



EMD/C-38/81/21

May 25, 2022

Additional Principal Chief Conservator of Forests

(Eastern-Central) Regional Office (ECZ)

Ministry of Environment, Forests & Climate Change

2nd Floor, Headquarter-Jharkhand State Housing Board,

Harmu Chowk, Ranchi-834002

Subject: Submission of Six-Monthly (October 2021 to March 2022) EC Compliance Status of Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce (0.3 MTPA and 0.8 MTPA) Jamshedpur, District East Singhbhum, Jharkhand

Reference:

1. MoEF&CC EC for 0.3 MTPA vide Letter no F.NO J-11011/199/2007-IA (II) dated August 07, 2007.
2. MoEF&CC EC for 0.8 MTPA vide Letter no F.NO J-11011/22/2013-IA (II) I dated September 15, Sept 2015

Dear Sir,

This has reference to the captioned subject and cited references. It is to inform that we are herewith submitting six-monthly Compliance reports for the conditions stipulated in the Environmental Clearance of Cold Rolling Mill Complex (CRMC) to produce (0.3 MTPA and 0.8 MTPA) at CRM Bara, Jamshedpur, District East Singhbhum, Jharkhand for the period from **October 2021 to March 2022** along with monitoring data report for your kind consideration.

The copy of above compliance report is also being sent in soft format through email (ro.ranchi-mef@gov.in) for your kind perusal. Also copy of 0.8 MTPA EC Compliance

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

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Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com



has been uploaded on MoEFCC website on portal
<http://environmentclearance.nic.in/>.

Hope the above are in line with the statutory requirements.

Thanking you

Yours Faithfully

For Tata Steel Limited

Anoop Srivastava

Anoop Srivastava

Head, Environment Management

Encl:

1. Six-monthly compliance status report of 0.3 & 0.8 MTPA Environment Clearance
2. Monitoring and analysis reports for October 2021 to March 2022

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

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ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT

October 2021 to March 2022

**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 Status 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.	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. 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 such LPG emission inside plant premises.										
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.	Water consumption is metered and recorded regularly & the same is within prescribed limit for Steel Plants and as mentioned in EC. <table border="1"> <thead> <tr> <th>Requirement</th> <th>Limit</th> <th>UoM</th> <th>FY'21</th> <th>FY'22</th> </tr> </thead> <tbody> <tr> <td>Steel Plant</td> <td>5</td> <td>M3/T</td> <td>0.84</td> <td>0.78</td> </tr> </tbody> </table> 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. No groundwater is used. Domestic wastewater generated inside plant is being treated in STP having capacity of 25 m ³ /day.	Requirement	Limit	UoM	FY'21	FY'22	Steel Plant	5	M3/T	0.84	0.78
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Steel Plant	5	M3/T	0.84	0.78								
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.	Proper handling, storage, utilization, and disposal of all the solid waste generated are being ensured. <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.	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 13070 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. 										
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.										

Compliance Status 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:																
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.	<p>For environment protection, 27.8 Cr rupees spent as capital cost. Details are as below:</p> <table border="1"> <thead> <tr> <th>Details</th> <th>Capital Cost</th> </tr> </thead> <tbody> <tr> <td>Pollution control measures (WWTP, ARP, fume extraction systems, etc.)</td> <td>11.8</td> </tr> <tr> <td>Provision of online environment monitoring equipment and display</td> <td>1.06</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>27.8</td> </tr> </tbody> </table> <p>Recurring cost for upkeep the pollution control facilities till FY21 is 38.7 crores. In FY'22 recurring expenditure for environment protection is 6.03 Crore.</p>	Details	Capital Cost	Pollution control measures (WWTP, ARP, fume extraction systems, etc.)	11.8	Provision of online environment monitoring equipment and display	1.06	Rejuvenation of water bodies	6.94	ARP environmental upgradation	7.49	PL rinse scrubber	0.510	Total capital cost (Cr.)	27.8
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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.	<p>Standards issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 is not applicable for CRM Complex, Bara.</p> <p>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.</p>														
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	<p>Ambient air quality is being monitored for the following four locations in the plant premises.</p> <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 <p>All parameters as per NAAQS, 2009 standards are being monitored and monitoring reports are being</p>														

Compliance Status 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

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	Specific Conditions:	
	months.	submitted to JSPCB on monthly basis and CPCB and MoEF&CC on six monthly basis. Monitoring reports for all relevant parameters from Oct 2021 to Mar 2022 are attached in Annexure-I .
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.	The following equipment are provided to control Air Pollution: <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. However, fugitive dust emission monitoring is being carried out on regular basis, records are maintained and submitted to JSPCB and MoEF&CC. Monitoring reports for all relevant parameters from Oct 2021 to Mar 2022 is attached in Annexure-I.</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 waste water 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 waste water 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 plantation/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.
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.

Compliance Status 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

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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 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 ear muffs. Monitoring reports for noise from Oct 2021 to Mar 2022 are attached in Annexure-I .																																																												
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. Occupational health surveillance has been conducted for permanent workers.																																																												
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.	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): <table border="1" data-bbox="813 1249 1468 1657"> <thead> <tr> <th>Interventions</th> <th>FY18</th> <th>FY19</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> </tr> </thead> <tbody> <tr> <td>Health</td> <td>2.32</td> <td>66.83</td> <td>1.49</td> <td>0.52</td> <td>0.64</td> </tr> <tr> <td>Drinking Water</td> <td>0.02</td> <td>0.07</td> <td>0.08</td> <td>0.01</td> <td>0.02</td> </tr> <tr> <td>Education</td> <td>0.85</td> <td>1.46</td> <td>1.84</td> <td>1.33</td> <td>2.98</td> </tr> <tr> <td>Livelihood- Skill Development</td> <td>1.59</td> <td>1.55</td> <td>1.56</td> <td>1.45</td> <td>1.21</td> </tr> <tr> <td>Sports</td> <td>4.43</td> <td>6.68</td> <td>4.7</td> <td>13.25</td> <td>12.34</td> </tr> <tr> <td>Rural Infrastructure</td> <td>2.05</td> <td>-</td> <td>0.02</td> <td>1.35</td> <td>3.06</td> </tr> <tr> <td>Environment</td> <td>2.14</td> <td>2</td> <td>2.72</td> <td>2.78</td> <td>4.00</td> </tr> <tr> <td>Ethnicity</td> <td>2.73</td> <td>4.54</td> <td>5.27</td> <td>1.67</td> <td>4.77</td> </tr> <tr> <td>Total</td> <td>16.13</td> <td>83.13</td> <td>17.68</td> <td>22.36</td> <td>29.02</td> </tr> </tbody> </table>	Interventions	FY18	FY19	FY20	FY21	FY22	Health	2.32	66.83	1.49	0.52	0.64	Drinking Water	0.02	0.07	0.08	0.01	0.02	Education	0.85	1.46	1.84	1.33	2.98	Livelihood- Skill Development	1.59	1.55	1.56	1.45	1.21	Sports	4.43	6.68	4.7	13.25	12.34	Rural Infrastructure	2.05	-	0.02	1.35	3.06	Environment	2.14	2	2.72	2.78	4.00	Ethnicity	2.73	4.54	5.27	1.67	4.77	Total	16.13	83.13	17.68	22.36	29.02
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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.	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/																																																												

Compliance Status 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:		
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 2021 to March 2022

**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 Status 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.	The report of Wildlife conservation plan was submitted to PCCF (WL) Government of Jharkhand vide letter no. EMD/C-41/128/16 dated August 22, 2016 and approved by PCCF (WL) Government of Jharkhand vide letter no. 1945 dated 13th Nov 2017. The same will be implemented as directed by Department of Forest, Jharkhand.
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.	<p>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 above has been connected to JSPCB.</p> <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>Monitoring reports for all relevant parameters from October 2021 to March 2022 is attached in Annexure-I.</p> <p>We have upgraded pollution control equipment of Acid regeneration plant (ARP) for reduction of PM emission. Since March 2022, PM is below 50 mg/Nm³.</p>
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.	<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>
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 th May, 2008 are not applicable for CRM Complex, Bara.

Compliance Status 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

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.										
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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. Green Belt has been developed around the pond in an area of 0.4 acres with native species in the surrounding. 										
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.	<p>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.</p> <p>Domestic wastewater generated inside plant is being treated in STP having capacity of 25 m³/day.</p>										
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.	<p>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.</p> <p>Ground water monitoring is conducted monthly and monitoring reports are being submitted regularly. Ground water monitoring report for Oct 2021 to Mar 2022 are attached in Annexure-I.</p>										
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.</p>										
x	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	<ul style="list-style-type: none"> Solid waste generated at CRM Bara is being 100% utilized and sustained through internal and external applications. 										

