

TSJ/EMD/C-38/216 /24 27 Nov 2024

Deputy Director General of Forests (C)

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

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

Reference:

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

Dear Sir/Ma'am,

With reference to the captioned subject and cited references, we are submitting Half Yearly EC Compliance Report for the period from **April'2024 to September'2024**. You are requested to kindly acknowledge the same and place in your records.

Thanking you

Yours faithfully,

For Tata Steel Limited

Utsav Kashyap

Head Environment Clearance & Compliance (TSL)

Enclosures as above

Copy to:

- Zonal Officer, Central Pollution Control Board, Southern Conclave, Block 502, 5th and 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107
- 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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Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	IA/JH/IND/3455/2012	
Compliance ID	112814021	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/112814021/2024	
Reporting Year	2024	
Reporting Period	01 Dec(01 Apr - 30 Sep)	
Submission Date	28-11-2024	
RO/SRO Name	ARTATRANA MISHRA	
RO/SRO Email	jhk109@ifs.nic.in	
State	JHARKHAND	
RO/SRO Office Address	Integrated Regional Offices, Ranchi	

Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, JHARKHAND with Notification to Project Proponent.

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Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	IA/JH/IND/21196/2007	
Compliance ID	79474610	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/79474610/2024	
Reporting Year	2024	
Reporting Period	01 Dec(01 Apr - 30 Sep)	
Submission Date	28-11-2024	
RO/SRO Name	ARTATRANA MISHRA	
RO/SRO Email	jhk109@ifs.nic.in	
State	JHARKHAND	
RO/SRO Office Address	Integrated Regional Offices, Ranchi	

Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, JHARKHAND with Notification to Project Proponent.

ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT

April 2024 to September 2024

Cold Rolling Mill Complex (CRMC), Jamshedpur

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

ENVIRONMENTAL MANAGEMENT DEPARTMENT TATA STEEL LIMITED JAMSHEDPUR

S.No.	Compliance Conditions	Compliance Status
	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	Wildlife Conservation Plan (WLCP) for Tata Steel Jamshedpur works and CRM Complex Bara has been prepared combinedly and approved by Principal Chief Conservator of Forests – Wildlife (PCCF-WL) GoJ on 13 November 2017 (Annexure-1). Funds are earmarked for the various activities identified in WLCP and payment of levies as per approved Site Specific WLCP has been deposited into DFO Jamshedpur account vide challan no. 108 dated: 20.02.2023 (Annexure-1).
ii	continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic	Monitoring System (OCEMS) have been installed to monitor air emissions. Fume extraction system including scrubber and bag filters have been
iii	In-plant control measures like bag filters, dedusting 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.	 Fume extraction system including scrubber in pickling line. Bag filter in shot blasting machine and Acid recovery plant. Roof-top ventilation system. Water sprinkling and mechanized sweeping machine.
		Hot Rolled Coils from Main Steel Works are used as raw material in the manufacturing process. As Ore and Minerals are not being handled inside plant premises, there is no generation of secondary fugitive dust emission.
	fugitive emissions from all the sources shall	Mentioned notification is for Sponge iron industry. However, applicable points of the standards, issued by the Ministry vide G.S.R. 414(E) dated 30 May 2008 are being complied.
v		Water consumption is recorded regularly & the same is within prescribed limit for as mentioned in EC.
vi	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	Rainwater harvesting capacity enhanced to 11,500 m³ by rejuvenating abandoned sites of inside CRM Bara Complex, which comprises of two large and three small ponds. Further, service water and drinking water lines had been overgrounded to reduce losses. Closed circuit cooling system is deployed to reduce water consumption. Attached as Annexure-2 .

I. Spec	eific Conditions:	
S.No.	Compliance Conditions	Compliance Status
vii	dust suppression and green belt development. No effluent shall be discharged, and 'zero' discharge shall be	CRM Bara is Zero Effluent Discharge unit and not discharging any effluent outside premises. Effluent treatment plant is installed and in operation for the treatment of wastewater. The treated water is being recycled in operation, plantation, dust suppression and other low end uses. Domestic wastewater generated inside plant is being treated in STP.
viii	surface, sub-surface and ground water shall	
ix	disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its	Proper handling, storage, utilization, and disposal of solid waste generated is being ensured. Iron oxide is sold to paint industry and other recyclers; Disposable hazardous waste is sent to authorized TSDF. Metallic scraps generated at CRM Bara is being utilized through internal and external applications.
х	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Proper handling, storage, utilization, and disposal of solid waste generated is being ensured. Iron oxide is sold to paint industry and other recyclers; Disposable hazardous waste is sent to authorized TSDF. Metallic scraps generated at CRM Bara is being utilized through internal and external applications.
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.	No fly ash is being generated in cold rolling mill process.
xii	with the mitigation measures shall be prepared and a copy submitted to the	Onsite emergency plan & Disaster Management Plan has been prepared and approved by Chief Inspector of Factories; Jharkhand vide letter no. 7/Plan 10215/2016-467 dated 14 March 2018 attached as Annexure-4.
xiii	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Proper handling, storage, utilization, and disposal of solid waste generated is being ensured.
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. Approx. 3.5 Ha area in and around plant is under plantation/ greenbelt/greenery which is more than 33% of the plant area. We have developed approx. 5m wide area of plantation around the plant.

I. Spec											
S.No.	Compliance Conditions	Compliance Status									
XV	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.					ıdati	ons	are	the	ere un	der CREP
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	being done Year wise	e in	Jam	ishe	dpu:	r an	ıd Ir	nme	diate l	Periphery.
	with time bound action plan shall be	Interventions	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25 H1	Cumulative
	prepared and submitted to the Ministry's	Health		66.8	1.5	0.5	0.6		4.1	1.5	79.6
	Regional Office at Ranchi.	Drinking Water	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.3
		Education Livelihood-	0.9	1.5	1.8	1.3	3.0	5.0	10.6	4.9	29.0
		Skill Development	1.6	1.6	1.6	1.4	1.2	3.9	4.9	2.3	18.4
		Sports	4.4	6.7	4.7	13.3	12.3	13.2	20.7	4.2	79.4
		Rural Infrastructure	2.1	0.0	0.0	1.4	3.1	5.3	2.0	0.2	14.0
		Environment	2.1	2.0	2.7	2.8	4.0		14.3	2.0	34.2
		Ethnicity Misc	0.0	4.5 0.0	5.3	0.1	0.4	13.3	14.6 2.8	2.7 0.3	49.6 3.6
		Total							74.0		308.1
xvii	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.	implement	atio		atus	s is a	atta		d as	Anne	
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.	MTPA. All such as drinking	the food wa	nec l, n ter,	essa nedi et	ary i cal c.	nfra hea had	astrı ılth l l	uctu car been	re and e, toi pro	d facilities lets, safe vided to

II. Gen	eral Conditions:	
S.No.	Compliance Conditions	Compliance Status
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 NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this	Ambient air quality monitoring is being done at 4 locations. Monitoring reports are being submitted to JSPCB, CPCB and MoEF&CC regularly. Monitoring reports for all relevant parameters from Apr'24 to Sep'24 is attached in Annexure-3 .

	eral Conditions:				
S.No.	Compliance Conditions	Compliance Status			
	Ministry including its Regional Office at Ranchi and the SPCB/CPCB once in six months.				
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.	CRM Bara is Zero Effluent Discharge unit and not discharging any effluent outside premises. Effluent treatment plant is installed for the treatment of wastewater. The treated water is being recycled in operation, plantation, dust suppression and other low end uses.			
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).	with acoustic enclosures and silencer to reduce noise at source. Moreover, closed cabins are provided for workers wherever required and people are encouraged to use ear plugs or earmuffs to avoid any accompanied noise hazards.			
vi	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	conducted on half yearly basis.			
vii	The company shall develop rainwater harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	m ³ by rejuvenating abandoned sites of inside CRM Bara Complex, which comprises of two large and			
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 a implemented according to measures and recommended in the EIA/ EMP report. C development programs in surrounding being implemented. Enterprise Social Co (ESC) activities details is provided it condition no xvi.	ommunity areas are mmitment		
ix	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control	For environment protection, 29.2 Cr rupe as capital cost in FY24. Details are as bell Details			
	measures to implement the conditions stipulated by the MoEF&CC as well as the	Pollution control measures (WWTP, ARP, fume extraction systems, etc.	12		
	State Government. An implementation schedule for implementing all the	Provision of online environment monitoring equipment and display	2.26		
	conditions stipulated herein shall be submitted to the Regional Office of the	Rejuvenation of water bodies	6.94		
	Ministry at Ranchi. The funds so provided	ARP environmental upgradation PL rinse scrubber	7.49		
	shall not be diverted for any other purpose.	Total capital cost (Cr.)	0.510 29.20		

II. Gen	neral Conditions:	
S.No.	Compliance Conditions	Compliance Status
х	A copy of clearance letter shall be sent by the proponent to concerned Panchnyat, Zila Parishad /Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company the proponent.	The copy of Clearance letter has been sent to District Commissioner, Block Development Officer and Jamshedpur Notified Area Committee vide our letter no. EMD/C-38/135,137,138/15 dated 16 September 2015, attached as Annexure-6 . The clearance letter shall is also uploaded on the website of company. https://www.tatasteel.com/media/12708/ec-letter-for-08-mtpa-crm-complex-bara-of-tata-steel-issued-by-ministry-of-environment-forest-climate-change-govt-of-india.pdf
хi	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF&CC at Ranchi. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NOx (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.	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/ Monitoring data is being displayed near the main gate of the company in the public domain. Photograph attached as Annexure-7 .
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 email) 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. FY24 compliance report submitted via TSJ/EMD/C-38/018/24 dated 29 May 2024.
xiii	The environmental statement for each financial year ending 31st 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 MoEFCC at Ranchi by e-mail.	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'24 has been submitted to JSPCB through hard and soft copies vide letter no. TSJ/EMD/C-23/196/24 dated 27 September 2024. 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	Environment clearance information/notice had been advertised in two local newspaper dated September 20, 2015, in English Paper and Hindi Paper <i>viz</i> The Telegraph and Prabhat Khabar attached as Annexure-8 .

