Cobalt as Co	mg/L	USEPA 1998, SW-846; 7200	BDL	Not Specified
44	Copper as Cu	mg/L	USEPA 1998, SW-846; 7210	BDL	<10
45	Iron as Fe	mg/L	USEPA 1998, SW-846; 7380	1.940	<3
46	Lead as Pb	mg/L	USEPA 1998, SW-846; 7420	0.074	<2
47	Manganese as Mn	mg/L	USEPA 1998, SW-846; 7460	0.066	Not Specified
48	Nickel as Ni	mg/L	USEPA 1998, SW-846; 7520	0.049	<3
49	Zinc as Zn	mg/L	USEPA 1998, SW-846; 7950	0.052	<10
(WLT) Water Leaching Testing					CPCB/HAZWAMS /TSDF Protocol/2010-2011
50*	Arsenic as As	mg/L	USEPA 1998, SW-846; 7061 A	NA	<1.0
51*	Cadmium as Cd	mg/L	APHA 23 rd Edition, 3111 B	0.069	<0.2
52*	Total Chromium as Cr	mg/L	APHA 23 rd Edition, 3111 B	BDL	Not Specified

Towards sustainable growth

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(Rajkumar Parmar - Dy. Manager)

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C No FS570987 | C No EMS 570797 | C No OHS 570500 | C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

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53*	Hexavalent Chromium as Cr ⁶⁺	mg/L	APHA 23 rd Edi., 2017: 3500 Cr B	<0.1	<0.5
54*	Cobalt as Co	mg/L	APHA 23 rd Edition, 3111 B	BDL	Not Specified
55*	Copper as Cu	mg/L	APHA 23 rd Edition, 3111 B	0.008	<10
56*	Iron as Fe	mg/L	APHA 23 rd Edition, 3111 B	1.920	<3
57*	Lead as Pb	mg/L	APHA 23 rd Edition, 3111 B	0.072	<2
58*	Manganese as Mn	mg/L	APHA 23 rd Edition, 3111 B	0.063	Not Specified
59*	Nickel as Ni	mg/L	APHA 23 rd Edition, 3111 B	0.048	<3
60*	Zinc as Zn	mg/L	APHA 23 rd Edition, 3111 B	0.049	<10

Towards sustainable growth

Safety Instructions for Handling of Hazardous Waste (if any) -

Use PPE's during handling of ETP Sludge.

ABBREVIATIONS

CPCB	- Central Pollution Control Board
SW 846	- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, 1998
Std. Methods	- Standard Methods for the Examination of Water & Wastewater, APHA 23 rd Edition, 2017
TCLP	- Toxicity Characteristic Leaching Procedure
WLT	- Water Leaching Testing
LOD	- Loss on Drying
LOI	- Loss on Ignition
NA	- Not Applicable
ND	- Not Detected
BDL	- Below Detectable Limit
Y	- Yes
N	- No

"The tests marked with an * are not accredited by NABL"

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(Rajkumar Parmar - Dy. Manager)

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COMPREHENSIVE ANALYSIS REPORT

Towards sustainable growth

Report No.	RWMP/Lab/CA/102/20-21	Report Date	2	3	.	0	9	.	2	0	2
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- Inland Surface discharge water standard Applicable.

TERMS AND CONDITIONS

1. The analysis report refers only to the 'as received' sample of waste
2. The report cannot be produced in part or in full without the permission of Rajasthan Waste Management Project
3. In the absence of specific request from the customer, RWMP follows National/International standards specifications for conducting the tests. Alternatively, in the absence of these methods, RWMP shall follow the operating procedures developed by RWMP.
4. The laboratory, normally, will not offer any opinion/advise or recommendation with respect to the suitability or otherwise of the sample for any application or use. Conformities to a specification or Act will be mentioned as per the Act/specification, if required.
5. Under no circumstances RWMP accepts any liability or loss or damage caused by use or misuse of the test report. Liability is limited to the testing fee charged, in case of proven negligence by the laboratory.
6. RWMP shall not assume any responsibility for variation in test results of samples kept on hold for want of clarification.
7. Client may visit (If desired) our laboratory to witness the related tests.
8. This Test report is valid for two years from the date of issue of report, if there is no change in processes, raw materials etc.

Disposal Pathway/Opinions/Interpretations

Direct Landfill

END OF REPORT

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

Page 6 of 6

Rev. No. 01/ 04.08.2018

Site Address :
Ramky Enviro Engineers Limited
Unit : Rajasthan Waste Management Project, TSDF-Udaipur
Survey No- 10/10/13, Village-Guan,

MANAGING HAZARDOUS WASTE

Corporate Office :
Ramky Enviro Engineers Ltd.



Ramky Grandline, Floor-10/12, Dimple Tower, Connaught Place, New Delhi-110028
Rajkumbh, Hyderabad-500022



Accredited Laboratory
Certificate No. TC-5729



Ramky Enviro Engineers Limited

Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | IMS PAS 99:2066
C No FS570987 | C No EMS 570797 | C No OHS 570500 | C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

Report No.	RWMP/Lab/CA/99/20-21	Report Date	2	3	.	0	9	.	2	0	2
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Name of Client	M/s. TATA STEEL LTD.										
Contact Details	-										
	CRM COMPLEX BARA, PO: AGRICO, JAMSHEDPUR-831009										
Telephone No.						Fax No.					
Email ID											
Membership No.	-										