Compliance Status 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

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 March 14, 2018. 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.	<ul style="list-style-type: none"> • 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 13070 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 border="1" data-bbox="775 1585 1465 1973"> <thead> <tr> <th>Interventions</th> <th>FY18</th> <th>FY19</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> </tr> </thead> <tbody> <tr> <td>Health</td> <td>2.32</td> <td>66.83</td> <td>1.49</td> <td>0.52</td> <td>0.64</td> </tr> <tr> <td>Drinking Water</td> <td>0.02</td> <td>0.07</td> <td>0.08</td> <td>0.01</td> <td>0.02</td> </tr> <tr> <td>Education</td> <td>0.85</td> <td>1.46</td> <td>1.84</td> <td>1.33</td> <td>2.98</td> </tr> <tr> <td>Livelihood- Skill Development</td> <td>1.59</td> <td>1.55</td> <td>1.56</td> <td>1.45</td> <td>1.21</td> </tr> <tr> <td>Sports</td> <td>4.43</td> <td>6.68</td> <td>4.7</td> <td>13.25</td> <td>12.34</td> </tr> <tr> <td>Rural Infrastructure</td> <td>2.05</td> <td>-</td> <td>0.02</td> <td>1.35</td> <td>3.06</td> </tr> <tr> <td>Environment</td> <td>2.14</td> <td>2</td> <td>2.72</td> <td>2.78</td> <td>4.00</td> </tr> <tr> <td>Ethnicity</td> <td>2.73</td> <td>4.54</td> <td>5.27</td> <td>1.67</td> <td>4.77</td> </tr> <tr> <td>Total</td> <td>16.13</td> <td>83.13</td> <td>17.68</td> <td>22.36</td> <td>29.02</td> </tr> </tbody> </table>	Interventions	FY18	FY19	FY20	FY21	FY22	Health	2.32	66.83	1.49	0.52	0.64	Drinking Water	0.02	0.07	0.08	0.01	0.02	Education	0.85	1.46	1.84	1.33	2.98	Livelihood- Skill Development	1.59	1.55	1.56	1.45	1.21	Sports	4.43	6.68	4.7	13.25	12.34	Rural Infrastructure	2.05	-	0.02	1.35	3.06	Environment	2.14	2	2.72	2.78	4.00	Ethnicity	2.73	4.54	5.27	1.67	4.77	Total	16.13	83.13	17.68	22.36	29.02
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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-II .
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.
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.	<p>Ambient air quality is being monitored for the following four locations in the plant premises.</p> <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 <p>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.</p> <p>Monitoring reports for all relevant parameters from Oct 2021 to Mar 2022 are attached in Annexure-I.</p>
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.	<p>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.</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>

Compliance Status 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

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 2021 to Mar 2022 are attached in Annexure-I .																																																												
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 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.																																																												
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 border="1" data-bbox="775 1267 1465 1655"> <thead> <tr> <th>Interventions</th> <th>FY18</th> <th>FY19</th> <th>FY20</th> <th>FY21</th> <th>FY22</th> </tr> </thead> <tbody> <tr> <td>Health</td> <td>2.32</td> <td>66.83</td> <td>1.49</td> <td>0.52</td> <td>0.64</td> </tr> <tr> <td>Drinking Water</td> <td>0.02</td> <td>0.07</td> <td>0.08</td> <td>0.01</td> <td>0.02</td> </tr> <tr> <td>Education</td> <td>0.85</td> <td>1.46</td> <td>1.84</td> <td>1.33</td> <td>2.98</td> </tr> <tr> <td>Livelihood Skill Development</td> <td>1.59</td> <td>1.55</td> <td>1.56</td> <td>1.45</td> <td>1.21</td> </tr> <tr> <td>Sports</td> <td>4.43</td> <td>6.68</td> <td>4.7</td> <td>13.25</td> <td>12.34</td> </tr> <tr> <td>Rural Infrastructure</td> <td>2.05</td> <td>-</td> <td>0.02</td> <td>1.35</td> <td>3.06</td> </tr> <tr> <td>Environment</td> <td>2.14</td> <td>2</td> <td>2.72</td> <td>2.78</td> <td>4.00</td> </tr> <tr> <td>Ethnicity</td> <td>2.73</td> <td>4.54</td> <td>5.27</td> <td>1.67</td> <td>4.77</td> </tr> <tr> <td>Total</td> <td>16.13</td> <td>83.13</td> <td>17.68</td> <td>22.36</td> <td>29.02</td> </tr> </tbody> </table>	Interventions	FY18	FY19	FY20	FY21	FY22	Health	2.32	66.83	1.49	0.52	0.64	Drinking Water	0.02	0.07	0.08	0.01	0.02	Education	0.85	1.46	1.84	1.33	2.98	Livelihood Skill Development	1.59	1.55	1.56	1.45	1.21	Sports	4.43	6.68	4.7	13.25	12.34	Rural Infrastructure	2.05	-	0.02	1.35	3.06	Environment	2.14	2	2.72	2.78	4.00	Ethnicity	2.73	4.54	5.27	1.67	4.77	Total	16.13	83.13	17.68	22.36	29.02
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ix	<p>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.</p>	<p>For environment protection, 27.8 Cr rupees spent as capital cost. Details are as below:</p> <table border="1" data-bbox="772 338 1406 752"> <thead> <tr> <th>Details</th> <th>Capital Cost</th> </tr> </thead> <tbody> <tr> <td>Pollution control measures (WWTP, ARP, fume extraction systems, etc.</td> <td>11.8</td> </tr> <tr> <td>Provision of online environment monitoring equipment and display</td> <td>1.06</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>27.8</td> </tr> </tbody> </table> <p>Recurring cost for upkeep the pollution control facilities till FY21 is 38.7 crores. In FY'22 recurring expenditure for environment protection is 6.03 Crore.</p>	Details	Capital Cost	Pollution control measures (WWTP, ARP, fume extraction systems, etc.	11.8	Provision of online environment monitoring equipment and display	1.06	Rejuvenation of water bodies	6.94	ARP environmental upgradation	7.49	PL rinse scrubber	0.510	Total capital cost(Cr.)	27.8
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x	<p>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.</p>	<p>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 September 16, 2015.</p>														
xi	<p>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; PM₁₀, SO₂, 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.</p>	<p>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.</p> <p>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/</p> <p>Monitoring data is being displayed near the main gate of the company in the public domain. Ambient air quality and Stack monitoring data display board placed at the main gate.</p>														

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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.	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.
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'21 has been submitted to JSPCB through hard and soft copies vide letter no. EMD/C-23/248/21 dated September 22, 2021. • 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.</p> <p>Copy of these have been sent to the Regional Office, MoEF&CC at Ranchi vide letter no. EMD/C38/136/15 dated September 16th, 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 Status 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

xviii	<p>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.</p>	<p>We are abiding by all the applicable legal requirements and Statutory clearances.</p> <ol style="list-style-type: none"> 1. Consent to Operate vide letter ref No. JSPCB/HO/RNC/CTO-10350692/2022/109 Dated on 28-01-2022.; valid till December 31, 2026. 2. Hazardous and other wastes authorization vide ref no. JSPCB/HO/RNC/HWM-2107018/2018/37 dated May 05, 2018 valid till May 04, 2023. 3. Bio-Medical Waste Authorization for CRM Bara First Aid Centre, CRM Bara, Tata Steel vide Ref No. JSPCB/RO/JSR/BMW-7533472/2020/16 dated March 16, 2020. 4. Public Liability Insurance Policy for Tata Steel under the Public (Insurance) Liability Act, 1991 vide Policy No: 4007/239762191/00/000 valid till 31 December 2022. <p>Copies of the above are enclosed in Annexure-III.</p>
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MONITORING & ANALYSIS REPORT

October 2021 to March 2022

**Cold Rolling Mill Complex
(CRMC), Jamshedpur**

**ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR**

ANNEXURE-I
CRM BARA EFFLUENT QUALITY REPORT FROM OCT 2021 to MAR 2022

		Parameter	Unit	Statutory Limit	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
	Drain at Gate No-1	pH	-	6.0-8.5	8.2	8.2	NA	NA	NA	NA
		Total Suspended solids	mg/L	100.0	12.0	12.0	NA	NA	NA	NA
		Oil & Grease	mg/L	10.0	1.20	1.20	NA	NA	NA	NA
		Hexavalent Chromium, Cr+6	mg/L	0.1	<0.05	<0.05	NA	NA	NA	NA
		Biological Oxygen Demand, BOD	mg/L	30.0	8.3	8.0	NA	NA	NA	NA
		Chemical Oxygen Demand, COD	mg/L	250.0	80	80	NA	NA	NA	NA
	Drain at Gate No-2	pH	-	6.0-8.5	7.8	7.8	7.5	7.6	7.7	7.5
		Total Suspended solids	mg/L	100.0	15.0	15.0	<10	<10	<10	<10
		Oil & Grease	mg/L	10.0	1.20	1.20	1.20	<1	1.2	1.2
		Hexavalent Chromium, Cr+6	mg/L	0.1	<0.05	<0.05	0.08	0.01	0.01	0.01
		Biological Oxygen Demand, BOD	mg/L	30.0	7.3	7.0	6.4	7.0	6.6	9.7
		Chemical Oxygen Demand, COD	mg/L	250.0	65	65	148	112	189	56

NOTE

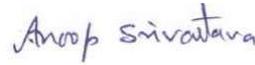
Standards applicable as per Environment (Protection) (Third Amendment) Rules, 2012 issued in Gazette of India Notification vide No.: G. S. R. 277 (E) dated March 31, 2012.

This test report is generated by NABL Accredited TATA STEEL LIMITED JSR EMD LAB having accreditation No.TC-8363 dated 21.02.2022 having validity till 20.02.2024.

NA: No flow of water. Process water released from Drain No. 2 after treatment.



