



Ref: PHS/102/2025

Date: 29 May 2025

Deputy Director General of Forests (C)

Ministry of Environment, Forest, and Climate Change

Integrated Regional Office, 2nd Floor, Headquarter- Jharkhand State Housing Board

Harmu Chowk, Ranchi, Jharkhand – 834002, Ranchi

Sub.: Submission of Half Yearly (October 2024 to March 2025) Environment Clearances Compliance Reports (ECCR) for Integrated Municipal Solid Waste Management Facility of Tata Steel Limited at Begunadih, Potka, Jamshedpur, District- East Singhbhum, Jharkhand

Ref.: Environment Clearance of IMSWMF vide MoEF&CC's EC Identification no: EC23A037JH170166 dated 13.02.2023

Dear Sir/ Ma'am,

With reference to the captioned subject & cited references, we are submitting the Half Yearly EC Compliance report for the period from **October 2024 to March 2025**. You are requested to kindly acknowledgement the same and place in your records.

Thanking you

Yours Faithfully

For Tata Steel UISL

Authorized signatory

Encl: As above

Copy to:

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

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

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

Tel 91 22 66658282 Fax 91 22 66657724

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

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

Proposal No	IA/JH/INFRA2/410593/2022
Compliance ID	128320782
Compliance Number(For Tracking)	EC/COMPLIANCE/128320782/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-05-2025
RO/SRO Name	Shri Senthil Kumar Sampath
RO/SRO Email	agmu156@ifs.nic.in
State	JHARKHAND
RO/SRO Office Address	Integrated Regional Offices, Ranchi

Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, JHARKHAND with Notification to Project Proponent.

Compliance Report of Environmental Clearance of Integrated Municipal Solid Waste Management Facility at Village Begunadih, Tehsil Potka, District East Singhbhum, Jharkhand vide MoEF&CC Proposal no: IA/JH/INFRA2/410593/2022 dated 26 Dec 2022.

S N	Condition	Compliance Status
A.	Specific Condition	
i.	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as Required under the Air (Prevention and Control of pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974.	Consent to Establish received from Jharkhand State Pollution Control Board (JSPCB) vide No.: JSPCB/HO/RNC/CTE-15672282/2023/397 dated 30.06. 2023 and construction is going on.
ii.	Air pollution control Viz., gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bag-filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gases; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO ₂ , NO _x and CO from the incinerator stack. The Periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out.	It is a landfill site for inert materials generated from municipal solid waste management and no incinerator is envisaged in this project.
iii.	No tree Can be felled/transplanted unless exigencies demand. Where necessary, tree felling shall be with prior permission from the concern Authority. Old trees should be retained based on girth and age regulations as may be prescribed by the forest Department. Where the tree needs to be cut/transplanted with prior permission from the concerned local Authority, compensatory plantation in the ration of 1:10 (i.e., planting of 10 trees for every one tree that is cut/non survival of any transplanted tree) shall be done and maintained. While raising compensatory plantation it may be ensured that all the native species felled are replaced by the same native species to the extent possible while the non-native species may be replaced by any native species of choice.	No tree felling is envisaged as of now. In case of any requirement, tree felling, or transplantation will be done after prior permission from the concerned authority.
iv.	Project Proponent shall develop greenbelt in 5 ha of area as committed.	Plantation is being done to develop the green belt area as per the requirement.
v.	Project Proponent shall implement rain rainwater harvesting from rooftop paved area and landscaping areas as committed.	Rainwater harvesting will be developed during final stage of construction period.
vi.	Project Proponent shall use LED Lamps and Solar panel as energy saving conservation in the project area.	Energy saving measures will be adopted during construction & operation stages.
vii.	The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive should not be used for landscaping.	Plantation has been started and greenbelt will be developed with native species.
viii.	Analysis of Dioxins and Furans shall be done through CSIR-NIIST Thiruvananthapuram or equivalent NABL Accredited laboratory.	No dioxins or Furans generating process is proposed at the site.
ix.	Leachates to be collected and utilized within project after proper treatment. Proponent should submit the details regarding the Leachate collection and treatment system to be installed to concerned Integrated Regional Office of the Ministry. Toxicity Characteristic Leaching Procedure (TCLP) test to be performed on leachates.	Leachate will be collected and used within the project after proper treatment. Details of Leachate collection and treatment system is attached as Annexure-1 and TCLP test will be performed on leachates when the operation will be started.