II. Gen	II. General Conditions:				
S.No.	Compliance Conditions	Compliance Status			
	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.	Copy of these have been sent to the Regional Office, MoEF&CC at Ranchi vide letter no. EMD/C38/136/15 dated 16 September 2015.			
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).			
xviii	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.	We are abiding by all the applicable legal requirements and Statutory clearances.			

ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT

April 2024 to September 2024

Cold Rolling Mill Complex (CRMC), Jamshedpur

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

ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR

Specif	Specific Conditions:					
S.No.	Compliance Conditions	Compliance Status				
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.	Fume extraction system is provided to extract a vapors or fumes from pickling line. Pickling baths covered with tight granite covers. There is no I emission inside plant premises. Ventilation has be provided within the plant to control LPG emission.				
ii	Total water requirement from M/s JUSCO is about 1712 m³/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.	No ground water is being used. CRM Bara is Ze Effluent Discharge (ZED) unit and not discharging any effluent outside premises. Effluent treatment plant is installed for the treatment of wastewater. The treated water is being recycled in operation plantation, dust suppression and other low end used Domestic wastewater generated inside plant is being treated in STP.				
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 / reprocessors for proper disposal through incineration.	solid waste generated is being ensured. Iron oxide sold to paint industry and other recyclers. Disposal hazardous waste is sent to authorized TSDF. Metal scraps generated at CRM Bara is being 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.	Approx. 3.5 Ha area in and around plantation/ greenbelt/greenery which i 33% of the plant area. We have developed wide area of plantation around the plant	s more than d approx. 5m			
v	Prior approval from the state/Central Govt shall be obtained for the use of forest land, if any	No forest land is involved.				
vi	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 necessary permission from the S Department vide letter no. 1204 dated 1 letter no 2614 dated 02.09.2014 (Annex)	tate Forest 7.04.2008 &			
vii	As mentioned in EIA / EMP, 10.20 Crores and 0.21 Crores earmarked towards the	For environment protection, 29.2 Cr rup as capital cost. Details are as below:	pees spent			
	capital cost and recurring cost per annum respectively for Environmental & Pollution	Details	Capital Cost			
	Control Measures shall be judicially utilized to implement the conditions	Pollution control measures (WWTP, ARP, fume extraction systems) etc.	12.00			
	stipulated by MoEF as well as the State Government. The funds shall not be	Online environment monitoring equipment and display	2.26			
	diverted for any other purpose.	Rejuvenation of water bodies	6.94			
		ARP environmental upgradation	7.49			
		PL rinse scrubber	0.510			
		Total capital cost (Cr.)	29.20			
		Recurring cost for upkeep the pollufacilities till FY25H1 is 84 crores.	tion control			

Gener	al Conditions:	
S.No	Compliance Conditions	Compliance Status
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.	Further expansion of the plant was carried out with 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	Mentioned notification is for Sponge iron industry. However, applicable points of the standards, issued by the Ministry vide G.S.R. 414(E) dated 30 May 2008 are being complied. 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. At any time, the emission level will not go beyond the prescribed standards.
	in case emission level exceeds the limit.	
iv.	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _X are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission should be regularly submitted to this ministry including its Regional Office at Bhubaneswar, SPCB and CPCB once in six months.	Ambient air quality monitoring is being done at 4 locations. Monitoring reports are being submitted to JSPCB, CPCB and MoEF&CC regularly. Monitoring reports for all relevant parameters from Apr'24 to Sep'24 is attached in Annexure-3 .
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: Fume extraction system including scrubber in pickling line. Bag filter in shot blasting machine and Acid recovery plant. Roof-top ventilation system. Water sprinkling and mechanized sweeping machine. Hot Rolled Coils from Main Steel Works are used as raw material in the manufacturing process. As Ore and Minerals are not being handled inside plant premises, there is no generation of secondary fugitive dust emission.
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. However, fugitive dust emission monitoring is being carried out on regular basis, records are maintained and submitted to JSPCB and MoEF&CC.

Genera	General Conditions:		
S.No	Compliance Conditions	Compliance Status	
vii.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	CRM Bara is Zero Effluent Discharge unit and not discharging any effluent outside premises. Effluent treatment plant is installed for the treatment of wastewater. The treated water is being recycled in operation, plantation, dust suppression and other low end uses.	
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.	Rainwater harvesting capacity enhanced to 11,500 m³ by rejuvenating abandoned sites of inside CRM Bara Complex, which comprises of two large and three small ponds. Photograph attached as Annexure-2.	
ix.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on 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 (nighttime).	High noise generating equipment has been provided with acoustic enclosures and silencer to reduce noise at source. Moreover, closed cabins are provided for workers wherever required and people are encouraged to use ear plugs or earmuffs to avoid any accompanied noise hazards.	
х	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.	
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 programs, educational programs, drinking water supply and health care etc.	Enterprise Social Commitment (ESC) activities are being done in Jamshedpur and Immediate Periphery. Year wise expenditure of the same given below (in Rs crores): Interventions	
		Water 0.0 0.1 0.1 0.0 0.0 0.1 0.1 0.0 0.3	
		Livelihood- Skill 1.6 1.6 1.6 1.4 1.2 3.9 4.9 2.3 18.4	
		Development	
		Rural	
		Environment 2.1 2.0 2.7 2.8 4.0 4.3 14.3 2.0 34.2 Ethnicity 2.7 4.5 5.3 1.7 4.8 13.3 14.6 2.7 49.6	
		Misc 0.0 0.0 0.0 0.1 0.4 0.0 2.8 0.3 3.6 Total 16.1 83.1 17.7 22.4 29.4 47.2 74.0 18.2 308.1	
xiv.	The Regional Office at Bhubaneswar / CPCB / SPCB will monitor the stipulated conditions. A six-monthly compliance	The six-monthly compliance reports of all existing environment clearances granted by Ministry are being submitted to JSPCB's regional office,	
	report and the monitored data along with	Ministry's Regional office, Zonal office CPCB Kolkata and JSPCB Ranchi regularly and being submitted.	

Gener	al Conditions:	
S.No	Compliance Conditions	Compliance Status
	statistical interpretation shall be submitted to them regularly.	
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 <i>viz.</i> Chamakta Aina (Hindi) and Avenue Mail (English) on 11 August 2007 and communication to this effect was also sent to MoEF&CC vide our letter no. EMD/C38/2119/07 dated 18 August 2007. Attached as Annexure-8.
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.

कार्यालय: प्रधान मुख्य वन संरक्षक, वन्य प्राणी एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची।

Email: pccfwljharkhand@gmail.com Phone No. 0651-2481744

पत्रांक......दिनांक......

सेवा में.

अपर मुख्य सचिव, वन, पर्यावरण एवं जलवायु परिवर्तन विभाग, झारखण्ड सरकार, रॉची।

विषय:-

Submission of the revised Site Specific Wildlife conservation Plan of M/s Tata Steel Limited (Steel Plant & Cold Rolling Mills Complex), Jamshedpur East Singhbhum for approval.