Name of Sample / Hazardous Waste	Wastes/Residues Containing Oil													
Description of Sample When Received	Solid													
Sample Reference Number	99/20-21			Sample Received Date	0	8	.	0	9	.	2	0	2	0
Sample Drawn By														
Waste Category:	Schedule-I, Cat. -													
RAW Material List / Process Details Enclosed	<input type="checkbox"/> Yes					<input checked="" type="checkbox"/> NO								
MSDS Provided by Client	<input type="checkbox"/> Yes					<input checked="" type="checkbox"/> NO								
Sample Registration No:	RWMP/LAB/CA/99/20-21													
Confirmation Date	1	5	.	0	9	.	2	0	2	0	Confirmation by: MBD Dept., RWMP			

Analysis start date	1	5	.	0	9	.	2	0	2	0			
Testing Period	09 Days												

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

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Rev. No. 01/ 04.08.2018

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Udaipur - 313024 (Raj.) Tel. : +91-294-2802032, 2658253-54
Email : rwmp@ramky.com

MANAGING HAZARDOUS WASTE



Corporate Office :

Ramky Enviro Engineers Ltd.
Ramky Grandiose - Floors - 12,13, Ramky Towers Complex
Gachibowli, Hyderabad - 500032
Ph. No.: 040-23015000, Fax No: 040-23015100
E-mail : info@ramky.com Website : www.ramky.com
REEL CIN: U74140AP1994PLC018833

Towards sustainable growth



Accredited Laboratory
Certificate No.TC-5729



Ramky Enviro Engineers Limited

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COMPREHENSIVE ANALYSIS REPORT

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Sr. No.	Particulars	Observation	Remarks (If any)
1*	Does the waste have strong Odor?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
2*	Does the waste give fumes exposed to the atmosphere?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
3*	Does the waste react with water?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
4*	Is the waste incompatible with any material? If so specify	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	

Towards sustainable growth

TEST REPORT

Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfill disposal
5*	Physical State	-	-	Solid	Not Specified
6*	Color	-	-	Black	Not Specified
7*	Texture	-	-	Wet	Not Specified
8	PFLT (Paint Filter Liquid Test)	-	USEPA 1998, SW-846; 9095A	Pass	Pass
9	Bulk Density	g/cc	APHA 23 rd Edition; 2710 F	0.84	Not Specified
10	Calorific Value	cal/g	IS:1350 Part II - 1970	8237.32	<2500
11*	Flash Point	°C	USEPA 1998, SW 846; 1020 A	>60	>60
12	Moisture Content	%	IS 326 (Part 21): 2001	NA	Not Specified
13	LOD @ 105°C	%	APHA 23 rd Edition, 2017; 2540	13.55	Not Specified
14	LOI @ 550°C	%	APHA 23 rd Edition, 2017; 2540	83.51	<20
15*	Ash Content @ 900°C	%	APHA 23 rd Edition, 2017; 2540	16.20	Not Specified

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

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Rev. No. 01/ 04.08.2018

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Email : rwmp@ramky.com

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Ramky Enviro Engineers Limited

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ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | IMS PAS 99:2006
C No FS570987 | C No EMS 570797 | C No OHS 570500 | C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

Report No.	RWMP/Lab/CA/99/20-21	Report Date	2	3	.	0	9	.	2	0	2
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Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfill disposal
16	pH (At Room Temperature)	-	USEPA 1998, SW-846; 9045 C	6.89	4 -12
17	Chloride as Cl ⁻	mg/kg	APHA 23 rd Edition; 4500 SO ₄ ²⁻ - E	307.30	Not Specified
18*	Nitrate as NO ₃ ⁻	mg/kg	APHA 23 rd Edition, 4500 NO ₃ ⁻ - B	6.37	<30
19	Sulphate as SO ₄ ²⁻	mg/kg	USEPA 1998, SW-846; 9253	224.15	Not Specified
20*	Fluorides as F ⁻	mg/kg	APHA 23 rd Edition; 4500 F ⁻ - D	ND	Not Specified
21*	Phosphate as PO ₄ ³⁻	mg/kg	APHA 23 rd Edition; 4500 PO ₄ ³⁻ - E	3.18	Not Specified
22*	Specific Gravity	g/cc	APHA 23 rd Edition; 2710 F	NA	Not Specified
23*	Organic Halogens	mg/kg	SW-846; 5050 & 9253	1232.34	Not Specified
24*	Reactive Cyanide as HCN	mg/kg	USEPA 1998, SW-846; 9014	<1.0	<250
25*	Reactive Sulphide as H ₂ S	mg/kg	USEPA 1998, SW-846; 9034	<10.0	<500
26*	Carbon	%	CHNS Analyzer	NA	Not Specified
27*	Hydrogen	%	CHNS Analyzer	NA	Not Specified
28*	Nitrogen	%	CHNS Analyzer	NA	Not Specified
29*	Sulphur	%	CHNS Analyzer	NA	Not Specified
30	Copper as Cu- Total	mg/kg	USEPA 1998, SW-846; 7210	NA	Not Specified
31	Total Chromium as Cr- Total	mg/kg	USEPA 1998, SW-846; 7190	NA	Not Specified
32	Iron as Fe- Total	mg/kg	USEPA 1998, SW-846; 7380	NA	Not Specified
33	Lead as Pb- Total	mg/kg	USEPA 1998, SW-846; 7420	NA	Not Specified
34	Manganese as Mn - Total	mg/kg	USEPA 1998, SW-846; 7460	NA	Not Specified

Towards sustainable growth

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

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Rev. No. 01/ 04.08.2018

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Ramky Enviro Engineers Limited

Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

ISO 9001:2008 C No FSS70987 ISO 14001:2004 C No EMS 570797 OHSAS 18001:2007 C No OHS 570500 IMS PAS 99:2006 C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

Report No.	RWMP/Lab/CA/99/20-21	Report Date	2	3	.	0	9	.	2	0	2
------------	----------------------	-------------	---	---	---	---	---	---	---	---	---

Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfill disposal
35	Nickel as Ni- Total	mg/kg	USEPA 1998, SW-846; 7520	NA	Not Specified
36	Zinc as Zn- Total	mg/kg	USEPA 1998, SW-846; 7950	NA	Not Specified
37*	Cobalt as Co- Total	mg/kg	USEPA 1998, SW-846; 7200	NA	Not Specified
38	Cadmium as Cd- Total	mg/kg	USEPA 1998, SW-846; 7130	NA	Not Specified

(TCLP) Toxicity Characteristics Leaching Procedure

39*	Arsenic as As	mg/L	USEPA 1998, SW-846; 7061 A	NA	<1
40	Cadmium as Cd	mg/L	USEPA 1998, SW-846; 7130	0.089	<0.2
41	Total Chromium as Cr	mg/L	USEPA 1998, SW-846; 7190	BDL	Not Specified
42*	Hexavalent Chromium as Cr ⁶⁺	mg/L	APHA 23 rd Edi., 2017: 3500 Cr B	<0.1	<0.5
43*	Cobalt as Co	mg/L	USEPA 1998, SW-846; 7200	0.009	Not Specified
44	Copper as Cu	mg/L	USEPA 1998, SW-846; 7210	BDL	<10
45	Iron as Fe	mg/L	USEPA 1998, SW-846; 7380	69.230	<3
46	Lead as Pb	mg/L	USEPA 1998, SW-846; 7420	0.132	<2
47	Manganese as Mn	mg/L	USEPA 1998, SW-846; 7460	1.112	Not Specified
48	Nickel as Ni	mg/L	USEPA 1998, SW-846; 7520	2.578	<3
49	Zinc as Zn	mg/L	USEPA 1998, SW-846; 7950	0.821	<10

(WLT) Water Leaching Testing

**CPCB/HAZWAMS
/TSDF
Protocol/2010-
2011**

50*	Arsenic as As	mg/L	USEPA 1998, SW-846; 7061 A	NA	<1.0
51*	Cadmium as Cd	mg/L	APHA 23 rd Edition, 3111 B	0.068	<0.2
52*	Total Chromium as Cr	mg/L	APHA 23 rd Edition, 3111 B	BDL	Not Specified

Authorized Signatory
(Rajkumar Parmar – Dy. Manager)

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Rev. No. 01/ 04.08.2018

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Towards sustainable growth



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C No F3570987 | C No EMS 570797 | C No OHS 570500 | C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

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------------	----------------------	-------------	---	---	---	---	---	---	---

53*	Hexavalent Chromium as Cr ⁶⁺	mg/L	APHA 23 rd Edi., 2017: 3500 Cr B	<0.1	<0.5
54*	Cobalt as Co	mg/L	APHA 23 rd Edition, 3111 B	0.006	Not Specified
55*	Copper as Cu	mg/L	APHA 23 rd Edition, 3111 B	BDL	<10
56*	Iron as Fe	mg/L	APHA 23 rd Edition, 3111 B	59.850	<3
57*	Lead as Pb	mg/L	APHA 23 rd Edition, 3111 B	0.126	<2
58*	Manganese as Mn	mg/L	APHA 23 rd Edition, 3111 B	1.002	Not Specified
59*	Nickel as Ni	mg/L	APHA 23 rd Edition, 3111 B	2.501	<3
60*	Zinc as Zn	mg/L	APHA 23 rd Edition, 3111 B	0.677	<10

Safety Instructions for Handling of Hazardous Waste (if any) -

Use PPE's during handling of Wastes/Residues Containing Oil.

ABBREVIATIONS

CPCB	- Central Pollution Control Board
SW 846	- Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, 1998
Std. Methods	- Standard Methods for the Examination of Water & Wastewater, APHA 23 rd Edition, 2017
TCLP	- Toxicity Characteristic Leaching Procedure (Carried out in Ash Sample)
WLT	- Water Leaching Testing (Carried out in Ash Sample)
LOD	- Loss on Drying
LOI	- Loss on Ignition
NA	- Not Applicable
ND	- Not Detected
BDL	- Below Detectable Limit
Y	- Yes
N	- No

"The tests marked with an * are not accredited by NABL"

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

Page 5 of 6

Rev. No. 01/ 04.08.2018

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C No FS570987 | C No EMS 570797 | C No OHS 570500 | C No IM 570907

COMPREHENSIVE ANALYSIS REPORT

Report No.	RWMP/Lab/CA/99/20-21	Report Date	2	3	.	0	9	.	2	0	2
------------	----------------------	-------------	---	---	---	---	---	---	---	---	---

- Inland Surface discharge water standard Applicable.

TERMS AND CONDITIONS

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2. The report cannot be produced in part or in full without the permission of Rajasthan Waste Management Project
3. In the absence of specific request from the customer, RWMP follows National/International standards specifications for conducting the tests. Alternatively, in the absence of these methods, RWMP shall follow the operating procedures developed by RWMP.
4. The laboratory, normally, will not offer any opinion/advise or recommendation with respect to the suitability or otherwise of the sample for any application or use. Conformities to a specification or Act will be mentioned as per the Act/specification, if required.
5. Under no circumstances RWMP accepts any liability or loss or damage caused by use or misuse of the test report. Liability is limited to the testing fee charged, in case of proven negligence by the laboratory.
6. RWMP shall not assume any responsibility for variation in test results of samples kept on hold for want of clarification.
7. Client may visit (If desired) our laboratory to witness the related tests.
8. This Test report is valid for two years from the date of issue of report, if there is no change in processes, raw materials etc.