Sr. Manager
Monitoring and Analysis



Head
Environment Monitoring, Testing & Analysis
(TSJ)



ANNEXURE-I

AMBIENT AIR QUALITY REPORT FOR CRM BARA FROM OCT 2021 to MAR 2022

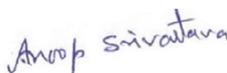
Sl. No.	Parameter	UoM	Standard	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1
				Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	100	107.0	181.3	206.4	194.0	189.0	227.0
2	Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	60	44.0	92.7	105.5	96.0	79.0	85.0
3	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	80	13.0	18.8	22.5	26.0	28.0	25.0
4	Nitrogen Dioxide (NO _x)	$\mu\text{g}/\text{m}^3$	80	14.0	25.6	42.8	42.0	39.0	34.0

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


Sr. Manager
Monitoring and Analysis


Head
Environment Monitoring, Testing & Analysis (TSJ)



ANNEXURE-I

AMBIENT NOISE LEVEL MONITORING REPORT FOR CRM BARA FROM OCT 2021 to MAR 2022



TC- 8363

Sl.No.	Sampling Location	Oct-21		Nov-21		Dec-21		Jan-22		Feb-22		Mar-22	
		Day	Night										
		dB(A) Leq		dB(A) Leq		dB(A) Leq		dB(A) Leq		dB(A) Leq		dB(A) Leq	
1	Entrance Main Gate	68.0	63.0	67.3	68.2	62.4	71.2	69.7	63.7	69.9	69.2	69.3	69.5
2	Circle Near Main Gate	61.0	65.0	58.9	67.1	58.1	73.6	63.1	62.1	60.1	67.1	67.2	67.2
3	Circle Near Gate No-1	62.0	64.0	56.7	66.4	56.8	70.8	59.3	64.6	59.5	69.4	64.6	68.4
4	Gate No-1	60.0	68.0	60.2	69.0	57.3	72.6	59.8	61.2	60.5	65.1	67.1	65.2
5	Gate No-2	59.0	65.0	55.1	67.2	58.5	74.2	62.4	60.8	62.4	68.3	63.7	68.2

NOTE

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

This test report is generated by NABL Accredited TATA STEEL LIMITED JSR EMD LAB having accreditation No.TC-8363 dated 21.02.2022 having validity till 20.02.2024.

Sr. Manager
Monitoring and Analysis

Head
Environment Monitoring, Testing & Analysis (TSJ)



ANNEXURE-I

Tata Steel Limited
Environmental Monitoring Report of CRM Bara
Fugitive Emission Monitoring Report from Oct 2021 to Mar 2022

S.No.	Location	UoM	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
1	Near RCPH Pump House	mg/m3	0.71	0.47	0.34	0.49	0.59	0.43
2	Near Pickling Line Exit		0.58	0.62	0.56	0.45	0.44	0.50
3	Near Mills Stand		0.42	0.32	0.41	0.25	0.51	0.54
4	Near Mill Stand outside		0.47	0.41	0.48	0.44	0.45	0.46
5	1 Mtr. Away From Compressor # 1		0.50	0.95	0.42	1.02	0.92	0.92
6	1 Mtr. Away From Compressor # 2		0.61	1.03	0.49	1.06	0.88	1.04
7	1 Mtr. Away From Compressor # 3		0.65	0.97	0.44	0.56	0.23	0.81
8	1 Mtr. Away From Compressor # 4		0.53	0.78	0.43	1.00	0.34	0.71
9	Inside Room Compressor		0.54	0.86	0.45	0.87	1.02	0.82
10	Inside Boiler House		0.49	0.70	0.67	0.77	0.62	0.57
11	ARP Pump Room		0.70	0.54	0.67	0.58	0.54	0.45
12	Sticher Area		0.58	0.78	0.22	0.63	0.61	0.60
13	Rince Tank Area		0.52	0.81	0.34	0.65	0.34	0.64
14	Main Office		0.45	0.48	0.39	0.40	0.40	0.38
15	Near Gate # 1		0.83	0.45	0.37	0.60	0.46	0.59
16	Near Gate # 2		0.80	0.56	0.41	0.79	0.93	0.56
17	Coil Receiving Area		0.61	0.59	0.48	0.48	0.53	0.39

Note:

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

N/0- NOT IN OPERATION

Sr. Manager
Steel Making, CRM Bara & Tubes Division

Head
Monitoring, Testing and Analysis



ANNEXURE-I



Tata Steel Limited
Environmental Monitoring Report of CRM Bara
Manual Stack Emission Monitoring Report from Oct 2021 to Mar 2022

TC- 863

Month	Location	UoM	Standard	Parameter	Result
Oct-21	Boiler	mg/Nm ³	100	PM	8.4
	ARP				106
	Mills				10.9
Nov-21	Boiler				5.0
	ARP				137
	Mills				5.6
Dec-21	Boiler				5.2
	ARP				78.0
	Mills				5.3
Jan-22	Boiler				<5
	ARP				78.0
	Mills				5.6
Feb-22	Boiler				5.1
	ARP				78.0
	Mills				-
Mar-22	Boiler	8.5			
	ARP	7.96*			
	Mills	<5			

Note:

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

* After Commissioning of new pollution control devices at ARP (scrubber)

Sr. Manager
Env. Online Instruments

Head
Monitoring, Testing and Analysis



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 99:2006
C No FSS70987 | C No EMS 570797 | C No OHS 570500 | 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											

R. D. Parmar
Authorized Signatory
(Rajkumar Parmar - Dy. Manager)



Page 1 of 6

Rev. No. 01/ 04.08.2018

Site Address :

Ramky Enviro Engineers Limited
Unit : Rajasthan Waste Management Project, TSDF-Udaipur
Survey No- 1018/13, Village-Gudli,
Zinc Smelter Chauraha, Debari Railway Station Road,
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



Accredited Laboratory
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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

Towards sustainable growth

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	

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

R. Parmar
Authorized Signatory
(Rajkumar Parmar - Dy. Manager)



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REEL CIN:U74140AP1994PLC018833



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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 FSC/0907 | 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

Towards sustainable growth

Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

Site Address :

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Email : nwmp@ramky.com

MANAGING HAZARDOUS WASTE



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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

Towards sustainable growth

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

R. Parmar
Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

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MANAGING HAZARDOUS WASTE



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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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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

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 23rd 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"

R. Parmar
Authorized Signatory
(Rajkumar Parmar - Dy. Manager)

Page 5 of 6

Rev. No. 01/ 04.08.2018

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Udaipur - 313024 (Raj.) Tel. : +91-294-2802032, 2658253-54
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C No FS570987 | C No EMS 570797 | C No OHS 570500 | 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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- 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

R. Parmar
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 Grandiosa, Floor- 10/12, Dimple Tower, Connaught Place, New Delhi-110028
Rajkibadi, Hyderabad-500032



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Ramky Enviro Engineers Limited

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

COMPREHENSIVE ANALYSIS REPORT

Towards sustainable growth

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

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											

R. Parmar
Authorized Signatory
(Rajkumar Parmar - Dy. Manager)



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Unit : Rajasthan Waste Management Project, TSDF-Udaipur
Survey No- 1018/13, Village-Gudli,
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Email : rwmpr@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



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 F8570987 | 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.	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

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MANAGING HAZARDOUS WASTE



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COMPREHENSIVE ANALYSIS REPORT

Towards sustainable growth

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

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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	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

Towards sustainable growth

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(Rajkumar Parmar – Dy. Manager)



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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

Towards sustainable growth

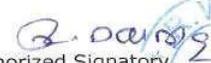
Safety Instructions for Handling of Hazardous Waste (if any) -

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 23rd 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"


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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

Incineration After Treatment

END OF REPORT


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ANNEXURE-II

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	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. 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.	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, 16 Cr spent as capital cost. Details are as below: <table border="1" data-bbox="1512 938 2056 1257"> <thead> <tr> <th>Details</th> <th>Capital Cost</th> </tr> </thead> <tbody> <tr> <td>Provision of online environment monitoring equipment and display</td> <td>1.06</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>0.51</td> </tr> <tr> <td>Total capital cost (Cr.)</td> <td>16</td> </tr> </tbody> </table>	Details	Capital Cost	Provision of online environment monitoring equipment and display	1.06	Rejuvenation of water bodies	6.94	ARP environmental upgradation	7.49	PL rinse scrubber	0.51	Total capital cost (Cr.)	16
Details	Capital Cost															
Provision of online environment monitoring equipment and display	1.06															
Rejuvenation of water bodies	6.94															
ARP environmental upgradation	7.49															
PL rinse scrubber	0.51															
Total capital cost (Cr.)	16															
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												

ANNEXURE-II

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
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>people.</p> <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.</p> <p>More than 50% employment has been given to local people.</p>
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.

ANNEXURE-II

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
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 13070 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 20 years 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.	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.
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.

ANNEXURE-II

**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
				<ul style="list-style-type: none"> • 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.
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.

ANNEXURE-II

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
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 waste water is being discharged into the rivers. Environmental control measure has been already in place.	No waste water 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.

ANNEXURE-II

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
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.	Waste water 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.
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.

ANNEXURE-II

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
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.	Waste water 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 in place.	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 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	A committee will be constituted with the company representatives considering view of local people. Efforts will be made to solve the problems in the surrounding areas. Special attention will be	<ul style="list-style-type: none"> 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

ANNEXURE-II

**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
		<p>and all big-big trees were cut. The water levels here have gone down to 600-700 feet. 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>given for the community development activities. Direct and indirect employment opportunities will be provided.</p>	<p>undertaken under CSR activities of Tata Steel Ltd.</p> <ul style="list-style-type: none"> • We are not disposing slag and fly ash in the pond. • Work for rejuvenation of ponds completed which also cater rain-water harvesting. • Due to rejuvenation of ponds, ground water table has also increased. • Green belt in and around plant has been developed. 13070 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 Dhatakidih	I am in favour of the expansion of the plant.		No Concerns raised.
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.