Compliance Report of Environmental Clearance of Integrated Municipal Solid Waste Management Facility at Village Begunadih, Tehsil Potka, District East Singhbhum, Jharkhand vide MoEF&CC Proposal no: IA/JH/INFRA2/410593/2022 dated 26 Dec 2022.

S N	Condition	Compliance Status
A.	Specific Condition	
x.	Fresh water requirement shall not exceed 50 KLD during Operational phase. Extraction of ground water shall be subject to the permission of CGWA.	Fresh water requirement will be ensured within 50 KLD during operational phase. GW NOC Received from CGWA: CGWA/NOC/IND/ORIG/2024/19917 Dated:16.02.2024.
xi.	Treated wastewater of 20 KLD shall be recycle within the premises as committed.	Treated wastewater will be recycle within the premises when the operation will be started.
xii.	No Fresh water to be used except for potable use.	We will abide by the condition.
xiii.	Six number of Piezometer wells shall be installed in and around the project site to monitor the GW quality in consultation with SPCB or State Pollution Control Committee/CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the regional Office of MoEF&CC.	Piezometer wells shall be installed. Trend analysis of ground water quality is being carried out and information being submitted as Annexure-2.
xiv.	GW monitoring for Physio-Chemical parameters to be carried out and record maintained by providing piezometric wells along the flow channel (Up and Down)	Ground water quality report is attached as Annexure-3. Piezometer procurement is in progress.
xv.	Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.	Ambient air quality monitoring is being done and reports are attached as Annexure-4.
xvi.	The depth of the landfill site shall be decided based on the ground water table at the site to avoid contamination of the ground water.	The depth of the landfill site has been decided and considered in engineering design based on the ground water table at the site to comply with Solid waste management design norms.
xvii.	Environmental Monitoring Programme shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out.	Environmental monitoring will be done as per EIA Report. Ground water and soil monitoring is done to check the contamination. Soil Monitoring report is attached as Annexure-5
xviii.	The Company shall ensure proper handling of spillages by introducing spill control procedures for various chemicals.	Spillage control measures will be taken during operational stage.
xix.	Online real time continuous monitoring facilities shall be provided as per CPCB or State Board Directions.	Online effluent quality monitoring station will be installed as per CPCB or State Board Direction.
xx.	Scrubber water, Leachate water or wheel wash shall be treated properly and recycled to achieve zero liquid discharge.	We will abide by the condition when the project will be operational.
xxi.	Gas generated in the Landfill should be properly collected, monitored, and flared.	Gas generation is not expected as inert materials are being disposed in landfill.
xxii.	Pre-medical check up to carried out on workers at the time of employment and regular medical record to be maintained.	Premedical checkup is carried out at the time of employment and at the time of gate pass renewal. Regular medical check -up record is maintained.
xxiii.	Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non-sudden	As the said facility is under project, draft Emergency plan is available. Final plan will be prepared and

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S N	Condition	Compliance Status
A.	Specific Condition	
	release of hazardous waste constituents to air, soil or surface water.	submitted when facility comes into operation.
xxiv.	Rainwater runoff from the landfill area shall be collected and treated in the LTP.	We will abide by the condition.
xxv.	Adequate covering arrangement in site should be done to prevent the runoff of rainwater in the project premises.	Rainwater run-offs drain network & storage shall be developed to prevent runoff of rainwater from premises.