Disposal Pathway/Opinions/Interpretations

Incineration After Treatment

END OF REPORT

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

Page 6 of 6

Rev. No. 01/ 04.08.2018

Towards sustainable growth

Site Address :

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REEL CIN:U74140AP1994PLC018833

CRM Bara Water reservoirs



**Utsav Kashyap**

Head Environment Clearance & Compliance TSL

TSJ/EMD/C-41/044/23**Date: 24.02.2023**

To,
Divisional Forest Officer,
Jamshedpur Forest Division,
Jamshedpur - 831001
East Singhbhum, Jharkhand

Sub: Payment of levies w.r.t. approved Site-Specific Wildlife Conservation Plan (SSWLCP) of Tata Steel Limited (Main Steel Plant Jamshedpur & CRM Bara Rolling Mills Complex)

Ref: Approval of SSWLCP by Principle Chief Conservator of Forest - Wildlife & Chief Wildlife Warden (PCCF-WL & CWW), Jharkhand vide letter no. 1945 dated: 13.12.2017.
Demand note raised of your good office vide letter no. 3182 dated: 23.12.2023

Dear Ma'am,

This has reference to the captioned subject and cited references. We would like to inform you that we have made the payment of Rs.2,00,00,000/- (Rupees Two Crores only) with respect to the approved SSWLCP of Tata Steel Limited (Main Steel Plant Jamshedpur & CRM Bara Rolling Mills Complex) and submitting the e-challan copy of the payment as per the demand note received from your good office.

You are requested to kindly acknowledge the same and place in your records.

Thanking you
Yours Faithfully

For Tata Steel Limited

Utsav Kashyap**Head Environment Clearance & Compliance (TSL)**

Encl: As above

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

Tel +91 657 6640363 P&T 8092087043 M e-mail utsav.kashyap@tatasteel.com

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

Mob no → 6207901848
→ 8092087043



e-Challan

Finance Department, Government of Jharkhand



Receiving Dept: Forest, Environment and Climate Change Department

Valid UpTo :-01/03/2023

Remitter's Copy

GRN:-2315871703

Date:- 20/02/2023 17:17:34



Receiving Office :- JSRFOR051-D.F.O.JAMSHEDPUR PRM.JSR.-FOREST

District :- Purbi Singhbhum

Treasury:- Jamshedpur

Year:-20/02/2023

to:- 28/02/2023

Head(8782)

Amount

₹

Head Details

878200103010101

FOREST REMITTANCES

20000000.00

Net Payable Amount:-

₹

20000000.00

Two Crore Rupees And Zero Paise Only

For Treasury Use Only(Jamshedpur)

Challan No and Date: 108 (20/02/2023)

Identity Proof(Registration No) - 000260

PAN No:-

Remitter Name:-

TATA STEEL LIMITED

Address :-

BISTUPUR,JAMSHEDPUR,831001

Remarks :-

Deposit Work

Treasury Officer Signature is not required.

FOR USE IN TREASURY LINK BANK

CHEQUE/DD No :-

650925 DT. 16/02/2023

Scroll No and (Date) :-

()

Bank Name :-SBI,JAMSEDPUR,DISTRICT TREASURY OFFICE

Note:- Bank Official are requested to update the receipt Online before Stamping.

Signature & Seal of Bank

LETTER NO.7/Plan 10 215/2016 अ०नि०(मु०का०नि०)-467
OFFICE OF THE CHIEF INSPECTOR OF FACTORIES, JHARKHAND, RANCHI.
 LABOUR BUILDING, DORANDA, RANCHI-834002

From,
 Chief Inspector of Factories, Jharkhand,
 Ranchi.

To,
 The occupier,
 M/s Tata Steel Limited,
 C.R.M. Complex, Bara
 Jamshedpur.

Ranchi, Dated 14/03/18

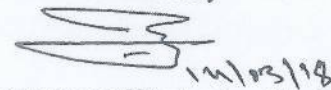
Sub: Recommendation of On-site Emergency Plan of M/s Tata Steel Limited, C.R.M. Complex, Bara, Jamshedpur.

Sir,

The On-site Emergency plan Submitted by you through Inspector of Factories, Jamshedpur Circle no.-1, Jamshedpur have been examined and the same is recommended subject to the following conditions: -

1. Regular Mock-drill shall be carried out in the factory at least once in every year and a detailed report should be made available to the Chief Inspector of Factories, Jharkhand, Ranchi office
 2. A detailed safety audit report conducted by an experienced outside agency shall be submitted along with details of health & safety policy of your factory.
 3. The On- site Emergency plan will be up-dated and revised if there is any modification in the plant, process or industrial activity.
 4. Adequate arrangement of medical/ relief facilities (first aid equipments etc.) should be provided and maintained in the emergency control room.
 5. Telephone number of key persons to be noted and displayed in the central control room.
- A copy of the recommended plan is enclosed herewith.

Yours Faithfully



Chief Inspector of Factories, Jharkhand,
 Ranchi

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC
CRM Bara, Dated 08/05/2014

SN	Name	Questions	Action Plan given in EIA	Present status of compliance	
01	Shri Suresh Sonthalia President, Singhbhum Chamber of Commerce	<p>We welcome the expansion of the project. People will get employment. Region will be developed. Permission for expansion of plant should be granted. Company is doing good work in the region.</p> <p>No accident took place here for the last two to three years. It is also well appreciated that Tata Steel is spending a good amount on environment front. We welcome the decision of plant expansion.</p>	Focus will be made on environment compliance.	CRM Bara plant is running with a focus on environmental compliance.	
02	Shri Pavan Tiwari, Bhuiadih	We welcome the expansion of the project. It is a welcoming step that the company is expanding. But the management has to pay special attention for the development of surrounding region. Attention may be given on basic problems of local people.	CSR Committee has been formed and action plan is under preparation. `	Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.	
03.	Shri Bharat Vasani Vice-President, Singhbhum Chamber of Commerce	We welcome the expansion of the project. Whatever the plans are made by the company to ensure that there should not be any pollution effect on environment with expansion of plant. Company has to spend on environmental protection as per its plan so that the environment can be protected.	Action plan prepared and will be implemented accordingly.	For environment protection, 29.2 Cr spent as capital cost. Details are as below:	
				Details	Capital Cost
				Pollution control measures (WWTP, ARP, fume extraction systems, etc.	12
				Provision of online environment monitoring equipment and display	2.26
				Rejuvenation of water bodies	6.94
				ARP environmental upgradation	7.49
				PL rinse scrubber	0.510
Total capital cost(Cr.)		29.20			