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

Annexure-III



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-10350692/2022/109

Dated : 2022-01-28

Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Application (s) dated 2021-08-30 of Cold Rolling Mills Complex, Bara of Tata Steel Ltd, Occupier Name :T V Narendran for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act,1981..

2. Documents Relied Upon:

(a) The content of Environment Clearance (EC) for CRM Bara complex – 0.3 MTPA issued vide letter No. F.No.- J-1101/199/2007-IA II (I), dated 07.08.2007 with six-monthly compliance report.

(b) The Content of consent-to- Establish (CTE)for CRM Bara complex – 0.3 MTPA, memo. no. 867 Ranchi Dated 25.03.2011;

(c) The content of Environmental Clearance (EC) issued vide letter No. F.No.-J-11011/22/2013-IA II(I), Dated 15.09.2015 with six monthly compliance report;

(d)The content of Consent-to-Establish (CTE), Ref No. G-5592 Ranchi, dated 09.12.2015.

(e) The content of Consent-to-Operate (CTO), vide Ref No. JSPCB/HO/RNC/CTO-1031289/2016/1092 Dated : 2016-12-31 for Cold Rolling Mill - 0.8 MTPA valid till 31.12.2021 [126 Crore] with compliance report;

(f) The content of information that NOC from Central ground water authority / State Ground Water Authority regarding extraction / consumption of ground water is not applicable on us as we are not using ground water either for industrial & domestic purpose.

(g) The content of information from unit that online data for both CAAQMS & CEMS is being transferred regularly from the CRM Bara to JSPCB Website.

(h) The content of inspection report, vide dated 06.10.2021 of Regional Officer, Regional Office - cum-Laboratory, Jamshedpur of the Board.

(g) The content of verification report of Environmental Clearance (EC) issued vide letter No. F.No.-J-11011/22/2013-IA II(I), Dated 15.09.2015 of Regional officer, JSPC Board, Jamshedpur signed 08.12.2021;

(h) The content of Registered land lease deed no. 6117/5361/2005 dated 20.09.2005;

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -Ward No. 11, JNAC , P S -Bara , District -EAST SINGHBUM , as follows:

Project	Site-Area	Investment (Rs)	Product & Capacity	Period of CTO
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	Plot Nos.	Area			Date of issue To
Before Expansion	As per Land deed	8.312 Ha	41984 lakhs or 419.84 Crores	Cold Rolling Mill - 0.8 MTPA	31/12/2026

(A) Specific Conditions:

1. That, the occupier shall establish and maintain at least four ambient air quality monitoring stations in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_X are anticipated in consultation with CPCB.
2. That, the occupier shall control secondary fugitive emissions within the latest permissible limits issued by ministry and regularly monitored.
3. That, the occupier shall keep the overall noise levels in and around the plant area within the prescribed limits by providing noise control measures including acoustic hoods, silencers, enclosure etc. on all sources of noise generation.
4. That, the occupier shall implement recommendations made to the steel plants in the Corporate Responsibility for Environment Conservation (CREP) programme..
5. That, the occupier shall submit six monthly compliance report of conditions imposed in Environmental Clearance to the Board regularly.
6. That, the occupier shall upgrade, maintain and operate pollution control equipments regularly to meet emission standard.
7. That, the occupier shall operate and maintain ETP and STP regularly.
8. That, the occupier shall interlock the production with pollution control equipments.
9. That, the occupier shall construct pucca road inside the factory and shall maintain good house keeping.
10. That, the occupier shall install online monitoring system for ambient air, all stacks, effluent and shall make data connectivity to CPCB/SPCB and assure the transference of the data;
11. That, the occupier shall submit applications for renewal of consent under section 25/26 of the Water Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expiry of this consent i.e. 31.12.2026, with requisite

fee and documents showing compliance of all of the above conditions.

12. That, the occupier shall comply with all the conditions of Environmental Clearance (EC) granted vide letter No. F.No.-J-11011/22/2013-IA II(I), Dated 15.09.2015.

13. That, the occupier shall submit the compliance of CTO conditions every year to the Board.

(B) General Conditions :

(1) That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO ₂), µg/m ³	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO ₂), µg/m ³	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM ₁₀ , µg/m ³	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM _{2.5} , µg/m ³	Annual 24 hours	40 60	40 60
5.	Ozone(O ₃), µg/m ³	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m ³	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m ³	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH ₃) µg/m ³	Annual 24 hours	100 400	100 400
9.	Benzene (C ₆ H ₆) µg/m ³	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m ³	Annual	01	01
11.	Arsenic (As) ng/m ³	Annual	06	06
12.	Nickel (Ni) ng/m ³	Annual	20	20

**Note : Serial no. 1 to 4 – Mandatory
Serial no. 5 to 12 As applicable for specific type of industry.**

- (2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

S N	Parameter	Standard
1	Particulate Matter	100 g/m ³

- (3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

- (4) That, the occupier shall dispose of solid wastes as follows:

S N	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In TSDF
2	Hazardous Non-Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

- (5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.
- (6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

- (10) That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/Ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.
- (11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ occupier.
- (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
- (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
4. **That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.**
5. **That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.**
6. **The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.**
7. **The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.**

This is issued with the approval of the Competent authority

**Yatindra
Kumar Das** Digitally signed by
Yatindra Kumar Das
Date: 2022.01.28
21:14:12 +05'30'

(Y. K. Das)

Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-
10350692/2022/109

Dated : 2022-01-28

Copy to: M/s Cold Rolling Mills Complex, Bara of Tata Steel Ltd., At-Cold Rolling Mills Complex (CRMC), Bara, Jamshedpur/ Director of Industry, Government of Jharkhand, Ranchi/ Deputy Commissioner, East Singhbhum/ Chief Inspector of Factories, Ranchi/ Regional Office-cum-Laboratory, Jamshedpur for information & necessary action. He is directed to submit the compliance of CTO conditions every year.

**Yatindra
Kumar Das** Digitally signed by
Yatindra Kumar Das
Date: 2022.01.28
21:13:48 +05'30'

(Y. K. Das)

Member Secretary



JHARKHAND STATE POLLUTION CONTROL BOARD
T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004
Phone.:2400852, 2400851, Fax:0651- 2400850 www.jspcb.org

FORM 2
[See rule 6(2)]

FORM FOR GRANT OR RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. No. of authorization and date of issue: JSPCB/HO/RNC/HWM-2107018/2018/37 05/05/2018
2. Reference of application(No. and date): 2107018 17/01/2018
3. Cold Rolling Mills Complex, Bara of Tata Steel Ltd of T V Narendran is hereby granted an authorisation based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilisation, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at Cold Rolling Mills Complex (CRMC), Bara, Jamshedpur

Details of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc.	Quantity(ton/annum)
1	Used /Spent Oil	Manual	65 T/year
2	Wastes/Residues Containing Oil	Manual	300 T/year
3	Sludge in Liquid	Manual	7000 T/year
4	Sludge in Solid form ARP	Manual	5000 T/year
5	Discarded barrels, container	Manual	50 T/year
6	Sept in exchange resin containing	Manual	0.5 T/year
7	ETP sludge	Manual	300 T/year
8	Oil/ Grease skimming residues	Manual	200/year
9	Filter/ filter materials containing organic liquid	Manual	0.5 T/year

(1) The authorisation shall be valid for a period of 5 years

(2) The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A General conditions of authorisation:

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B Specific conditions:

- i. That, the occupier shall comply the provisions of the Environment Protection Act and Rules.
- ii. That, the authorization shall be produced at the time of inspection.
- iii. That, the occupier authorized shall not rent/sell or otherwise transport the H/W without obtaining prior permission of the Board.
- iv. That, any un-authorization change shall constitute a breach the authorization.
- v. That, it is the duty of authorized person to take prior permission of the Board to close down the facility.
- vi. That, the renewal of authorization shall be made as laid down in the rules.
- vii. That, any other condition for compliance as per the guidelines issued by the MoEF for CPCB.
- viii. That, the occupier shall submit annual return for the financial year before 30th June, every year.
- ix. That, the occupier shall comply all the conditions.
- x. That, the occupier shall submit quarterly and annual information on hazardous wastes consumed its source, products generated or resources conserved (specifying the details like type and quantity of resources conserved) to the concerned SPCB.
- xi. That, the occupier shall maintain a Pass Book issued by concerned SPCB wherein the following details of each procurement of SPL shall be entered:
 - Address of sender
 - Date of dispatch
 - Quantity procured
 - Seal & signature of the sender
 - Date of receipt on the premises
- xii. That, the occupier shall have a log book maintained with information on source and date of procurement of SPL, Quantity, date wise utilization of the same, Hazardous Waste generation and its disposal, etc.
- xiii. That, the occupier shall maintain record of Hazardous Waste utilized, Hazardous Waste generated and disposed as per form - 3 and shall file annual returns in form-4 as per Rule 20 (I) and (2) of the Hazardous and other waste (Management & Transboundary Movement) Rules, 2016, to concerned SPCB.
- xiv. That, the occupier shall complied all directions given by standard operating and procedure.

Memo No:JSPCB/HO/RNC/HWM-
2107018/2018/37
Date: 05/05/2018

DINESH
PRASAD SINGH
(Dinesh Prasad Singh)
Section Head, Jamshedpur.

Digitally signed by
DINESH PRASAD SINGH
Date: 2018.05.06 08:24:00
+05'00'

Copy To:

Regional Officer, Regional Office-Cum-Laboratory, Jamshedpur for information and necessary action.