प्रसंग:-

अपर प्रधान मुख्य वन संरक्षक, सिंहभूम रीजन, जमशेदपुर का पत्रांक 84 दिनांक 09.01.2017

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र द्वारा M/s Tata Steel Limited द्वारा समर्पित स्थल विशिष्ट वन्यप्राणी (संरक्षण) प्रबंधन योजना (Site Specific Wildlife Conservation Plan) प्राप्त हुआ था। उक्त योजना का Power Point Presentation वन्यप्राणी (संरक्षण) प्रबंधन योजना की स्वीकृति हेतु गठित समिति के समक्ष दिनांक 29.03.2017 को किया गया। बैठक की कार्यवाही की छायाप्रति संलग्न है। बैठक में लिये गये निर्णय के आलोक में प्रयोक्ता अभिकरण द्वारा अनुपालन प्रतिवेदन समर्पित किया गया। प्रयोक्ता अभिकरण द्वारा संतोषजनक अनुपालन के पश्चात् उक्त बन्य प्राणी प्रबंधन योजना को स्वीकृति प्रदान की गयी।

सूचनार्थ प्रेषित।

अनुलग्नकः—यथोक्त। वन्यप्राणी प्रबंधन योजना की एक प्रति संलग्न।

आपका विश्वासी
ह0 / —
प्रधान मुख्य वन संरक्षक,
वन्य प्राणी एवं मुख्य वन्यप्राणी प्रतिपालक,
झारखण्ड, रांची।

> प्रधान मुख्य वन संरक्षक, वन्य प्राणी एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची।

ज्ञापांक 1945 दिनांक 13.11.2017

प्रतिलिपि:— Shubhanand Mukesh, Head-Environment Management M/s Tata Steel Limited को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

> प्रधान मुख्य वन संरक्षक, वन्य प्राणी एवं मुख्य वन्यप्राणी प्रतिपालक, आरखण्ड, रांची।



Utsav Kashyap

Head Environment Clearance & Compliance TSL

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

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

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

Ref: Approval of SSWLCP by Principle Chief Conservator of Forest - Wildlife & Chief Wildlife Warden (PCCF-WL & CWW), Jharkhand vide letter no. 1945 dated: 13.12.2017.

Demand note raised of your good office vide letter no. 3182 dated: 23.12.2023

Dear Ma'am,

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

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

Thanking you
Yours Faithfully

For Tata Steel Limited

Utsav Kashyap

Head Environment Clearance & Compliance (TSL)

Encl: As above

24/2/23

Mobno > 6207901848 8092087043



e-Challan

Finance Department, Government of Jharkhand

Receiving Dept:

Forest, Environment and Climate Change Department



Valid UpTo :-01/03/2023

Remitter's Copy

GRN:-2315871703

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

Receiving Office :-

JSRFOR051-D.F.O.JAMSHEDPUR PRM.JSR.-FOREST

District :- Purbi Singhbhum

Treasury:- Jamshedpur

Year:-20/02/2023

to:- 28/02/2023

Head(8782)

Amount

₹

Head Details

878200103010101

FOREST REMITTANCES

20000000.00

1292497

Net Payable Amount:-

Two Crore Rupees And Zero Paisa Only

20000000.00

For Treasury Use Only(Jamshedpur)

Challan No and Date: 108 Identity Proof(Registration No) - 000260

(20/02/2023)

PAN No:-

Address :-

Remitter Name:-

TATA STEEL LIMITED

Remarks :-

BISTUPUR, JAMSHEDPUR, 831001

Deposit Work

Treasury Officer Signature is not reugired.

FOR USE IN TREASURY LINK BANK

CHEQUE/DD No :-

650925 DT. 16/02/2023

Scroll No and (Date) :-

Bank Name:-SBI, JAMSEDPUR, DISTRICT TREASURY OFFICE

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

Signature & Seal of Bank

Annexure-2

CRM Bara Water reservoirs





Tata Steel Limited Environmental Monitoring Report of CRM Bara CRM BARA EFFLUENT QUALITY REPORT FROM APR 2024 to SEP 2024

	Parameter	Unit	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
	рН	-	7.17	7.42				
0-2	Total Suspended solids	mg/L	< 10	6				
Gate No-2	Oil & Grease	mg/L	0.8	1				
	Hexavalent Chromium, Cr+6	mg/L	< 0.05	< 0.05		N	IA	
Drain at	Biological Oxygen Demand, BOD	mg/L	7.0	6.0				
	Chemical Oxygen Demand, COD	mg/L	39.0	30.0				

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 21.02.2024 having validity till 20.02.2026.

*CRM Bara is Zero effluent discharge since Jun'24 and not discharging any effluent outside premises.

Sr. Manager Monitoring and Analysis

J. Nagazima oleddy

Head Environment Monitoring, Testing & Analysis (TSJ)

my



Tata Steel Limited

Environmental Monitoring Report of CRM Bara

CONTINOUS AMBIENT AIR QUALITY REPORT FOR CRM BARA FROM APR 2024 to SEPT 2024

Sl. No.	Parameter	UoM	Standard	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1	CAAQMS#1
SI. NO.	rarameter	COM		Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	Particulate Matter (PM10)	$\mu g/m^3$	100	180.9	95.5	93.4	50.1	47.5	49.4
2	Particulate Matter (PM2.5)	$\mu g/m^3$	60	67.5	38.2	36.7	20.1	19.9	20.6
3	Sulphur Dioxide (SO2)	$\mu g/m^3$	80	33.4	24.7	25.4	29.3	26.2	24.6
4	Nitrogen Dioxide (NOx)	$\mu g/m^3$	80	38.7	17.9	18.8	14.2	11.6	9.3

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

Manager Monitoring and Analysis



Tata Steel Limited Environmental Monitoring Report of CRM Bara AMBIENT AIR QUALITY REPORT FOR CRM BARA FROM APR 2024 to SEP 2024

Location	Parameter	UoM	Standard	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
	Particulate Matter, PM ₁₀ ^{\$}	μg/m ³	100	116.60	58.55	93.76	45.78	61.72	57.79
	Particulate Matter, PM _{2.5} ^{\$}	$\mu g/m^3$	60	45.83	22.40	37.62	15.65	24.39	28.06
	Sulphur Dioxide (SO ₂) ^{\$}	$\mu g/m^3$	80	12.69	15.93	23.90	20.89	24.75	22.43
	Nitrogen Dioxide (NO ₂) ^{\$}	$\mu g/m^3$	80	25.66	30.56	34.40	32.90	38.75	34.64
NEAR	Carbon Monoxide (CO)	mg/m ³	2	0.25	0.26	0.22	0.21	0.24	0.23
DISPATCH	Ammonia (NH ₃) ^{\$}	μg/m ³	400	30.68	48.36	67.85	55.35	61.53	55.99
SHUTTER	Ozone $(O_3)^{\$}$	$\mu g/m^3$	180	11.97	12.94	9.35	9.35	14.72	13.32
SHOTTER	Nickel (Ni) ^{\$}	ng/m ³	20	0.04	0.01	0.03	0.02	0.01	0.01
	Arsenic (As)	ng/m ³	6	NT	NT	NT	NT	NT	NT
	Lead (Pb) ^{\$}	$\mu g/m^3$	1	< 0.01	0.10	< 0.01	< 0.01	0.09	0.01
	Benzene (C_6H_6)	$\mu g/m^3$	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo alpha Pyrene (BaP)	ng/m ³	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Parameter	UoM	Standard	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
	Particulate Matter, PM ₁₀ ^{\$}	μg/m ³	100	92.58	82.00	91.90	34.55	43.39	66.24
	Particulate Matter, PM _{2.5} ^{\$}	μg/m ³	60	33.67	37.32	36.97	13.43	18.45	25.91
	Sulphur Dioxide (SO ₂) ³	μg/m ³	80	13.44	21.95	15.32	25.53	24.97	28.71
	Nitrogen Dioxide (NO ₂) ^{\$}	μg/m ³	80	22.37	30.28	26.87	36.80	32.89	39.87
NEAR FIRE	Carbon Monoxide (CO)	mg/m ³	2	0.27	0.29	0.25	0.23	0.25	0.27
FIGHTING	Ammonia (NH ₃) ^{\$}	μg/m ³	400	44.36	51.69	51.88	62.53	47.90	49.55
STATION	Ozone $(O_3)^{\$}$	μg/m ³	180	17.09	10.98	11.91	11.65	9.35	12.80
	Nickel (Ni) ^{\$}	ng/m ³	20	0.03	0.02	0.02	0.09	0.03	0.02
	Arsenic (As)	ng/m ³	6	NT	NT	NT	NT	NT	NT
	Lead (Pb) ^{\$}	μg/m ³	1	0.07	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzene (C_6H_6)	μg/m ³	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo alpha Pyrene (BaP)	ng/m ³	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Parameter	UoM	Standard	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
	Particulate Matter, PM ₁₀ ^{\$}	μg/m ³	100	167.39	88.22	145.33	53.13	58.04	31.48
	Particulate Matter, PM _{2.5} \$	μg/m ³	60	59.67	34.66	57.39	22.37	23.92	12.53
	Sulphur Dioxide (SO ₂) ^{\$}	μg/m ³	80	24.54	11.72	14.38	14.88	22.60	28.06
	Nitrogen Dioxide (NO ₂) ^{\$}	μg/m ³	80	38.20	27.98	38.62	33.66	37.86	36.22
NEAR	Carbon Monoxide (CO)	mg/m ³	2	0.28	0.27	0.24	0.20	0.22	0.25
ROLL	Ammonia (NH ₃) ^{\$}	μg/m ³	400	37.36	47.36	62.86	61.86	59.20	60.74
SHUTTER	Ozone (O ₃) ^{\$}	$\mu g/m^3$	180	11.48	12.21	10.89	10.33	11.78	14.60
	Nickel (Ni) ^{\$}	ng/m ³	20	0.10	0.01	0.03	0.03	0.03	0.01
	Arsenic (As)	ng/m ³	6	NT	NT	NT	NT	NT	NT
	Lead (Pb) ^{\$}	$\mu g/m^3$	1	1.43	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzene (C_6H_6)	μg/m ³	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Benzo alpha Pyrene (BaP)	ng/m ³	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Note