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC
CRM Bara, Dated 08/05/2014

04.	Shri Ramashray Prasad, INTUC	Company has to expand. Company should be developed. People should also get employment. Civic amenities should be developed in the surrounding area. Management should also focus and share information about how many permanent and temporary employees/ workers will be required.	Issues are being taken care under CSR activities.	Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. More than 50% employment has been given to local people.
05.	Shri Dev Sharan Singh Govindpur	Employment opportunities will increase with the expansion of the plant. Employment should be provided to the citizens/ locals residing within 10 km radius. Infrastructural facilities like drinking water, medical facilities for good health and other basic amenities should be provided by the company. Special attention should be given on environment and pollution.	Various environment protection measures have been taken by the company in the plant as per environment norms. Other issues have been taken care by CSR activities.	<p>Various environment protection measures have been taken by the company such as:</p> <ul style="list-style-type: none"> • Fume extraction system including scrubber in pickling line. • Bag filter in shot blasting machine. • Roof-top ventilation system. • Water sprinkling and mechanized sweeping machine • Effluent treatment plants for the treatment of oily and acidic waste and • STP is installed and operational for treatment of domestic water. • Rejuvenation of water bodies • Green belt development in and around plant. <p>Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. More than 50% employment has been given to local people.</p>

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC
CRM Bara, Dated 08/05/2014

06.	Shri Sonaram Bothra	Employment should be provided to local unemployed people. Priority should also be given in employment for SC and ST people. Management should give attention on poor people. We are not provided any facility.	Local employment has been given on top priorities as per their skill during construction work.	More than 50% employment has been given to local people.
07.	Shri Gunjan Yadav, Sitaramdera	Due to proposed expansion the traffic may increase. Cutting of trees may be involved. Development of green belt is recommended. Public pumps/ taps should be arranged in local areas by the company/ Unit. We will oppose the plant if water is not available. There is a tribal school in Babudih where 450 children study. Management should also pay attention on this. We are not against for the expansion of the plant. But at the same time company should also give attention on basic problems of local people.	Plantation has been done in & around premises (More than three thousand). Other issues have been considered in CSR activities.	<ul style="list-style-type: none"> Roads at the Bhuiyadih area are being widened. Other issues had been undertaken under CSR activities. Green belt at CRM Bara complex has been developed as per CPCB guidelines. Approx. 3.5 Ha area in and around plant is under plantation which is more than 33% of the plant area. We have planted 13235 no. of samplings in the above area till date. We have developed approx. 5m wide area of plantation around the plant as per CPCB guidelines. Density of plantation > 3000 plants/Ha which is more than CPCB guidelines. Public pumps/taps have been provided at Bhuiyadih and Babudih.
08.	Shri Chandra Sekhar Mishra, President Housing Development Committee	We welcome the expansion of the project. The facilities which were provided by Tata Steel 20years back, are not made available today. The management should provide infrastructure facilities like electricity, water, medical, education etc. at least in 5 kms radius area instead of 10 kms radius.	Issues are taken care under CSR activities.	<ul style="list-style-type: none"> Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC
CRM Bara, Dated 08/05/2014

09.	Shri Krishna Prasad Swarnakar, Babudih Basti	Babudih Basti is located in 1 km radius of the company. Waste is dumped by the plant in this area. Basic amenities should be provided to the citizens residing in 10 km radius. Pollution has increased a lot by which people are becoming sick.	Environment management plan under implementation will be strengthened for proposed expansion also.	Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. Various environment protection measures have been taken by the company such as: <ul style="list-style-type: none">• Fume extraction system including scrubber in pickling line.• Bag filter in shot blasting machine.• Roof-top ventilation system.• Water sprinkling and mechanized sweeping machine• Effluent treatment plants for the treatment of oily and acidic waste and• STP is installed and operational for treatment of domestic water.• Rejuvenation of water bodies• Green belt development in and around plant.
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Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC
CRM Bara, Dated 08/05/2014

10.	Shri Sudhir Singh, Secretary Singhbhum Chamber of Commerce	Expansion of plant is a good thing and we welcome the same. Sewage discharge is released without treatment into Kharkai and Swarnarekha rivers. This should be stopped immediately. Plant should be operated with pollution free environment.	Company will comply with CPCB norms	Various environment protection measures have been taken by the company such as: <ul style="list-style-type: none">• Effluent treatment plants for the treatment of oily and acidic waste and• STP is installed and operational for treatment of domestic water.• Rejuvenation of water bodies• Green belt development in and around plant.• Fume extraction system including scrubber in pickling line.• Bag filter in shot blasting machine.• Roof-top ventilation system.• Water sprinkling and mechanized sweeping machine are used for dust suppression.
11.	Shri Kaushal Prasad	We welcome the expansion of the plant. Employment will be generated after the expansion. Our income will increase. Our living standards will also improve. Plant Management should also give attention on basic problems of local people. Drinking water, education, medical and training programmes for women for their self-development etc. should be provided.	Issues are taken care under CSR activities. Local employment has been given on top priorities as per their skill.	Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. More than 50% employment has been given to local people.