DINESH
PRASAD SINGH
(Dinesh Prasad Singh)
Section Head, Jamshedpur.

Digitally signed by
DINESH PRASAD SINGH
Date: 2018.05.06
08:24:13 +05'00'



JHARKHAND STATE POLLUTION CONTROL BOARD
T.A. DIVISION BUILDING (GROUND FLOOR), H.E.C., DHURWA, RANCHI -834004
Phone.:2400852, 2400851, Fax:0651- 2400850 www. jspcb.org

FORM III
(See Rule 10)
AUTHORISATION

(AUTHORISATION FOR OPERATING A FACILITY FOR COLLECTION, RECEPTION, TREATMENT, STORAGE, TRANSPORT AND DISPOSAL OF BIOMEDICAL WASTES)

1. File no. of authorisation and date of issue: JSPCB/RO/JSR/BMW-7533472/2020/16 16/03/2020
2. M/s CRM BARA FIRST AID CENTRE, CRM BARA, TATA STEEL, Anoop Srivastava an occupier or operator of the facility located at TATA STEEL LIMITED, Jamshedpur is hereby granted an authorisation for:

Generation, segregation	✓	Collection	✓
Storage	✓	Transportation	✓
Reception		Use	
Recycling		Offering for sale	
Packaging	✓	Transfer	
Treatment or Processing or Conversion		Disposal or destruction	
Any other form of handling			

3. M/s CRM BARA FIRST AID CENTRE, CRM BARA, TATA STEEL is hereby authorized for handling of biomedical waste as per the capacity given below:
 - (i) Number of beds of HCF: Non Bedded
 - (ii) Number of health care facilities covered by CBMWTF: Nil
 - (iii) Installed treatment and disposal capacity: Nil
 - (iv) Area or distance covered by CBMWTF: N.A
 - (v) Quantity of Biomedical waste handled, treated or disposed: Yellow- 0.7 Kg/day, Red- 0.2 Kg/d, White- 0.1 Kg/day, Blue- 0.2 Kg/day (BMW Sent to T.M.H. incineration facility)
4. This authorisation shall be in force for a period of One time Years from the date of issue.
5. This authorisation is subject to the conditions stated below and to such other conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986

Date: 16/03/2020
Place: J.S.P.C.Board, Jamshedpur

SURESH Digitally signed by
SURESH PASWAN
PASWAN Date: 2020.03.16
17:02:06 +05'30'
(Suresh Paswan)
Regional Officer

Terms and Conditions of Authorisation

1. The authorisation shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.

2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the prescribed authority.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. It is the duty of the authorised person to take prior permission of the prescribed authority to close down the facility and such other terms and conditions may be stipulated by the prescribed authority.

Specific Conditions:

1. The unit should installed auto clave/micro wave or incinerator as per schedule-1 of the rules as attached with.
2. The Bio Medical Waste generated should be segregated according to schedule-II of the Rule.
3. Annual report should be made as per schedule in form-4 of the said Rule.
4. That, he/they shall treat the waste water with the best available technology.
5. The Occupier/operator shall demonstrate the facility of treatment process adopted and capacity of facility during the period of the authorization.
6. That, he/they shall do regular cleaning and wetting of the ground within the premises.
7. The unit shall get registered with the upcoming CBMWTF for Bio Medical Waste disposal as soon as it gets operation.
8. That, he/they shall obtain Q.R.Code of Bio-Medical Waste.

Memo No.: JSPCB/RO/JSR/BMW-7533472/2020/16

Dated:16/03/2020

Copy To:

M/s CRM Bara First Aid Centre, CRM Bara, Tata Steel, At- CRM Bara Complex, Dist East Singhbhum/ Deputy Commissioner, East Singhbhum/Civil Surgeon, East Singhbhum/The Member Secretary, Jharkhand State Pollution Control Board, Ranchi for information.

SURESH
PASWAN

Digitally signed by
SURESH PASWAN
Date: 2020.03.16
17:02:59 +05'30'

**(Suresh Paswan)
Regional Officer**



Dr. Amit Ranjan Chakraborty
Chief Environment Management

EMD/C-22/67/22
May 02, 2022

Dr. Dharmendra Kumar Gupta

Director (S)

Ministry of Environment, Forests and Climate Change

HSM Division

Level – II, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj

NEW DELHI – 110 003

Subject: Submission of information regarding subscription to PLI Policy for Tata Steel Limited

Reference:

1. The Public Liability Insurance (PLI) Act, 1991
2. Public Liability Insurance Policy Management System (PLIPMS) of MoEFCC

Dear Sir,

This has reference to the captioned subject and cited reference. We would like to state that as a responsible corporate, Tata Steel Limited is always complying to the requirement under the Public Liability Insurance (PLI) Act, 1991 & its amendment and has already subscribe to PLI policy for the company for the year 2022.

Following business of Tata Steel are ensured under PLI:

“Manufacture of Steel & Steel related finished products (Coils, Sheets, Billets, Pipes, Tubes, Bearings, Wires, growth shops, Agricultural tools tackles & equipment, etc.), By-Products, Ferro Chrome & Ferro Manganese, Chrome Ore, Chrome Concentrate (Beneficiated Chrome Ore),Manganese Ore, Mining & Washing of Coal, Iron Ore Limestone for captive use & Trading, any other related activities including the new activities taken up during the policy period and supporting activities anywhere in India”

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

Tel 91 657 6640363, 8092094575 (M) e-mail amit.chakraborty@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



Dr. Amit Ranjan Chakraborty
Chief Environment Management

The current subscription period to the above policy (Policy No: 4007/239762191/00/000) is from January **01, 2022 00:00 hrs. to December 31, 2022 23:59 hrs.** A copy of the above policy is enclosed for your information.

As per the provisions of the act, an equal amount of premium need to be credited to the Environment relief fund (ERF) through the Insurer, and Tata Steel Limited has complied with the same. Please refer page no. 2 of the enclosed policy for the amount of ₹ 15,001.00 (Rupees Fifteen Thousand one only) contributed to the ERF.

Hope the above is in line with the statutory requirement.

Thanking you

Yours Faithfully
For Tata Steel Limited

Dr. Amit Ranjan Chakraborty
Chief, Environment Management

Encl: Copy of the insurance policy the period 01-01-2022 to 31-12-2022

Copy to:

1. Additional Principal Chief Conservator of Forests (Eastern-Central), Regional Office (ECZ), Ministry of Environment, Forests & Climate Change, 2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand - 834002
2. In charge - Zonal Office, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, 1582, Rajdanga Main Road.
3. Member Secretary, Jharkhand State Pollution Control Board, Ranchi
4. Regional Officer, Jharkhand State Pollution Control Board, Adityapur

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
Tel 91 657 6640363, 8092094575 (M) e-mail amit.chakraborty@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



ICICI Lombard General Insurance Company Ltd.
 ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
 Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.
 Attached & forming part of
 Policy no.4007/239762191/00/000

UIN: IRDAN115CP0014V01201920

**PUBLIC LIABILITY INSURANCE
 (UNDER PUBLIC LIABILITY INSURANCE ACT 1991)**

Policy No: 4007/239762191/00/000

PREAMBLE

ICICI Lombard General Insurance Company Limited ("the Company"), having received a Proposal and the premium from the proposer named in the Schedule referred to herein below, and the said Proposal and Declaration together with any statement, report or other document leading to the issue of this Policy and referred to therein having been accepted and agreed to by the Company and the Proposer as the basis of this contract do, by this Policy agree, in consideration of and subject to the due receipt of the subsequent premiums, as set out in the Schedule with all its Parts, and further, subject to the terms and conditions contained in this Policy, as set out in the Schedule with all its Parts that on proof to the satisfaction of the Company of the compensation having become payable as set out in Part I of the Schedule to the title of the said person or persons claiming payment or upon the happening of an event upon which one or more benefits become payable under this Policy, the Sum Insured/ appropriate benefit will be paid by the Company.

PART I OF SCHEDULE		
1	Name of the insured	Tata Steel Limited
2	Mailing Address of the insured	Bombay House, 24, Homi Mody Street, Fort, Mumbai – 400 001
3	Trade or Business of the insured	Manufacture of Steel & Steel related finished products (Coils, Sheets, Billets, Pipes, Tubes, Bearings, Wires, growth shops, Agricultural tools tackles & equipment, etc), By-Products, Ferro Chrome & Ferro Manganese, Chrome Ore, Chrome Concentrate (Beneficiated Chrome Ore), Manganese Ore, Mining & Washing of Coal, Iron Ore Limestone for captive use & Trading, any other related activities including the new activities taken up during the policy period and supporting activities anywhere in India
4	Address of Premises insured	All premises owned / occupied by the insured
5	Paid Up Capital	INR 11,980,000,000
6	Policy period	January 01 st 2022
		December 31 st 2022
		Time: 00:00 hrs
		23.59 hrs
7	Turnover	INR 862,880,000,000

8	Limit of Indemnity	
	Aggregate One Year (AOY)	INR 150,000,000
	Any One Accident (AOA)	INR 50,000,000
9	Compulsory Excess	Nil
10	Net Premium	INR 15,001
	Tax	INR 2,700
	ERF Contribution	INR 15,001
	Stamp Duty	INR 1
	Total Payable	INR 32,703
11	Co-insurance details	Not Applicable
12	Special conditions	1. Communicable Disease Exclusion Endorsement
13	Intermediary Details	Direct

The stamp duty of Rs. 0.50/- (Fifty Paise Only) paid in cash or by demand draft or by pay order, vide Receipt/Challan No. CSD232202184 dated 06th January 2022.