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

NT - Not Traced

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

Sr. Manager Monitoring and Analysis

J. Nawjuma Reddy



Tata Steel Limited Environmental Monitoring Report of CRM Bara AMBIENT NOISE LEVEL MONITORING REPORT FOR CRM BARA FROM APR 2024 to SEP 2024

			Ap	r-24	Ma	y-24	Jui	n-24	Jul	-24	Aug	g-24	Sep	-24
Sl.No.	Sampling Location		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
			dB(A	A) Leq	dB(A	(A) Leq	dB(A	A) Leq	dB(A) Leq	dB(A) Leq	dB(A) Leq
1	Entrance Main Gate		69.4	61.5	68.2	60.5	71.2	58.4	69.8	58.2	68.1	62.4	67.0	61.2
2	Circle Near Main Gate	uļt	68.3	59.8	67.4	58.1	66.4	64.3	70.3	56.5	63.5	55.1	62.4	56.3
3	Circle Near Gate No-1	es	70.7	59.4	71.0	59.2	68.3	57.2	71.2	55.7	60.2	54.4	61.3	55.1
4	Gate No-1	R	71.3	63.2	69.8	62.4	64.1	56.9	69.8	54.6	64.3	59.2	65.5	58.7
5	Gate No-2		67.9	59.5	68.2	58.3	63.2	58.0	72.2	58.1	60.9	56.9	61.9	55.6

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

J. Nywjima Leddy



Tata Steel Limited Environmental Monitoring Report of CRM Bara Online Stack Emission Monitoring Report from Apr 2024 to Sep 2024

Month	Stack	PM (mg/Nm3)	SO2 (mg/Nm3)	NOx (mg/Nm3)
	Mill Demister	3.0		
	Boiler stack	1.6	23.4	66.9
Apr-24	ARP stack	40.3		
	Shot Blasting	3.0		
	Pickling scrubber stack	7.1		
	Mill Demister	16.5		
May-24	Boiler stack	1.5	19.0	67.0
May-24	ARP stack	17.2		
	Pickling scrubber stack	8.0		
	Mill Demister	18.7		
	Boiler stack	3.5	25.0	66.5
Jun-24	ARP stack	4.7		
	Shot Blasting	2.1		
	Pickling scrubber stack	6.4		
	Mill Demister	15.3		
	Boiler stack	1.6	18.9	48.5
Jul-24	ARP stack	5.4		
	Shot Blasting	6.6		
	Pickling scrubber stack	6.1		
	Mill Demister	11.7		
	Boiler stack	1.6	13.8	42.7
Aug-24	ARP stack	6.0		
	Shot Blasting	2.2	-	
	Pickling scrubber stack	5.8		
	Mill Demister	7.7		
	Boiler stack	3.5	12.6	33.2
Sep-24	ARP stack	2.6		
	Shot Blasting	14.0		
	Pickling scrubber stack	7.0		

Note:

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

Pari Thapa

Manager Steel Making,CRM Bara & Tubes Division



Tata Steel Limited Environmental Monitoring Report of CRM Bara

Manual Stack Emission Monitoring Report from Apr 2024 to Sep 2024

Month	Location	UoM	Standard	Parameter	Result
	ARP-2				6.1
	ARP-1				15.4
Apr-24	Pickling	Ī			6.1
Apr-24	Mill	Ī			5.0
	Boiler				5.0
	Shot Blasting	Ī			10.6
	ARP-2				14.4
	ARP-1				18.2
May-24	Pickling				5.0
	Boiler	Ī			5.0
	Shot Blasting				9.8
	ARP-2				2.1
	ARP-1	Ī			9.3
Jun-24	Pickling	Ī			1.7
Jun-24	Mill	Ī			3.6
	Boiler				4.8
	Shot Blasting				7.5
	ARP-2	mg/Nm ³	100	PM	1.9
	ARP-1				NA
T 1 24	Pickling				3.2
Jul-24	Mill	Ī			3.1
	Boiler	1			3.1
	Shot Blasting	1			5.3
	ARP-2	1			2.4
	ARP-1	Ī			2.7
Aug-24	Pickling	Ī			2.5
Aug-24	Mill]			2.3
	Boiler	<u> </u>			2.6
	Shot Blasting				14.5
	ARP-2]			2.8
	ARP-1]			NA
Sep-24	Pickling]			2.5
5cp 24	Mill	1			2.5
	Boiler	<u> </u>			2.7
	Shot Blasting				8.0

Note:

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

Parmi Thapa

Manager Steel Making,CRM Bara & Tubes Division



Tata Steel Limited Environmental Monitoring Report of CRM Bara Fugitive Emission Monitoring Report from Apr 2024 to Sep 2024

S.No.	Location	UoM	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
1	Near RCPH Pump House		0.4	0.4	0.43	0.64	0.61	0.29
2	Near Pickling Line Exit		0.4	0.6	0.38	0.75	0.43	0.31
3	Near Mills Stand		0.7	0.5	0.48	0.68	0.56	0.58
4	Near Mill Stand outside		0.7	0.4	0.51	0.69	0.50	0.63
5	1 Mtr. Away From Compressor # 1		0.5	0.6	0.39	0.62	0.48	0.33
6	1 Mtr. Away From Compressor # 2		0.5	0.6	0.28	0.63	0.63	0.44
7	1 Mtr. Away From Compressor # 3		0.5	0.6	0.41	0.62	0.52	0.36
8	1 Mtr. Away From Compressor # 4		0.4	0.6	0.33	0.61	0.60	0.22
9	Inside Room Compressor	mg/m3	0.5	0.5	0.40	0.63	0.38	0.29
10	Inside Boiler House		0.5	0.4	0.36	0.57	0.44	0.42
11	ARP Pump Room		0.4	0.6	0.61	0.72	0.53	N/O
12	Sticher Area		0.5	0.6	0.55	0.78	0.60	0.66
13	Rince Tank Area		0.4	0.5	0.48	0.74	0.41	0.53
14	Main Office		0.4	0.7	0.71	0.54	0.52	0.66
15	Near Gate # 1		0.7	0.6	0.63	0.56	0.61	0.83
16	Near Gate # 2		0.5	0.5	0.57	0.59	0.58	0.49
17	Coil Receiving Area		0.5	0.4	0.60	0.61	0.54	0.38

As per CTO, Ref No. JSPCB/HO/RNC/CTO-10350692/2022/109 Dated on 28-01-2022. N/0- NOT IN OPERATION

Manager

Pari Thapa

Steel Making, CRM Bara & Tubes Division



Month	Sampling Locations	pН	Temperatur e	Conductivity	Total Dissolved Solids	Total Suspended Solids	Alkalinity as CaCO ₃	Total Hardness as CaCO ₃	Calcium as Ca
			oC	μMho/Cm	mg/L	mg/L	mg/L	mg/L	mg/L
	Parvati GhatBore water	7.0	29.4	2269	1112	<10	560	1104	262
	Jugsalai Bore Water	7.1	27.4	1090	534	<10	386	335	152
Apr-24	Jemco Bore Water	7.5	27.2	1634	801	<10	28	524	186
	SonariBore water	7.0	27.0	1054	516	<10	384	237	99
	Baganhattu Bore water	6.9	25.1	922	452	<10	88	355	87
	Jugsalai Bore Water	7.1	27.5	1044	512	<10	380	355	127
	Parvati GhatBore water	7.1	26.2	2409	1180	<10	550	1151	234
May-24	Jemco Bore Water	7.3	27.2	1654	810	<10	52	528	172
	SonariBore water	7.1	28.0	1008	494	16	380	220	92
	Baganhattu Bore water	7.0	27.9	716	351	<10	66	314	78
	Parvati GhatBore water	7.1	28.3	2459	1205	<10	567	213	257
	Jugsalai Bore Water	7.2	28.7	1028	504	<10	413	289	101
Jun-24	Jemco Bore Water	7.0	28.6	1005	492	<10	374	346	117
	SonariBore water	7.1	26.4	895	439	<10	257	203	76
	Baganhattu Bore water	6.7	25.9	901	441	<10	90	352	69
	Parvati GhatBore water	7.1	26.1	2464	1207	<10	556	1018	235
	Jugsalai Bore Water	7.0	25.6	1077	528	<10	376	480	130
Jul-24	Jemco Bore Water	7.2	25.8	1684	825	<10	34	524	168
	SonariBore water	7.1	24.3	906	444	<10	250	402	101
	Baganhattu Bore water	6.6	24.9	923	452	<10	92	341	84
	Parvati GhatBore water	7.2	24.7	1280	627	<10	336	514	221
	Jugsalai Bore Water	7.2	25.1	1262	618	<10	414	521	125
Aug-24	Jemco Bore Water	6.8	25.2	225	110	<10	16	65	161
	SonariBore water	7.0	26.3	950	466	<10	248	400	101
	Baganhattu Bore water	6.6	25.5	990	485	<10	92	352	84
	Parvati GhatBore water	7.0	27.4	2086	1022	16	394	1052	222
	Jugsalai Bore Water	7.2	26.8	1504	737	<10	406	618	121
Sep-24	Jemco Bore Water	7.6	27.9	1551	760	<10	40	466	168
	SonariBore water	7.0	27.7	977	479	<10	263	399	87
	Baganhattu Bore water	6.6	27.8	1027	503	<10	99	357	79