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC
CRM Bara, Dated 08/05/2014

12.	Shri Navin Kumar Bagunnagar	Since Tata steel prefers global tender, contractors from other states will get their work with outside workers. This policy should not work out. The presentation shown by the company is fully false one. We are not opposing expansion of the plant, but expect that the quality of life of contract workers should also be improved.	Local area will be developed under CSR.	Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. More than 50% employment has been given to local people.
13.	Shri Shankar Soren Baridih	The entire area where plant is established belongs to Tribal. Management should aware and concentrate on the welfare of tribals. Training should be imparted to local youth. Facilities like water education, and health should be provided. If management gives attention on these issues, I don't have any objection for expansion of the plant. We are in favour of this plant.	A committee involving company and knowledgeable / qualified persons will be constituted to solve problems	Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.
14.	Shri Jeevan Kumar Sahu	I am in favour of expansion of the plant. Company has done a wonderful thing by afforestation work. Water, Electricity, Education and other works which will be beneficial for the public should be done.	CSR committee has been formed and action plan is under preparation.	Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.
15.	Shri Ram Sahni Babudih	Fishes (aquatic) are getting killed due to the acid water discharged from Tata Steel Company. River water is also contaminated leading to skin irritation. Polluted water should be controlled. Facilities like drinking water, education, electricity and medical facilities for health should be provided.	No wastewater is being discharged into the rivers. Environmental control measure has been already in place.	No wastewater is being discharged into the rivers. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Environmental control measure has been already in place. Basic needs are undertaken under CSR activities.

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC**CRM Bara, Dated 08/05/2014**

16.	Shri Goutam Lohar Bagunhatu	Water from the company is discharged in the river. This should be stopped. Employment is given to the outside people. Local people should get employment. Water, electricity, education and better medical facilities for good health should be provided. Nobody knows where women are being trained.	Wastewater treatment plant is already in place. No water discharge from our premises. Experts team study is under progress.	All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.
17.	Shri P.N.Dixit President, Builders Association	Expansion of the plant should invariably take place. I have been observing and experiencing for the last 52 years that whatever work done by Tata Steel was for the welfare of local people. Plant expansion should take place by paying special attention on environment.	Environment control measure has been already in place.	Environment pollution control measures are already in place. Various environment protection measures have been taken by the company such as: <ul style="list-style-type: none">• Fume extraction system including scrubber in pickling line.• Bag filter in shot blasting machine.• Roof-top ventilation system.• Water sprinkling and mechanized sweeping machine• Effluent treatment plants for the treatment of oily and acidic waste and• STP is installed and operational for treatment of domestic water.• Rejuvenation of water bodies• Green belt development in and around plant.

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC

CRM Bara, Dated 08/05/2014

18.	Shri Vijay Khan	Most of the people from the region are in favour of the expansion of plant. The expectations of people from the company management are not fulfilled by the unit. Contract labourers of Tata group of companies are not getting medical facility in MGM Hospital. One ITI should be opened for the local youth. Water, Electricity, Technical arrangements for higher education, and other basic facilities should be taken care. I am in favour of expansion of the plant.	CSR committee has been formed and action plan is under preparation.	Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.
19.	Shri Beli Bodhanwala Social worker Jamshedpur	Here everybody wish for the expansion of the plant. I too want the same. Proper planning should be done for controlling pollution effects on environment. Local problems should be resolved under CSR. Attention should be paid for improvement of standard of living.	CSR committee has been formed and action plan is under preparation.	Local problems are being resolved under CSR. Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. Environment pollution control measures are already in place.
20.	Shri Ranjit Bhattarcharya , Jamshedpur	Acid water released from the unit should be avoided. Traffic will also be a problem which should also be addressed. I am in favour of expansion of the plant.	Wastewater treatment plant is already in place. No water discharge from our premises. Experts team study is under progress.	No acid water is discharged from the unit/plant. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Roads at the Bhuiyadih and other area are being widened to cater increased traffic load.
21.	Shri Mahesh Santhalia, Jamshedpur	I am in favour of expansion of the plant. There should be control/ stoppage of discharge of polluted water from the plant. Drinking water facility should be provided for the local/ Basti people. Proper arrangement should be done to ensure that there is no pollution from the unit/plant.	Environment control measure has been already inplace.	Environment control measures are already in place. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Drinking water facility has been provided to local people.
22.	Smt. Santoshi Devi Babudih	Water facility should be provided in Babudih Basti. Even if a Tap is arranged for the public in the road side will also help to some extent.	CSR committee has been formed and action plan is under preparation.	Water facility has been provided in Babudih Basti under CSR activities.
23.	Shri Anand Bihari Dubey Bagunnagar	Earlier also Public Hearing was conducted here in the same place. Assurance was also given for solving / avoiding problems of local	A committee will be constituted with the company representatives	<ul style="list-style-type: none"> Local problems are being resolved under CSR. Basic needs such as Health, Sanitation (Domestic Toilets),

Public hearing commitments and their compliance status for expansion of 0.3 MTPA to 0.8 MTPA EC