Signed for and on behalf of ICICI Lombard General Insurance Company Limited, at Mumbai on this date February 15, 2022.



Authorised Signatory

GSTIN Reg. No : 27AAACI7904G1ZN

IL GIC GSTIN Address: Ground, First and Second Floor, ICICI Lombard House, 414 Veer Savarkar Marg, Prabhadevi, Mumbai 400025 Maharashtra

Description of services: General Insurance Business

HSN/SAC : 9971

Policy shall stand cancelled ab initio in the event of non-realization of the premium."

"Note- In case of renewal of the policy, policy benefit and terms & conditions of policy including premium may be subject to change."

PART II OF SCHEDULE

1. Definitions

For the purpose of this policy, the following terms shall have the meaning as set forth hereunder:

- i. "Act" unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time.
- ii. "Accident" means an accident involving a fortuitous, sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity.
- iii. "Handling" in relation to any hazardous substance means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance.
- iv. "Hazardous Substance" and group means any substance or preparation which is defined as hazardous substance under the Public Liability Insurance Act, 1991 and the Rules framed there under
- v. "Owner" or "Insured" means a person who owns, or has control over handling of any hazardous substance at the time of accident and includes:
 - a. in the case of a firm, any of its partners
 - b. in the case of an association, any of its members, and
 - c. in the case of a company, any of its directors, managers, secretaries or other officers who is directly in charge of, and is responsible to the company for the conduct of the business of the company
- vi. "Turnover" shall mean
 - a. In case of Manufacturing Units - Entire annual gross sales turnover including all levies and taxes of manufacturing units handling hazardous substance as defined in the Public Liability Insurance Act, 1991. For the purpose of this insurance, the term "Units" shall mean all operations being carried out in the manufacturing complex in one location.
 - b. In case of Godowns/ Warehouse Owners – Total annual rental receipts of premises handling hazardous substance as defined in the Public Liability Insurance Act, 1991.
 - c. In case of Transport Operators – Total annual freight receipts
 - d. In all other cases – Total annual gross receipts

2. Scope of Cover

The Company hereby agrees, subject to the terms, conditions and exclusions herein contained or endorsed or otherwise expressed herein, to indemnify the Insured or Owner as defined above for the purpose of this policy against the statutory liability arising out of Accidents occurring during the currency of the Policy due to handling of hazardous substances as provided for in the Act as defined above, and the Rules framed there under.

3. Exclusions

The Company shall not be liable:

- i. For any willful or intentional non-compliance of any statutory requirements;
- ii. In respect of fines, penalties, punitive and /or exemplary damages;
- iii. Under any law or legislation except in so far as provided for in Section 8 (1) & 8 (2) of the Act;
- iv. In respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody;
- v. For any liability directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not) civil war, rebellion, revolution, insurrection or military or usurped power;
- vi. For any liability directly or indirectly caused by or contributed to by:
 - a. Ionizing radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel.
 - b. The radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof;
- vii. For matter outside the scope of Public Liability Insurance Act, 1991.
- viii. In respect of losses/liability arising outside India.

4. Basis of Assessment of Claims

- i. The basis of assessment of claim shall be the award given by the appropriate authority under the Act.
- ii. **Claim Procedures:**

The procedure for lodging the claim shall be as under:

- a. On the occurrence of any Accident, whether or not the Insured receives any notice of an alleged claim / complaint, the Insured shall

duly inform the Company in the manner prescribed in the 'Incident Reporting Form', detailing the Accident.

- b. The Insured shall, upon receipt of any notice of an alleged claim / complaint from appropriate authority, forthwith furnish the same to the Company in the manner detailed in the 'Claim Application Form'. The insured shall also furnish the copies of such documents, as prescribed by the rules, which are submitted and forwarded by the appropriate authority and/or any proposed responses, if any, by the Insured to the appropriate authorities.
- c. Upon the affixing of any legal liability upon the Insured in terms of an award of the appropriate authority, the Insured shall forthwith submit a duly filled 'Claim Settlement Form', detailing the liability accrued and the Defence Costs, if any together with any other information that the Company may require or as specified in the 'Claim Settlement Form'.
- d. The Insured shall also at all times at his own expense produce, procure and give to the Company all such further particulars, plans, specifications, books, vouchers, invoices, duplicates or copies thereof, documents, investigation reports (internal/external), proofs, evidence and information with respect to the claim (verified by statutory declaration, if so required) and the origin and cause of the loss and the circumstances under which the loss or damage occurred, and any matter touching the liability or the amount of the liability of the Company as may be reasonably required by or on behalf of the Company together with a declaration on oath or in other legal form of the truth of the claim and of any matters connected therewith.
- e. Subject to applicable law, rule, regulation or notification in this behalf, the Company hereby reserves the right as provided hereafter:

No claim in respect of loss equal to or exceeding twenty thousand rupees in value on the policy shall be admitted for payment or settled by the Company unless the Company has been given a report on the occurrence of the loss and extent of the loss, from a person who holds a license to act as a Surveyor or loss assessor, under the Insurance Act, 1938, and appointed by the company for the purpose.

Provided that nothing hereinabove shall be deemed to take away or abridge the right of the Company to pay or to settle any claim at any amount different from the amount assessed by the Surveyor or loss assessor.

- f. The Insured shall furnish the forms duly completed together with:
 - i. all material documents, as specified therein or as requested by the Company or otherwise;
 - ii. particulars of all other insurances, if any

No claim under this policy shall be payable unless the terms of this condition have been complied with

5. Limitation Period

In no case whatsoever shall the Company be liable for any claim for relief made after the expiry of 5 years from the date of occurrence of the Accident.

6. Policy Related Terms And Conditions

1. No admission, offer, promise or payment shall be made or given by or on behalf of the Insured under this policy without the written consent of the Company.
2. The Insured shall keep a record of their Turnover. The Company shall at all times have full rights to call for and examine such records.
3. In case the Company pays any amount to the claimant due to any statutory provision, such amount shall be recoverable from the Insured, if such amount need not have been paid but for the said statutory provision

PART III OF THE SCHEDULE

Standard Terms and Conditions

1. Incontestability and Duty of Disclosure

The policy shall be null and void and no benefit shall be payable in the event of untrue or incorrect statements, misrepresentation, incorrect description or non-disclosure in any material particular in the proposal form, personal statement, declaration and connected documents, or any material information having been withheld, or a claim being fraudulent or any fraudulent means or devices being used by the Insured or any one acting on his behalf to obtain any benefit under this policy

2. Reasonable Care

The Insured shall take all reasonable steps to safeguard the interests of the Insured against accidental loss, or damage that may give rise to the claim

3. Observance of terms and conditions

The due observance and fulfillment of the terms, conditions and endorsement of this policy in so far as they relate to anything to be done or complied with by the Insured, shall be a condition precedent to any liability of the Company to make any payment under this policy

4. Material change

The Insured shall immediately notify the Company by fax and in writing of any

material change in the risk and cause at his own expense such additional precautions to be taken as circumstances may require to ensure safe operation of the Insured items or trade or business practices thereby containing the circumstances that may give rise to the claim and the Company may, adjust the scope of cover and / or premium, if necessary, accordingly

5. Records to be maintained

The Insured shall keep an accurate record containing all relevant particulars and shall allow the Company to inspect such record. The Insured shall within one month after the expiry of each period of insurance furnish such information as the Company may require

6. No constructive Notice

Any of the circumstances in relation to these conditions coming to the knowledge of any official of the Company shall not be the notice to or be held to bind or prejudicially affect the Company notwithstanding subsequent acceptance of any premium

7. Notice of charge etc

The Company shall not be bound to notice or be affected by any notice of any trust, charge, lien, assignment or other dealing with or relating to this policy but the receipt of the Insured or his legal personal representative shall in all cases be an effectual discharge to the company

8. Special Provisions

Any special provisions subject to which this policy has been entered into and endorsed in the policy or in any separate instrument shall be deemed to be part of this policy and shall have effect accordingly

9. Overriding effect of Part II of the Schedule

The terms and conditions contained herein and in Part II of the Schedule shall be deemed to form part of the policy and shall be read as if they are specifically incorporated herein; however, in case of any inconsistency of any term and condition with the scope of cover contained in Part II of the Schedule, then the term(s) and condition(s) contained herein shall be read mutatis mutandis with the scope of cover/terms and conditions contained in Part II of the Schedule and shall be deemed to be modified accordingly or superseded in case of inconsistency being irreconcilable

10. Electronic Transactions

The Insured agrees to adhere to and comply with all such terms and conditions as the Company may prescribe from time to time, and hereby agrees and confirms that all transactions effected by or through facilities for conducting remote transactions including the Internet, World Wide Web, electronic data interchange, call centers, teleservice operations (whether voice, video, data or combination thereof) or by means of electronic, computer, automated machines network or through other means of telecommunication, established by or on behalf of the Company, for and in respect of the policy or its terms, or the Company's other products and services, shall constitute legally binding and valid transactions when done in adherence to and in compliance with the Company's terms and conditions for such facilities, as may be prescribed from time to time. The Insured agrees that the Company may exchange, share or part with any information to or with other ICICI Group Companies or any other person in connection with the Policy, as may be determined by the Company and shall not hold the Company liable for such use/application

11. Duties of the Insured on occurrence of loss

On the occurrence of any loss, within the scope of cover under the policy the Insured shall:

- I. Forthwith file/submit a Claim Form in accordance with Claim Procedure Clause as provided in Part II of the Schedule.
- II. Allow the Surveyor or any agent of the Company to inspect the lost/damaged properties/premises/goods or any other material items, as per the Right to Inspect Clause as provided in this Part.
- III. Assist and not hinder or prevent the Company or any of its agents in pursuance of their duties under Rights of the Company On Happening Of Loss Or Damage Clause as provided in this Part.
- IV. Not abandon the insured property/item/premises, nor take any steps to rectify/remedy the damage before the same has been approved by the Company or any of its agents or the Surveyor.