Sr. Manager Monitoring and Analysis Hond



Month	Sampling Locations	Chlorides as Cl	Sulphates as SO ₄ ⁻²	Nitrate Nitrogen as N	Nitrite Nitrogen as N	Fluorides as F	Silica as SiO ₂	Iron as Fe	Manganese as Mn
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Parvati GhatBore water	215	414	34.70	0.11	1.50	44.00	0.09	0.27
	Jugsalai Bore Water	82	128	3.10	< 0.01	0.70	34.00	0.53	0.30
Apr-24	Jemco Bore Water	186	71	3.40	0.01	1.10	9.00	0.25	0.01
	SonariBore water	89	56	< 0.2	0.26	1.10	26.00	0.05	0.12
	Baganhattu Bore water	199	55	6.30	< 0.01	0.40	-	0.06	0.52
	Jugsalai Bore Water	71	106	6.90	0.02	0.70	38.00	0.04	0.04
	Parvati GhatBore water	150	327	31.00	0.08	0.70	41.00	0.04	0.30
May-24	Jemco Bore Water	177	82	4.50	0.03	0.70	9.00	0.00	0.01
	SonariBore water	91	12	4.30	0.04	0.80	25.00	0.41	0.50
	Baganhattu Bore water	66	13	5.10	0.05	0.60	53.00	0.10	0.55
	Parvati GhatBore water	172	99	34.40	0.11	0.60	27.00	0.05	0.30
	Jugsalai Bore Water	100	37	3.50	0.03	0.50	25.00	0.60	0.41
Jun-24	Jemco Bore Water	65	98	5.90	< 0.02	0.40	25.00	0.08	0.01
	SonariBore water	80	60	9.10	0.02	0.70	28.00	0.01	0.21
	Baganhattu Bore water	186	46	6.30	0.09	0.60	21.00	0.38	0.75
	Parvati GhatBore water	143	61	28.60	< 0.02	0.90	108.00	0.07	0.19
	Jugsalai Bore Water	66	131	2.40	< 0.02	0.80	55.00	0.04	0.01
Jul-24	Jemco Bore Water	168	142	3.40	< 0.02	1.10	29.00	0.04	0.02
	SonariBore water	73	92	6.00	0.04	1.20	39.00	0.07	0.57
	Baganhattu Bore water	191	-	1.70	0.05	0.40	82.00	0.39	0.77
	Parvati GhatBore water	100	115	0.60	0.01	0.50	22.00	0.05	0.16
	Jugsalai Bore Water	93	113	0.90	0.02	0.40	49.00	0.02	0.01
Aug-24	Jemco Bore Water	28	50	0.50	0.01	0.40	3.00	0.04	0.02
	SonariBore water	70	38	3.20	0.01	0.60	34.00	0.07	0.57
	Baganhattu Bore water	187	45	1.00	0.02	0.40	7.00	0.39	0.77
	Parvati GhatBore water	100	307	19.00	0.06	1.00	26.00	0.05	0.14
	Jugsalai Bore Water	134	153	8.30	< 0.02	0.80	25.00	0.02	0.01
Sep-24	Jemco Bore Water	158	9	2.70	0.02	1.10	13.00	0.04	0.02
	SonariBore water	75	19	11.70	<1.0	0.40	41.00	0.07	0.57
	Baganhattu Bore water	189	9	0.50	0.12	0.40	43.00	0.39	0.77

Sr. Manager Monitoring and Analysis



Month	Sampling Locations	Hexavalent Chromium as Cr+6	Copper as Cu	Total Chromium as Cr	Cadmium Cd	Nickel as Ni	Zinc as Zn	Lead as Pb
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Parvati GhatBore water	< 0.05	< 0.01	0.06	< 0.01	< 0.01	0.04	0.03
	Jugsalai Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.05	0.08
Apr-24	Jemco Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.10	0.03
	SonariBore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.07	0.03
	Baganhattu Bore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.07	0.08
	Jugsalai Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.02
	Parvati GhatBore water	< 0.05	< 0.01	0.08	< 0.01	< 0.01	0.04	0.01
May-24	Jemco Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01
	SonariBore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.08	0.03
	Baganhattu Bore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.04	0.02
	Parvati GhatBore water	< 0.05	< 0.01	0.07	< 0.01	< 0.01	0.02	0.02
	Jugsalai Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.01
Jun-24	Jemco Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.01
	SonariBore water	< 0.05	< 0.01	0.01	< 0.01	0.02	0.00	0.01
	Baganhattu Bore water	< 0.05	< 0.01	0.01	< 0.01	0.01	0.06	< 0.01
	Parvati GhatBore water	< 0.05	< 0.01	0.04	< 0.01	< 0.01	0.01	0.03
	Jugsalai Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.03
Jul-24	Jemco Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.01
	SonariBore water	< 0.05	0.01	< 0.01	< 0.01	0.03	0.02	0.02
	Baganhattu Bore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.05
	Parvati GhatBore water	< 0.05	< 0.01	0.03	< 0.01	< 0.01	0.01	0.02
	Jugsalai Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.02
Aug-24	Jemco Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.01
	SonariBore water	< 0.05	0.01	< 0.01	< 0.01	0.03	0.02	0.02
	Baganhattu Bore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.05
	Parvati GhatBore water	< 0.05	< 0.01	0.02	< 0.01	< 0.01	0.01	0.02
	Jugsalai Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.03
Sep-24	Jemco Bore Water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.02	0.01
	SonariBore water	< 0.05	0.01	< 0.01	< 0.01	0.03	0.02	0.02
	Baganhattu Bore water	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	0.03	0.05

Sr. Manager Monitoring and Analysis



Month	Sampling Locations	Nitrogen (Ammonia) as N	FREE CHLORINE	Sulphide as S- 2	Phenolic Compounds as Phenols	Free Cyanide	Aluminum
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Parvati GhatBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	0.06
	Jugsalai Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
Apr-24	Jemco Bore Water	<1.0	0.03	< 0.10	< 0.10	< 0.1	< 0.01
	SonariBore water	<1.0	0.33	< 0.10	< 0.10	< 0.1	0.25
	Baganhattu Bore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	0.06
	Jugsalai Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Parvati GhatBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
May-24	Jemco Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	0.06
	SonariBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Baganhattu Bore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	0.02
	Parvati GhatBore water	<1.0	0.57	< 0.10	< 0.10	< 0.1	< 0.01
	Jugsalai Bore Water	<1.0	0.35	< 0.10	< 0.10	< 0.1	< 0.01
Jun-24	Jemco Bore Water	<1.0	0.35	< 0.10	< 0.10	< 0.1	< 0.01
	SonariBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Baganhattu Bore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Parvati GhatBore water	< 0.02	0.24	< 0.10	< 0.10	< 0.1	< 0.01
	Jugsalai Bore Water	< 0.02	0.29	< 0.10	< 0.10	< 0.1	< 0.01
Jul-24	Jemco Bore Water	< 0.02	0.23	< 0.10	< 0.10	< 0.1	0.02
	SonariBore water	0.04	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Baganhattu Bore water	0.05	0.07	< 0.10	< 0.10	< 0.1	< 0.01
	Parvati GhatBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Jugsalai Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
Aug-24	Jemco Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	0.01
	SonariBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Baganhattu Bore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Parvati GhatBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Jugsalai Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
Sep-24	Jemco Bore Water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	0.02
	SonariBore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01
	Baganhattu Bore water	<1.0	< 0.1	< 0.10	< 0.10	< 0.1	< 0.01

Sr. Manager Monitoring and Analysis





Ramky Enviro Engineers Limited

Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

Report No.	RW	MP/L	ab/CA	/102/	20-21		Re	port Date	2	3	0	9		2	2	0	2	e e
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Rev. No. 01/04.08.2018

MANAGING HAZARDOUS WASTE 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



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





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 IMS 5705907 | C NO IMS 5705907

Repor	t No. RWMP/Lab/CA/102/2	0-21	Report I	Date	2	3		0	9		2	0	2	
Sr. No.	Particulars	Ot	servation	Ren	narks	s (If	any))		9				
1*	Does the waste have strong Odor?	□Y	YN.						242					
2*	Does the waste give fumes exposed to the atmosphere?	□Y	ΦĶ		54									
3*	Does the waste react with water	r? □Y	√N											
4*	Is the waste incompatible with any material? If so specify	□Y	□N											

TEST REPORT

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

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MANAGING HAZARDOUS WASTE

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

Site Address:



Corporate Office: Ramky Enviro Engineers Ltd.