CRM Bara, Dated 08/05/2014

		<p>people. The presentation which was shown by the management is fully false. There were five-five ponds here where this public hearing is being conducted. Now the ponds have been filled with slag. Due to this, the water levels at Bagunnagar, Bagunhatu, Babudih and Baridih Basti have gone down. There were thousands of trees. Ponds (Talab) were filled and all big-big trees were cut. The water levels here have gone down to 600-700 feet.</p> <p>Company management should arrange public water taps in the region. The polluted water from the company is directly sent to rivers. Outsiders have been provided works in the name of global tenders. I am not against the expansion of the plant. But the problems of the region should be given more concentration. A good school for the children, employment for the youth, drinking water in the surrounding areas, electricity, medical facilities, training for women for their self-employment, etc. should be provided. It should be ensured that there will not be any pollution impact on environment. There will be acute opposition if the management neglects the local problems and expands the plant.</p>	<p>considering view of local people. Efforts will be made to solve the problems in the surrounding areas. Special attention will be given for the community development activities. Direct and indirect employment opportunities will be provided.</p>	<p>Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.</p> <ul style="list-style-type: none"> • Work for rejuvenation of ponds completed which also cater rain-water harvesting. • Green belt in and around plant has been developed. 10850 no. of samplings have been planted till date. • No polluted water is discharged from the unit/plant. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. • More than 50% employment has been given to local people.
24.	Shri Feroz Ali Khan Dhatakidi	I am in favour of the expansion of the plant.		
25.	Shri A.K.Srivatsava	We all want that the plant should be expanded. Management also should concentrate on the local problems. Chances will increase for improving employment opportunities with the expansion of the company during this recession period.	Employment opportunities will be provided.	More than 50% employment has been given to local people.



EMD/C-38/135/15
September 16, 2015

Shubhanand Mukesh
Head Environment Management

District Commissioner, East Singhbhum
Office of the District Commissioner
JAMSHEDPUR- 831 001

Subject: Information of grant of Environmental Clearance for expansion of Cold Rolling Mill from 0.3 MTPA to 0.8 MTPA capacity at CRM Complex of Tata Steel Limited, Bara, Jamshedpur

Reference: MoEFCC Environmental Clearance letter no. J-11011/22/2013-IS II (I) dated September 15, 2015

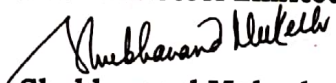
Dear Sir,

This has reference to the captioned subject and cited reference. It is to inform that the Ministry of Environment, Forests and Climate Change (MoEFCC), Govt. of India vide their letter no. J-11011/22/2013-IS II (I) dated September 15, 2015 has accorded Environment Clearance to M/s Tata Steel Limited for expansion of Cold Rolling Mill from 0.3 to 0.8 MTPA at CRM Complex at Bara, Jamshedpur in accordance with the EIA Notification, 2006 of the Environment (Protection) Act, 1986.

It is also to inform that copy of the said Environmental Clearance letter may also be seen at Company's Website at <http://www.tatasteelindia.com/corporate-citizen/environment-compliance-reports.asp>.

Thanking you,

Warm regards,
For Tata Steel Limited

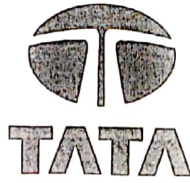

Shubhanand Mukesh
Head, Environment Management

Encl: Copy of Environmental Clearance letter


19/9/15

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
Tel 91 657 2424125 6644859 Fax 91 657 2427819 e-mail shubhanand.mukesh@tatasteel.com
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com



Shubhanand Mukesh
Head Environment Management

EMD/C-38/137/15
September 16, 2015

Block Development Officer
East Singhbhum
JAMSHEDPUR- 831 001

Subject: Information of grant of Environmental Clearance for expansion of Cold Rolling Mill from 0.3 MTPA to 0.8 MTPA capacity at CRM Complex of Tata Steel Limited, Bara, Jamshedpur

Reference: MoEFCC Environmental Clearance letter no. J-11011/22/2013-IS II (I) dated September 15, 2015

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Thanking you,

Warm regards,
For Tata Steel Limited

Shubhanand Mukesh

Shubhanand Mukesh
Head, Environment Management

Encl: Copy of Environmental Clearance letter

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
Tel 91 657 2424125 6644859 Fax 91 657 2427819 e-mail shubhanand.mukesh@tatasteel.com
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com



EMD/C-38/138/15
September 16, 2015

Shubhanand Mukesh
Head Environment Management

Special Officer
Jharkhand Notified Area Committee
East Singhbhum
JAMSHEDPUR- 831 001

Subject: Information of grant of Environmental Clearance for expansion of Cold Rolling Mill from 0.3 MTPA to 0.8 MTPA capacity at CRM Complex of Tata Steel Limited, Bara, Jamshedpur

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Thanking you,

Warm regards,

For Tata Steel Limited

Shubhanand Mukesh

Head, Environment Management

Encl: Copy of Environmental Clearance letter

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
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Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

Online Display Board at CRM Bara



POSSESSION NOTICE (UNDER SARFAESI ACT-2002) for Immoveable property

Securitisation and Reconstruction of Financial Assets & Exercise of Powers conferred under section 13(1)(c) of the Securitisation and Reconstruction of Financial Assets & Exercise of Powers Act, 2002 (SARFAESI Act, 2002) after calling upon the borrower to deposit the amount payable by him, the Securitisation Trust has taken possession of the property described herein under with rule 8 of the said Rules on the 17th day of September 2015.

Sl. No.	Date of Demand Notice & Possession Notice	Amount of Notice
1. First Notice	04.07.2014 & 17.09.2015	Rs. 15,87,717.00/- + int. w.e.f. 30.06.2014
2. Second Notice	30.01.2014 & 17.09.2015	Rs. 2.50 Lakhs + int. w.e.f. 30.06.2014

Sd/- Authorised Officer,
Bank of India.

Met office predicts heavy rain today

OUR BUREAU
Ranchi/Jamshedpur, Sept. 19: Intermittent showers and cloudy sky brought down temperatures in the steel city of Jamshedpur today with the weather office predicting heavy rain in isolated pockets of the state tomorrow.

According to senior Met official at Ranchi P.D. Sen, a marked low pressure zone over east central Bay of Bengal, coupled with an upper air circulation system, led to rains in Jamshedpur and other parts of Kolhan division comprising the districts of twin Singhbhum and Seraikela Kharsawan.

While Dhanbad experienced light showers, there was very little rain reported from various parts of capital Ranchi. "There was no significant rain anywhere else apart from Kolhan today. However, due to the influence of a low pressure system, there is a forecast of heavy rain, accompanied by thundershowers, at isolated places in the next 48 hours," said Sen.