If the Insured does not comply with the provisions of this Clause or other obligations cast upon the Insured under this policy, in terms of the other clauses referred to herein or in terms of the other clauses in any of the policy documents, all benefits under the policy shall be forfeited, at the option of the Company

12. Rights of the Company on happening of loss or damage

On the happening of loss or damage, or circumstances that have given rise to a claim under this policy, the Company may:

1. enter and/or take possession of the insured property, where the loss or damage has happened
2. take possession of or require to be delivered to it any property of the Insured in the building or on the premises at the time of the loss or damage

3. keep possession of any such property and examine, sort, arrange, remove or other wise deal with the same; and,
4. sell any such property or dispose of the same for account of whom it may concern.

The powers conferred by this condition shall be exercisable by the Company at any time until notice in writing is given by the Insured that he makes no claim under the policy, or if any claim is made, until such claim is finally determined or withdrawn. The Company shall not by any act done in the exercise or purported exercise of its powers hereunder incur any liability to the Insured or diminish its rights to rely upon any of the conditions of this policy in answer to any claim.

If the insured or any person on his behalf shall not comply with the requirement of the Company, or shall hinder or obstruct the Company in the exercise of the powers hereunder, all benefits under the policy shall be forfeited at the option of the Company

13. Right to inspect

If required by the Company, an agent/representative of the Company including a loss assessor or a Surveyor appointed in that behalf shall in case of any loss or any circumstances that have given rise to the claim to the Insured be permitted at all reasonable times to examine into the circumstances of such loss. The Insured shall on being required so to do by the Company produce all books of accounts, receipts, documents relating to or containing entries relating to the loss or such circumstance in his possession and furnish copies of or extracts from such of them as may be required by the Company so far as they relate to such claims or will in any way assist the Company to ascertain in the correctness thereof or the liability of the Company under the policy

14. Position after a claim

The Insured shall not be entitled to abandon any insured item/property whether the Company has taken possession of the same or not. As from the day of receipt of the claim amount by the Insured as determined by the Company to be fit and proper, the Sum Insured for the remainder of the period of Insurance shall stand reduced by the amount of the compensation

15. Subrogation

In the event of payment under this policy, the Company shall be subrogated to all the Insured's rights or recovery thereof against any person or organisation, and the Insured shall execute and deliver instruments and papers necessary to secure such rights.

The Insured and any claimant under this policy shall at the expense of the Company do and concur in doing and permit to be done, all such acts and things as may be necessary or required by the Company, before or after Insured's indemnification, in enforcing or endorsing any rights or remedies, or of obtaining relief or indemnity, to which the Company shall be or would become entitled or subrogated

16. Contribution

If at the time of the happening of any loss or damage covered by this policy, there shall be existing any other insurance of any nature whatsoever covering the same, whether effected by the Insured or not, then the Company shall not be liable to pay or contribute more than its ratable proportion of any loss or damage

17. Fraudulent claims

If any claim is in any respect fraudulent, or if any false statement, or declaration is made or used in support thereof, or if any fraudulent means or devices are used by the Insured or anyone acting on his behalf to obtain any benefit under this policy, or if a claim is made and rejected and no court action or suit is commenced within twelve months after such rejection or, in case of arbitration taking place as provided therein, within twelve (12) calendar months after the Arbitrator or Arbitrators have made their award, all benefits under this policy shall be forfeited

18. Cancellation/termination

The Company may at any time, cancel this policy, by giving 7 days notice in writing by Registered post/Acknowledgement Due post to the Insured at his last known address in which case the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of the cancellation. The Insured may also give 7 days notice in writing, to the Company, for the cancellation of this policy, in which case the Company shall cancel the policy from the date of receipt of notice and retain the premium for the period this policy has been in force at the Company's short period scales as shown here below

Period (Not exceeding)	Rate
1 week	25% of the Annual rate
1 Month	25% of the Annual rate
2 Months	35% of the Annual rate
3 Months	50% of the Annual rate
4 Months	60% of the Annual rate
6 Months	75% of the Annual rate
8 Months	85% of the Annual rate
Exceeding 8 Months	Full Annual Premium

19. Cause of Action/ Currency for payments

No Claims shall be payable under this policy unless the cause of action arises in India, unless otherwise specifically provided in Part II of the Schedule to this policy. All claims shall be payable in India in Indian Rupees only

20. Policy Disputes

Any dispute concerning the interpretation of the terms, conditions, limitations and/or exclusions contained herein is understood and agreed to by both the Insured and the Company to be subject to Indian Law. Each party agrees to submit to the exclusive jurisdiction of the High Court of India and to comply with all requirements necessary to give such Court the jurisdiction. All matters arising hereunder shall be determined in accordance with the law and practice of such Court

21. Renewal notice

The Company shall not be bound to accept any renewal premium nor give notice that such is due. Every renewal premium (which shall be paid and accepted in respect of this policy) shall be so paid and accepted upon the distinct understanding that no alteration has taken place in the facts contained in the proposal or declaration herein before mentioned and that nothing is known to the Insured that may result to enhance the risk of the company under the guarantee hereby given. No renewal receipt shall be valid unless it is on the printed form of the Company and signed by an authorized official of the Company

22. Notices

Any notice, direction or instruction given under this policy shall be in writing and delivered by hand, speed/registered post or courier to

In case of the Insured, at the address specified in Part 1 of the Schedule.

In case of the Company:

ICICI Lombard General Insurance Company Limited
Corporate Office: ICICI LOMBARD HOUSE, 414 VEER SAVARKAR MARG,
PRABHADEVI, MUMBAI-400025.

Notice and instructions will be deemed served 7 days after posting or immediately upon receipt in the case of hand delivery, facsimile or e-mail

23. Customer Service

If at any time the Insured requires any clarification or assistance, the Insured may contact the offices of the Company at the address specified, during normal business

hours

24. Grievances

In case you are aggrieved in any way, you should call us at toll free number: 1800 2666 or email us at customersupport@icicilombard.com.

If you are not satisfied with the resolution, then you may subsequently write to the manager- service quality, corporate manager- service quality, national manager- operations & finally director-services and business development at the following address:

Grievance Redressal Officer
 ICICI Lombard General Insurance Company Limited
 ICICI Lombard House
 414, Veer Savarkar Marg
 Near Siddhi Vinayak Temple,
 Prabhadevi, Mumbai 400 025

In case your complaint is not fully addressed by us, we may use the Integrated Grievance Management System (IGMS) for escalating the complaint to IRDAI. Through IGMS, Insured can register the complaint online and track its status. For registration please visit IRDAI website www.irdaindia.org. If the issue still remains unresolved, you may, subject to vested jurisdiction, approach Insurance Ombudsman for the redressal of the grievance.

The details of Insurance Ombudsman are available below:-

Sr . no .	Name and office of Insurance Ombudsman	Territorial Area of Jurisdiction
1	AHMEDABAD Office of the Insurance Ombudsman, 2nd floor, Ambica House, Near C.U. Shah College, 5, Navyug Colony, Ashram Road, Ahmedabad – 380 014 Tel.:- 079-27546150/139 Fax:- 079-27546142 Email:- bimalokpal.ahmedabad@ecoi.co.in	State of Gujarat and Union Territories of Dadra & Nagar Haveli and Daman and Diu.
2	BENGALURU Office of the Insurance Ombudsman, Jeevan Soudha Building, PID No.57-27-N-19, Ground Floor, 19/19, 24th Main Road,JP Nagar, 1st Phase,	Karnataka.