Ramky Grandiose - Floors - 12,13, Ramky Towers Complex Gachibowli, Hyderabad - 500032





Ramky Enviro Engineers Limited Unit :- Rajasthan Waste Management Project, TSDF-Udalpur

COMPREHENSIVE CAN 1991 Y ST 97.07 P. COMPREHENSIVE COMPREHENSIVE CAN 1991 Y ST 97.07 P. COMPREHENSIVE COMPREHENSIV

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 E	3610.67	Not Specified 🕏
18*	Nitrate as NO ₃ -	mg/kg	APHA 23 rd Edition,4500 NO ₃ B	5.04	<30 O
19	Sulphate as SO ₄	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	mg/kg	APHA 23 rd Edition; 4500 PO ₄ 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	mg/kg	USEPA 1998, SW-846; 9014	<1.0	<250
25*	Reactive Sulphide as	mg/kg	USEPA 1998, SW-846; 9034	<10.0	<500
26*	Carbon	%	CHNS Analyzer	NA	Not Specified
27*	Hydrogen	%	CHNS Analyzer	NA	Not Specified
28*	Nitrogen	%	CHNS Analyzer	NA	Not Specified
29*	Sulphur	%	CHNS Analyzer	NA	Not Specified
30	Copper as Cu- Total	mg/kg	USEPA 1998, SW-846; 7210	122.10	Not Specified
31	Total Chromium as Cr- Total	mg/kg	USEPA 1998, SW-846; 7190	108.57	Not Specified
32	Iron as Fe- Total	mg/kg	USEPA 1998, SW-846; 7380	217944.90	Not Specified
33	Lead as Pb- Total	mg/kg	USEPA 1998, SW-846; 7420	93.47	Not Specified
34	Manganese as Mn – Total -	mg/kg	USEPA 1998, SW-846; 7460	1495.41	Not Specified

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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



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Ph. No.: 040-23015000, Fax No: 040-23015100 E-mail: info@ramky.com Website: www.ramky.com REEL CIN: U74140AP1994PLC018833







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 FRS70987 | C No GHS 570797 | C No GHS 570590 | C No IM 570807

Report Date 3 0 9 2 0 RWMP/Lab/CA/102/20-21 2 Report No.

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 0
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	y Characteristics Leaching Pro	cedure	F
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
	(WL	.T) Wate	r 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

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MANAGING HAZARDOUS WASTE

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





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





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 FSS70907 | C.N. FMS 570707 | C.N. OHS 570500 | C.N. OHM 570907

COMPREHENSIVE ANALYSIS REPORT

Report No.		rt No. RWMP/Lab/C		-21	Report Date	2	3		0	9	×	2	0	2	6
53*	Hexavale as Cr ⁶⁺	ent Chromium	mg/L	APHA 2	23 rd Edi., 2017: 3	500	Cr B		<(0.1			<1	0.5	olden
54*	Cobalt a	Cobalt as Co mg/L APHA 23 rd Edition,3111 B					ВІ	DL		N	ot Sp	pecifie			
55*	Copper a	as Cu	mg/L	APHA 23 rd Edition,3111 B				0.008				<	10	0	
56*	Iron as F	=e	mg/L	API	HA 23 rd Edition,3:	23 rd Edition,3111 B			1.9	920		<3		<3	2
57*	Lead as	Pb	mg/L	API	HA 23 rd Edition,3:	111 E	3		0.072			<2			0
58*	Mangane	ese as Mn	mg/L	API	HA 23 rd Edition,3	111 E	3		0.063			Not Specified			
59*	Nickel as	s Ni	mg/L	API	HA 23 rd Edition,3	111 E	3		0.0	048			<	<3	
60*	Zinc as 2	Zn	mg/L	API	HA 23 rd Edition,3	111 E	3	Ĭ.	0.0	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 - YesN - No

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

Authorized Signatory (Rajkumar Parmar – Dy. Manageri)

Page 5 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

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REEL CIN: U74140AP1994PLC018833





Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

					 		B				
Report No.	RWMP/Lab/CA/102/20-21	Report Date	2	3	0	9		2	0	2	5

Inland Surface discharge water standard Applicable.

Fowards sustainable

4

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
- 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

(2 - Dayms Authorized Signatory (Rajkumar Parmar - Dy. Manager)

Page 6 of 6

Rev. No. 01/04.08.2018

Site Address: MANAGING HAZARDOUS WASTE Ramky Enviro Engineers Limited

Corporate Office: Ramky Enviro Engineers Ltd.







Unit :- Rajasthan Waste Management Project, TSDF-Udalpur

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

COMPREHENSIVE ANALYSIS REPORT

Report No.		I	RWM	IP/L	ab/C	A/99	/20-	-21		R	eport Date	2	3		0		9		2	0	2	O
1										-							40					d
Name of Client	:	M	/s. 1	TAT.	A ST	EEL	LTD).						_								sustainable @rowt
Contact Details															222							87
		CR	RM C	OMF	PLEX	BAR	А, Р	O:A0	SRIC	O,JA	MSHEDPUR-	8310	09						GT.			
																						191
Telephone No.	:						F	ax N	lo.		:											Towards
Email ID	:												9.									
Membership No.	:	-																				
Name of Sampl	le /	Haza	ardou	us V	Vaste	9		: W	ast	es/I	Residues Co	ntai	ning	Oil								
Description o	f Sa	mple	e Wh	nen	Rece	eived		: So	olid								-					
Sample Referer Number	nce			:	99/2	20-21		Sar	nple	Rec	ceived Date		0		8		0	9) .	2	0	2
	Ву						1150					1112										
Sample Drawn																						
Sample Drawn Waste Category	y: S	che	dule	-I,	Cat.	-																
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Waste Category RAW Material L Process Details MSDS Provided Client	ist / Enc by	lose	d				es				<u>d</u>	•										
Waste Category RAW Material L Process Details MSDS Provided Client Sample Registr	ist / Enc by	lose	d				es	20-2	1		/	•										
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Waste Category RAW Material L Process Details MSDS Provided Client	ist / Enc by	n No	d	VMP	/LAE		es '99/'			0		NO	у: МВ	D D	ept	., R	WMI	p			4	

Authorized Signatory (Rajkumar Parmar – Dy. Manager)

Page 1 of 6

Rev. No. 01/ 04.08.2018

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MANAGING HAZARDOUS WASTE

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Ramky Enviro Engineers Limited Unit: - Rajasthan Waste Management Project, TSDF-Udaipur

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

Repor	t No.	RWMP/Lab/CA/99/20-2	1	Report [Date	2	3	•	0	9	2	0	2
Sr. No.		Particulars	Ob	servation	Ren	narks	s (If	any)				
1*	Does th Odor?	e waste have strong	□Y	RN									
2*	Does th	ne waste give fumes d to the atmosphere?	□Y	ÓW.									
3*	Does th	ne waste react with water?	□Y	√N /									
4*	Is the w	vaste incompatible with terial? If so specify	□Y	□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	0.84	Not Specified
10	Calorific Value	cal/g	IS:1350 Part II - 1970	8237.32	<2500
11*	Flash Point	°C	USEPA 1998, SW 846; 1020 A	>60	>60
12	Moisture Content	%	IS 326 (Part 21): 2001	NA	Not Specified
13	LOD @ 105°C	%	APHA 23 rd Edition, 2017; 2540	13.55	Not Specified
14	LOI @ 550°C	%	APHA 23 rd Edition, 2017; 2540	83.51	<20
15*	Ash Content @ 900°C	%	APHA 23 rd Edition, 2017; 2540	16.20	Not Specified

Authorized Signatory (Rajkumar Parmar – Dy. Manager)

Page 2 of 6

Rev. No. 01/04.08.2018

MANAGING HAZARDOUS WASTE

r BSI ™

ASTE Corporate Office :
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Gachibowli, Hyderabad - 500032

Ph. No.: 040-23015000, Fax No:040-23015100
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Site Address:

Email: rwmp@ramky.com







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COMPREHENSIVE ANALYSIS REPORT