A woman rides through heavy showers in Jamshedpur on Saturday.
Picture by Shikha Prasad

A duty officer at Jamshedpur Met office said the steel city saw temperatures come down marginally from 38°C to 32°C. "The temperature is expected to come down further to nearly 25°C after it rains some more tomorrow so per the forecast," he said.

Steel city residents were thankful for the respite though. "The weather was very sultry and humid in the last two days. Today's rain has certainly brought us some relief," said Rakesh Chandra, a hardware shopowner in Sakchi.

A. Wadood of Birsa Agriculture University said the prospect of rain tomorrow would definitely add a smile to the faces of farmers.

"There hasn't been much rain in September, which has been a cause of concern for agriculture experts, government officials and, most importantly, paddy and maize farmers. Heavy rain, if that happens, will help reduce the rain deficiency," he added.

Wadood said that from August till September 18, the north eastern part of the state, including capital Ranchi and Dhanbad, recorded 828mm rainfall against an average of 1,098mm, while the north western part of the state, including Sambalpur/Purgana, recorded 862mm rain against an average of 1,087mm.

South Charkhand, comprising Kolhan, recorded only 628mm rain against an average of 1,078mm.

RU seeks slap report

OUR CORRESPONDENT
Ranchi, Sept. 19: Ranchi University (RU) today shot a letter to the principal of Marwari Women's College Ranjit Singh, seeking an explanation into yesterday's episode of a professor slapping a girl student.

RU registrar A.K. Choudhary, acting at the behest of vice chancellor K.K. Pandey directed the principal to submit a report latest by Monday.

The professor, intermediate section in-charge Jyendra Kumar Singh, was replaced by another teacher, Kumar A.N. Shukla, yesterday field.

"I have issued a showcause notice to the professor, but we have not suspended him. We may take action after submitting the report to the varsity on Monday," the principal told The Telegraph.

The girl was waiting on the campus around 11am when Singh allegedly walked up to her and slapped her "rudely" why she was still there when classes had ended at 10:30am.

As the girl replied she was waiting for her parents, the professor said something on the lines of "you always do that" and slapped her.

But today, Singh refuted the allegations. "I had been told from him (it's a baseless allegation). I just told her not to be on the campus after class was over, but she argued with me," he said, adding he would respond to the showcause notice on Monday.

CISF complaint
CISF jawan K.K. Chaturvedi has filed a counter-complaint against the three deaf and mute teenagers of Bokaro, who accused him and his three colleagues of beating them up on Thursday night.

In his complaint filed at Sector IX police station of Bokaro steel city late last evening, Chaturvedi said that the boys had prevented them from performing government duty besides clicking their video without their permission.

DIA

Under Section 13(1)(c) of the SARFAESI Act, 2002, the Securitisation Trust has taken possession of the property described herein under with rule 8 of the said Rules on the 17th day of September 2015.

Sd/- Authorised Officer,
Bank of India.

National Highways Authority of India

(Ministry of Road Transport & Highways)

CORRIGENDUM
Reference NIT published on 15.09.2015 for a drawing of Sectional Highway Section of 1:100 (Scale 1:100) in the tender notice, "Construction for Authority Engineer Services" may be treated as "Corrigendum".
All other details remain the same.

NOT JUST ROADS, BUILDING A NATION

TATA STEEL

PUBLIC NOTICE

General Public is hereby informed that the Ministry of Environment, Forests and Climate Change (MoEFCC), Govt. of India vide their letter no. J-11011/22/2013-IS II (I) dated September 15, 2015 has accorded Environment Clearance to M/s Tata Steel Limited for expansion of Cold Rolling Mill from 0.3 to 0.8 MTPA at CRM Complex at Bara, Jamshedpur in accordance with the EIA Notification, 2006 of the Environment (Protection) Act, 1986.

General Public is further informed that copy of the said Environmental Clearance letter is available with the office of the Jharkhand State Pollution Control Board, Ranchi and may also be seen at Website of the MoEFCC at <http://moef.nic.in>.

This public notice is issued in compliance to the General Condition no. (xiv) of the Environmental Clearance letter.

प्रभात खबर \ सिटी

TATA STEEL

सार्वजनिक सूचना

सर्वसाधारण को एतत् द्वारा यह सूचना दी जाती है कि भारत सरकार के पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय ने पर्यावरण (संरक्षण) अधिनियम, 1986 की पर्यावरण प्रभाव आकलन (ईआईए) अधिसूचना, 2006 के अनुरूप 15 सितंबर, 2015 के अपने पत्र संख्या J-11011/22/2013-IS II (I) के जरिए मेसर्स टाटा स्टील लिमिटेड को बारा, जमशेदपुर स्थित सीआरएम कॉम्प्लेक्स की कोल्ड रॉलिंग मिल के 0.3 मिलियन टन प्रतिवर्ष से 0.8 मिलियन टन प्रतिवर्ष तक के विस्तारीकरण के लिए पर्यावरण स्वीकृति (इन्वायर्नमेंट क्लियरेंस) प्रदान की है।

सर्वसाधारण को यह भी सूचित किया जाता है कि उपरोक्त पर्यावरण स्वीकृति पत्र की प्रति झारखंड राज्य प्रदूषण नियंत्रण बोर्ड, राँची के कार्यालय में उपलब्ध है और इसे पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय के वेबसाइट <http://moef.nic.in> पर जाकर देखा जा सकता है।

यह सार्वजनिक सूचना पर्यावरण स्वीकृति पत्र की सामान्य शर्त संख्या (xiv) के अनुपालन हेतु जारी की जा रही है।

Sun, 20 September 2015

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