	Bengaluru-560 078. Tel.:- 080-26652048 / 26652049 Email:- bimalokpal.bengaluru@ecoi.co.in	
3	BHOPAL Office of the Insurance Ombudsman, Janak Vihar Complex, 2nd Floor, 6, Malviya Nagar, Opp.Airtel Office, Near New Market,Bhopal – 462 033. Tel.:- 0755-2769200/201/202 Fax:- 0755-2769203 Email:- bimalokpalbhupal@ecoi.in	States of Madhya Pradesh and Chattisgarh.
4	BHUBANESHWAR Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar – 751 009. Tel.:- 0674-2596461 / 2596455 Fax:- 0674-2596429 Email:- bimalokpal.bhubaneswar@ecoi.co.in	State of Orissa.
5	CHANDIGARH Office of the Insurance Ombudsman, S.C.O. No. 101, 102 & 103, 2 nd Floor, Batra Building, Sector 17 – D, Chandigarh – 160 017. Tel.:- 0172-2706196/5861 / 2706468 Fax:- 0172-2708274 Email:- bimalokpal.chandigarh@ecoi.co.in	States of Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir and Union territory of Chandigarh.
6	CHENNAI Office of the Insurance Ombudsman, Fatima Akhtar Court, 4th Floor, 453 (old 312), Anna Salai, Teynampet, CHENNAI – 600 018. Tel.:- 044-24333668 / 24335284 Fax:- 044-24333664 Email:- bimalokpal.chennai@ecoi.co.in	State of Tamil Nadu and Union Territories - Pondicherry Town and Karaikal (which are part of Union Territory of Pondicherry).
7	DELHI Office of the Insurance Ombudsman, 2/2 A, Universal Insurance Building, Asaf Ali Road, New Delhi – 110 002. Tel.:- 011-23239611/7539/7532 Fax:- 011-23230858 Email:- bimalokpal.delhi@ecoi.co.in	State of Delhi
8	ERNAKULAM Office of the Insurance Ombudsman, 2nd floor, Pulinat Building, Opp. Cochin Shipyard, M.G. Road, Ernakulum - 682 015. Tel.:- 0484-2358759/2359338 Fax:- 0484-2359336 Email:- bimalokpal.ernakulum@ecoi.co.in	Kerala, Lakshadweep, Mahe-a part of Pondicherry

9	GUWAHATI Office of the Insurance Ombudsman, 'Jeevan Nivesh', 5th Floor, Nr. Panbazar over bridge, S.S. Road, Guwahati – 781001 (ASSAM). Tel.:- 0361- 2132204 / 2132205 Fax:- 0361-2732937 Email:- bimalokpal.guwahati@ecoi.co.in	States of Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura.
10	HYDERABAD Office of the Insurance Ombudsman, 6-2-46, 1st floor, "Moin Court" Lane Opp. Saleem Function Palace, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.:- 040-65504123/23312122 Fax:- 040-23376599 Email:- bimalokpal.hyderabad@ecoi.co.in	States of Andhra Pradesh, Telangana and Union Territory of Yanam - a part of the Union Territory of Pondicherry.
11	JAIPUR Office of the Insurance Ombudsman, Jeevan Nidhi-II Bldg., Ground Floor, Bhawani Singh Marg, Jaipur - 302005. Tel.:- 0141-2740363 Email:- bimalokpal.jaipur@ecoi.co.in	State of Rajasthan.
12	KOLKATA Office of the Insurance Ombudsman, Hindustan Building Annexe, 4th floor, 4, CR Avenue, Kolkata - 700 072. Tel.:- 033-22124339 / 22124340 Fax:- 033-22124341 Email:- bimalokpal.kolkata@ecoi.co.in	States of West Bengal, Bihar, Sikkim and Union Territories of Andaman and Nicobar Islands.
13	LUCKNOW Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase-II, Nawal Kishore Road, Hazratganj, Lucknow-226 001. Tel.:- 0522-2231330 / 2231331 Fax:- 0522-2231310. Email:- bimalokpal.lucknow@ecoi.co.in	District of Uttar Pradesh: Lalitpur, Jhansi, Mahoba, Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhadra, Fatehpur, Pratapgarh, Jaunpur, Varansi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bhaich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sulampur, Maharajganj, Santkabirnagar, Azamgarh, Kaushinagar, Gorkhpur, Deoria, Mau, Chandauli, Ballia, Sidharathnagar.
14	MUMBAI Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai - 400 054. Tel.:- 022-26106928/360/889 Fax:- 022-26106052 Email:- bimalokpal.mumbai@ecoi.co.in	States of Goa, Mumbai Metropolitan Region excluding Navi Mumbai & Thane.
15	NOIDA Office of the Insurance Ombudsman, Bhagwan Sahai Palace, 4th Floor, Main Road,	States of Uttaranchal and the following Districts of Uttar Pradesh: Agra, Aligarh, Bagpat, Bareilly, Bijnor, Budaun, Bulandshehar, Etah, Kanoor, Mainpuri,

	Naya Bans, Sector-15, Gautam Budh Nagar, Noida Email:- bimalokpal.noida@ecoi.co.in	Mathura, Meerut, Moradabad, Muzaffarnagar, Oraiyya, Pilibhit, Etawah, Farrukhabad, Firozabad, Gautam Budh Nagar, Ghaziabad, Hardoi, Shahjahanpur, Hapur, Shamli, Rampur, Kashganj, Sambhal, Amroha, Hathras, Kanshiramnagar, Saharanpur.
16	PATNA Office of the Insurance Ombudsman, 1st Floor, Kalpana Arcade Building, Bazar Samiti Road, Bahadurpur, Patna - 800 006. Email:- bimalokpal.patna@ecoi.co.in	States of Bihar and Jharkhand.
17	PUNE Office of the Insurance Ombudsman, Jeevan Darshan Building, 3rd Floor, CTS Nos. 195 to 198, NC Kelkar Road, Narayan Peth, Pune - 411 030 Tel: 020 -32341320 Email:- bimalokpal.pune@ecoi.co.in	States of Maharashtra, Area of Navi Mumbai and Thane excluding Mumbai Metropolitan Region.

The updated details of Insurance Ombudsman are available on IRDA website: www.irdaindia.org, on the website of General Insurance Council: www.generalinsurancecouncil.org.in, our website www.icicilombard.com or can be obtained from any of our offices.

COMMUNICABLE DISEASE EXCLUSION ENDORSEMENT

- 1) Notwithstanding any provision, clause or term of this Policy to the contrary, this Policy excludes any loss, cost, damage, liability, claim, fines, penalty or expense or any other amount of whatsoever nature, whether directly or indirectly and/or in whole or in part, related to, caused by, contributed to by, resulting from, as a result of, as a consequence of, attributable to, arising out of, arising under, in connection with, or in any way involving (this includes all other terms commonly used and/or understood to reflect or describe nexus and/or connection from one thing to another whether direct or indirect):
 - i) a Communicable Disease and/or the fear or threat (whether actual or perceived) of a Communicable Disease and/or the actual or alleged transmission of a Communicable Disease regardless of any other cause or event contributing and/ or occurring concurrently or in any sequence thereto, and
 - ii) a pandemic or epidemic, as declared by the World Health Organization or any governmental authority.

- 2) As used herein, Communicable Disease means: any infectious, contagious or communicable substance or agent and/or any infectious, contagious or communicable disease which can be caused and/or transmitted by means of substance or agent where:
 - i) the disease includes, but is not limited an illness, sickness, condition or an interruption or disorder of body functions, systems or organs, and
 - ii) the substance or agent includes, but is not limited to, a virus, bacterium, parasite, other organism or other micro-organism (whether asymptomatic or not); including any variation or mutation thereof, whether deemed living or not, and
 - iii) the method of transmission, whether direct or indirect, includes but not limited to, airborne transmission, bodily fluid transmission, transmission through contact with human fluids, waste or the like, transmission from or to any surface or object, solid, liquid or gas or between organisms including between humans, animals, or from any animal to any human or from any human to any animal, and
 - iv) the disease, substance or agent is such:
 - a. that causes or threatens damage or can cause or threaten dam-

- age to human health or human welfare, or
- b. that causes or threatens damage to or can cause or threaten damage to, deterioration to, contamination of, loss of value of, loss of marketability of or loss of use or usefulness of, tangible or intangible property.

For avoidance of doubt, Communicable Disease includes but is not limited to Coronavirus Disease 2019 (Covid -19) and any variation or mutation thereof.

- 3) For further avoidance of doubt, any contingent or other business interruption loss, cost, damage, loss of income, loss of use, increased cost of working and/or extra expense arising out of or attributable to:
 - a) any partial or complete closure of and/or slowdown in, including but not limited to any closure by or under the advisories of public, military, government or civil authorities, or any denial of access to Insured premises, or customer and or supplier premises (including service / utility providers), or
 - b) change in consumer behavior, or
 - c) an absence of infected employees or employees suspected of being infected shall not be covered by this Insurance Contract/Policy
- 4) For still further avoidance of doubt, loss, cost, damage, liability, claim, fines, penalty or expense or any other amount excluded hereby, includes but is not limited to any cost to identify, clean-up, detoxify, disinfect, decontaminate, mitigate, remove, evacuate, repair, replace, monitor, sanitize or test: (1) for a Communicable Disease or (2) any tangible or intangible property covered by this Insurance Contract/Policy that is affected by such Communicable Disease.
- 5) It is clarified that (1) no other prior, concurrent or subsequent provision, clause, term or exception of this Policy (including (but not limited to) any prior, concurrent or subsequent endorsement and/or any provision, clause, term, buy back or exception that operates, or is intended to operate, to extend the coverage of, or protections provided by, this Policy by whatever name called like any coverage extension, additional coverage, global extension, exception to any exclusion); (2) any change in the law, clause or similar provision; (3) any follow the fortunes clause or similar provision; and/or (4) no change in the law or any regulation (to the extent permitted by applicable law), shall operate to provide any coverage or protection under this Policy that would otherwise be excluded through the exclusion set



ICICI Lombard General Insurance Company Ltd.
ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.
Attached & forming part of
Policy no.4007/239762191/00/000

forth in this clause.

6 . If the Insurer alleges that by reason of this Clause any amount is not covered by this Policy the burden of proving the contrary shall rest in the Insured

ICICI Lombard General Insurance Company Limited		
IRDA Reg. No. 115	CIN: L67200MH2000PLC129408	
Mailing Address:	Registered Office:	Toll free No. : 1800 2666
401 & 402, 4th Floor, Interface 11, ICICI Lombard House, 414, Veer Savarkar Marg, New Linking Road, Malad (West), Mumbai - 400 064.	Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.	Alternate No.: +919223622666 (chargeable) Email: customersupport@icicilombard.com Website: www.icicilombard.com