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

Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfile 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 - E	307.30	Not Specified
18*	Nitrate as NO ₃ -	mg/kg	APHA 23 rd Edition,4500 NO ₃ - B	6.37	<30 Not Specified
19	Sulphate as SO ₄	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	mg/kg	APHA 23 rd Edition; 4500 PO ₄ 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

Authorized Signatory
(Rajkumar Parmar – Dy. Manager)

Page 3 of 6

Rev. No. 01/ 04.08.2018

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REEL CIN:U74140AP1994PLC018833





Unit :- Rajasthan Waste Management Project, TSDF-Udaipur

5

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

None and the same of the same	DWMD# 1 /04/00/20 24		_	-	41.11	•	_	1 1	-	_	-
Report No.	RWMP/Lab/CA/99/20-21	Report Date	2	3	1 .	U	9		2	0	2

Sr. No.	Parameter	Unit	Method	Result	CPCB limit for direct landfile 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
			y Characteristics Leaching Pro		_
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
	(WL	T) 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

2 - Oction BORATOR Authorized Signatory (Rajkumar Parmar - Dy. Manager)

Page 4 of 6

Rev. No. 01/ 04.08.2018

Site Address:

MANAGING HAZARDOUS WASTE Ramky Enviro Engineers Limited
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COMPREHENSIVE ANALYSIS REPORT

Repor	t No. RWMP/Lab	/CA/99/20	-21	Report Date	2	3	0	9	2	0	2	Car
53*	Hexavalent Chromium as Cr ⁶⁺	mg/L	АРНА	23 rd Edi., 2017: 3	3500	Cr B	<().1		1200	0.5	400
54*	Cobalt as Co	mg/L	AP	HA 23 rd Edition,3	111 E	3	0.0	006	- 1	lot Sp	oecifi	ed.
55*	Copper as Cu	mg/L	AP	PHA 23 rd Edition,3	111 E	3	BI	DL.		<	10	-
56*	Iron as Fe	mg/L	AP	PHA 23 rd Edition,3	111 E	3	59.	850		<	<3	7
57*	Lead as Pb	mg/L	AF	PHA 23 rd Edition,3	111 F	3	0.1	26		<	<2	0
58*	Manganese as Mn	mg/L	AF	PHA 23 rd Edition,3	111 I	В	1.0	002	N	lot S	pecifi	ed
59*	Nickel as Ni	mg/L	AF	PHA 23 rd Edition,3	111 F	В	2.5	501		<	<3	
60*	Zinc as Zn	mg/L	AF	PHA 23 rd Edition,3	111	В	0.6	577		<	10	

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

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

ABBREVIATIONS

CPCB

Central Pollution Control Board

SW 846

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, 1998

Std. Methods

Standard Methods for the Examination of Water & Wastewater, APHA 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

BDL

Not Detected

Below Detectable Limit

No

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

& Dayros Authorized Signatory (Rajkumar Parmar - Dy. Manager)

Page 5 of 6

Rev. No. 01/04.08.2018

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MANAGING HAZARDOUS WASTE

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COMPREHENSIVE ANALYSIS REPORT

2	3		0	9		2	0	2
RWMP/Lab/CA/99/20-21 Report Date discharge water standard Applicable.					RWMP/Lab/CA/99/20-21 Report Date 2 3 . 0 9	RWMP/Lab/CA/99/20-21 Report Date 2 3 . 0 9 .	RWMP/Lab/CA/99/20-21 Report Date 2 3 . 0 9 . 2	RWMP/Lab/CA/99/20-21 Report Date 2 3 . 0 9 . 2 0
					Report Date 2 3 . 0 9	Report Date 2 3 . 0 9 .	Report Date 2 3 . 0 9 . 2	Report Date 2 3 . 0 9 . 2 0
	2	2 3	2 3 .	2 3 . 0	2 3 . 0 9	2 3 . 0 9 .	2 3 . 0 9 . 2	2 3 . 0 9 . 2 0

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- 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
- 5. Under no circumstances RWMP accepts any liability or loss or damage caused by use or misuse of the test report. Liability is limited to the testing fee charged, in case of proven negligence by the laboratory.
- 6. RWMP shall not assume any responsibility for variation in test results of samples kept on hold for want of clarification.
- 7. Client may visit (If desired) our laboratory to witness the related tests.
- 8. This Test report is valid for two years from the date of issue of report, if there is no change in processes, raw materials etc.

Disposal Pathway/Opinions/Interpretations

Incineration After Treatment

END OF REPORT

Authorized Signatory (Rajkumar Parmar - Dy. Manager)

Page 6 of 6

Rev. No. 01/04.08.2018

MANAGING HAZARDOUS WASTE

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Email: rwmp@ramky.com



LETTER NO.7/Plan 10 215/2016 श्राठनि०(मु०काठनि०)—2 6 7 OFFICE OF THE CHIEF INSPECTOR OF FACTORIES, JHARKHAND, RANCHI. LABOUR BUILDING, DORANDA, RANCHI-834002

From,

Chief Inspector of Factories, Jharkhand, Ranchi.

To,

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

Ranchi, Dated 14/03/18

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

Sir,

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

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

Yours Faithfully

Chief Inspector of Factories, Jharkhand, Ranchi

SN	Name	Questions	Action Plan given in EIA	Present status of complia	ince
01	Shri Suresh Sonthalia President, Singhbhum Chamber of Commerce	People will get employment. Region will be developed. Permission for expansion of plant should be granted. Company is doing good	Focus will be made on environment compliance.	CRM Bara plant is running on environmental complian	nce.
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 (Domest Drinking Water, Education (Skill Development), Livelil (Agriculture), Sports, Infra- Urban Services, Environme Ethnicity are undertaken u activities of Tata Steel Ltd.	, Livelihood hood structure & ent and
03.	Shri Bharat Vasani Vice-President, Singhbhum	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	Action plan prepared and will be implemented accordingly.	For environment protection spent as capital cost. Debelow:	
	Chamber of Commerce	expansionof plant. Company has to spend on environmental protection as per its plan so		Details	Capital Cost
	Commerce	that the environment can be protected.		Pollution control measures (WWTP, ARP, fume extraction systems, etc.	12
				Provision of online environment monitoring equipment and display	2.26
				Rejuvenation of water bodies	6.94
				ARP environmental upgradation	7.49
				PL rinse scrubber	0.510
				Total capital cost(Cr.)	29.20

04.	Shri Ramashray Prasad, INTUC	Company has to expand. Company should be developed. People should also get employment. Civic amenities should be developed in the surrounding area. Management should also focus and share information about how many permanent and temporary employees/ workers will be required.	Issues are being taken care under CSR activities.	Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. More than 50% employment has been given to local people.
05.	Shri Dev Sharan Singh Govindpur	Employment opportunities will increase with the expansion of the plant. Employment should be provided to the citizens/ locals residing within 10 km radius. Infrastructural facilities like drinking water, medical facilities for good health and other basic amenities should be provided by the company. Special attention should be given on environment and pollution.	Various environment protection measures have been taken by the company in the plant as per environment norms. Other issues have been taken care by CSR activities.	Various environment protection measures have been taken by the company such as: • 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 aroundplant. 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.

06.	Shri Sonaram Bothra	Employment should be provided to local unemployed people. Priority should also be given in employment for SC and ST people. Management should give attention on poor people. We are not provided any facility.	Local employment has been given on top priorities as per their skill during construction work.	More than 50% employment has been given to local people.
07.	Shri Gunjan Yadav, Sitaramdera	Due to proposed expansion the traffic may increase. Cutting of trees may be involved. Development of green belt is recommended. Public pumps/ taps should be arranged in local areas by the company/ Unit. We will oppose the plant if water is not available. There is a tribal school in Babudih where 450 children study. Management should also pay attention on this. We are not against for the expansion of the plant. But at the same time company should also give attention on basic problems of local people.	Plantation has been done in & around premises (More than three thousand). Other issues have been considered in CSR activities.	 Roads at the Bhuiyadih area are being widened. Other issues had been undertaken under CSR activities. Green belt at CRM Bara complex has been developed as per CPCB guidelines. Approx. 3.5 Ha area in and around plant is under plantation which is more than 33% of the plant area. We have planted 13235 no. of samplings in the above area till date. We have developed approx. 5m wide area of plantation around the plant as per CPCB guidelines. Density of plantation > 3000 plants/Ha which is more than CPCB guidelines. Public pumps/taps have been provided at Bhuiyadih and Babudih.
08.	Shri Chandra Sekhar Mishra, President Housing Development Committee	We welcome the expansion of the project. The facilities which were provided by Tata Steel 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: Fume extraction system including scrubber in pickling line. Bag filter in shot blasting machine. Roof-top ventilation system. Water sprinkling and mechanized sweeping machine Effluent treatment plants for the treatment of oily and acidic waste and STP is installed and operational for treatment of domestic water. Rejuvenation of water bodies Green belt development in and around plant.
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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: 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 theirskill.	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.

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.	company and knowledgeable / qualified persons will be constituted to solve	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 drinkingwater, education, electricity and medical facilities for health should be provided.	No wastewater is being discharged into the rivers. Environmental control measure has been already inplace.	No wastewater is being discharged into the rivers. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Environmental control measure has been already in place. Basic needs are undertaken under CSR activities.

16.	Shri Goutam Lohar Bagunhatu	Water from the company is discharged in the river. This should be stopped. Employment is given to the outside people. Local people should get employment. Water, electricity, education and better medical facilities for good health should be provided. Nobody knows where women are being trained.	Wastewater treatment plant is already in place. No water discharge from our premises. Experts team study is under progress.	All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Basic needs such as Health, Sanitation (Domestic Toilets), Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd.
17.	Shri P.N.Dixit President, Builders Association	Expansion of the plant should invariably take place. I have been observing and experiencing for the last 52 years that whatever work done by Tata Steel was for the welfare of local people. Plant expansion should take place by paying special attention on environment.	Environment control measure has been already in place.	 Environment pollution control measures are already in place. Various environment protection measures have been taken by the company such as: 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.
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.		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.	measure has been already inplace.	Environment control measures are already in place. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. Drinking water facility has been provided to local people.
22.	Smt. Santoshi Devi Babudih	Water facility should be provided in Babudih Basti. Even if a Tap is arranged for the publicin 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.		Earlier also Public Hearing was conducted here in the same place. Assurance was also given for solving / avoiding problems of local	A committee will be constituted with the company representatives	Local problems are being resolved under CSR. Basic needs such as Health, Sanitation (Domestic Toilets),

24.	Shri Feroz Ali Khan Dhatakidih	•	considering view of local people. Efforts will be made to solve the problems in the surrounding areas. Special attention will be given for the community development activities. Direct and indirect employment opportunities will be provided.	Drinking Water, Education, Livelihood (Skill Development), Livelihood (Agriculture), Sports, Infrastructure & Urban Services, Environment and Ethnicity are undertaken under CSR activities of Tata Steel Ltd. • Work for rejuvenation of ponds completed which also cater rain-water harvesting. • Green belt in and around plant has been developed. 10850 no. of samplings have been planted till date. • No polluted water is discharged from the unit/plant. All the effluents generated in plant are treated at Effluent treatment plant and domestic waste is treated in Sewage treatment plant. • More than 50% employment has beengiven to local people.
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.

ANNEXURE-6



Shubhanand Mukesh Head Environment Management

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

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

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

Reference: MoEFCC Environmental Clearance letter no. J-11011/22/2013-IS II (I)

dated September 15, 2015

Dear Sir,

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

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

Thanking you,

Warm regards,
For Tata Steel Limited

/ Il a so butter

Shubhanand Mukesh

Head, Environment Management

Encl: Copy of Environmental Clearance letter

TATA STEEL LIMITED

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



Shubhanand Mukesh Head Environment Management

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

Block Development Officer
East Singhbhum
JAMSHEDPUR- 831 001

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

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

Dear Sir,

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

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

Thanking you,

Warm regards,

For Tata Steel Limited

Shubhanand Mukesh

Head, Environment Management

Encl: Copy of Environmental Clearance letter

TATA STEEL LIMITED

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



Shubhanand Mukesh Head Environment Management

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

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

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

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

Dear Sir,

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

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

 l Thanking you,

Warm regards,

Shubhanand Mukesh

For Tata Steel Limited

Head, Environment Management

Encl: Copy of Environmental Clearance letter

TATA STEEL LIMITED

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

Online Display Board at CRM Bara





	Bates of Demand Notice & Possession Notice	Amount of Notice
Plot Mouza 15003 ot and t he	04.07.2014 & 17.09.2015	Rs.15,87,717.01 + Infl. w.e.f. 30.06.2014
of Plot within in the estave	30.01.2014 & 17.09.2015	Rs.2.50 Lakhs + Inft, w.e.f. 30.05.2014
By- fortion		thorised Offic







DIA

TATA STEEL

PUBLIC NOTICE

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

Environment (Protection) Act, 1996.
General Public is further informed that copy of
the said Environmental Clearance letter is
available with the office of the Jharkhand State
Pollution Control Board, Ranchi and may also be
seen at Website of the MoEFCC at
http://moef.nic.in.

JHARKHAND THE TELEGRAPH 20 SEPTEMBER 2015

Met office predicts heavy rain today



RU seeks slap report

प्रभात खबर \ सिटी

TATA STEEL

सार्वजनिक सूचना

सर्वसाधारण को एतत् द्वारा यह सूचना दी जाती है कि भारत सरकार के पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय ने पर्यावरण (संरक्षण) अधिनियम, 1986 की पर्यावरण प्रभाव आकलन (ईआईए) अधिसूचना, 2006 के अनुरूप 15 सितंबर, 2015 के अपने पत्र संख्या J-11011/22/2013-IS II (I) के जरिए मेसर्स टाटा स्टील लिमिटेड को बारा, जमशेदपुर स्थित सीआरएम कॉम्प्लेक्स की कोल्ड रॉलिंग मिल के 0.3 मिलियन टन प्रतिवर्ष से 0.8 मिलियन टन प्रतिवर्ष तक के विस्तारीकरण के लिए पर्यावरण स्वीकृति (इन्वायर्नमेंट क्लियरेन्स) प्रदान की है। सर्वसाधारण को यह भी सूचित किया जाता है कि उपरोक्त पर्यावरण स्वीकृति पत्र की प्रति झारखंड राज्य प्रदूषण नियंत्रण बोर्ड, राँची के कार्यालय में उपलब्ध है और इसे पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय के वेबसाईट http:/moef.nic.in. पर जाकर देखा जा सकता है।

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

Sun, 20 September 2015

Annexure-9

OFFICE OF THE DIVISIONAL FOREST OFFICER, DHALBHUM FOREST DIVISIONAL JAMSHEDFUR

Letterno. 仅近以

Doted: 17/4/08

To, M/s Tata Steels Ltd. Cold Rolling Mill Complex (CRMC) Bara, East Singhbhum Jamshedpur – 831001

Sub: Impact of Cold Rolling Mill Complex, Bara on Dalma Reserve Forest

Ref: Your letter no. CPED/CRM-391/8231/2008 Dated 14-2-2008

Sir,

This is to inform that the site for proposed Cold Rolling Mill complex has been inspected by Shri. Anoop K.R.,IFS, Attached Officer, Dhalbhum Forest Division. After studying the various environmental aspects of the establishment of the Cold Rolling Mill complex, he has opined that there is no direct apparent threat to Dalma Reserve Forest from the said complex.

Yours faithfully

Divisional Forest Officer Dhalbhum Forest Division Jamshedpur



कार्यालय: वन प्रमण्डल पदाधिकारी, जमशेदपुर वन प्रमण्डल, जमशेदपुर।

(सी० एच० एरिया, रोड नं० 1, जमशेदपुर — 831001) दूरभाष संख्या— 0657—2231017, फैक्स—0657—2231017, ई—मेल— dfo.jamshedpur@gmail.com

पत्रांक- 2614 / जमशेदपुर

दिनांक *02/9/20/4*

सेवा में.

श्री शुभानन्द मुकेश हेड ऐनवाइरमेंट मैनेजमेंट टाटा स्टील लिमिटेड जमशेदपुर ।

विषय :-

Submission of application for clearance by the standing Committee of the National Board of Wild life under the Wild life (Protection) Act, 1972 for expansion of Cold Rolling Mill from 0.3 MTPA to 0.8 MTPA capacity of Tata Steel Limited at CRM Complex at Bara, Jamshedpur

प्रसंग:-

आपका पत्रांक EMD/C-38/207/13 दिनांक 8.11.2013

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संदर्भ में सूचित करना है कि प्रस्तावित विस्तारीकरण स्थल का वन क्षेत्र पदाधिकारी , मानगो द्वारा स्थलीय निरीक्षण किया गया है जिसके अनुसार प्रस्तावित विस्तारीकरण स्थल से वन सीमा की दूरी निम्नवत है :--

> 1.84 K.M North 1.776 K.M North North West 4.0 K.M East 2.04 K.M West 8.00 K.M South East

यहाँ यह उल्लेखनीय है कि प्रस्तावित स्थल (बारा) वार्ड न011 जमशेदपुर अधिसूचित क्षेत्र समिति ,खाता न0 52 ,नया प्लॉट न0 62(पी.,63(पी.),64(पी.) एवं 65(पी.) में अवस्थित है जो कि गैर वनभूमि है । कोल्ड मील के विस्तारीकरण से दलमा वन्य प्राणी आश्रयणी पर प्रभाव की संभावना नहीं है।

> वन प्रमंडल पदाधिकारी म्मशेदपुर वन प्रमंडल,