S N	Compliance Condition	Compliance Status
B	Standard Condition	
I.	Statutory compliance	
i.	The project proponent shall obtain forest clearance under the provision of Forest (Conservation) Act 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable.
ii.	The project proponent shall obtain clearance from National Board for Wildlife, If applicable.	Not applicable.
iii.	The Project proponent shall prepare a site-specific Conservation plan & Wildlife management plan and approved by the chief wildlife Warden. The recommendations of the approved site-specific conservation Plan /Wildlife management plan shall be implemented in consultation with the state forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-1 species in the study area)	Not applicable.
iv.	The project proponent shall obtain CTE/Operate under the provisions of under the Air Act, 1981 and Water Act, 1974 from the concern SPCB.	CTE obtained vide no. JSPCB/HO/RNC/CTE-15672282/2023/397, dated 30-06-2023. CTO will be obtained after completion of establishment.
v.	The project proponent shall obtain the necessary permission from the CGWA, in case of drawl of ground water / from the competent authority concern in case of drawn of surface water required for the project	GW NOC Received from CGWA vide letter no.: CGWA/NOC/IND/ORIG/2024/19917 dated:16/02/2024.
vi.	A Certificate of Adequacy of available power from agency supplying power to the project along with the load allowed for the project should be obtained.	Power is made available at site by JBVNL against application no: NC999565378 dated: 24-07-2023, after payment of requisite amount as per demand received.
vii.	All other statutory clearances such as the approvals for storage of diesel from chief controller of Explosives, Fire department, civil aviation Department shall be Obtained, as applicable by project proponent from the respective competent authorities.	Factory Map approval taken from Department of Labour, Employment & Training Office of The Dy. Chief Inspector of Factories, Jamshedpur vide letter no: DCIF-J/2022-104/P dated 19.10.2023.
II	Air Quality Monitoring and Preservation	
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect standards prescribed in environment (protection) rules 1986 and connected to SPCB AND CPCB online Servers and calibrate this system from time to time according to equipment supplier specification through labs recognised under environment (PROTECTION) act, 1986 or NABL accredited laboratories. (For projects involving	Not applicable because no stack is envisaged as it is a landfill site for inert materials generated from municipal solid waste management.

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B	Standard Condition	
	incineration) to equipment supplier specification through labs recognised under environment (PROTECTION) act, 1986 or NABL accredited laboratories. (For projects involving incineration)	
ii	As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder adsorption of partial acidity and VOCS (if any); bag filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO ₂ , NO _x and CO from the incinerator stack. the periodical monitoring of dioxins and furans in the stack emission shall be carried out.	Not applicable site is a landfill site for inert materials generated from municipal solid waste management and no machinery/ process stack will be involved which may emit the said emissions.
iii	Analysis of dioxins and furans shall be done through CSIR-NATIONAL institute for interdisciplinary Science and technology (NIIST) Thiruvananthapuram or equivalent NABL Accredited laboratory.	Not applicable as it is a landfill site for inert materials generated from municipal solid waste management and no machinery/ process stack will be involved which may emit the said emissions.
iv	Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator.	Not applicable as it is a landfill site for inert materials generated from municipal solid waste management and no machinery/ process stack will be involved which may emit the said emissions. There is no incinerator.
v	Gas generated in the landfill should be properly collected, monitored and flared.	Not applicable as only inert materials are being disposed in landfill, so gas generation is not expected.
vi	The project proponent shall install system to carry out ambient air quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM ₁₀ and PM _{2.5} in reference to SO ₂ and NO _x emissions) within and outside the plant area at least at four location (One within and three outside the plant area at the angle of 120 degree each), covering upwind and downward wind.	Ambient air quality monitoring for common /criterion parameters relevant to the main pollutants released is being done as per requirement.
III.	Water Quality Monitoring and Preservation	
i.	The project proponent shall install continuous effluent monitoring system with respect to standard prescribed in environment (protection) rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under environment (protection) act, 1986 or NABL accredited laboratories.	Continuous Effluent monitoring system will be installed with Leachate treatment plant.
ii	Sufficient number of piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with state pollution control board /CPCB. TREND analysis of ground water quality shall be carried out each season and information shall be submitted to SPCB and the regional office of MoEF&CC	Piezometer wells shall be installed. Trend analysis of ground water quality is being carried out and submitted as Annexure 2 .
iii	The depth of the land fill site shall be decided based on the ground water table at the site.	The depth of the landfill site has been decided and considered in engineering

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B	Standard Condition	
		design based on the ground water table at the site to comply with Solid waste management design norms.
iv	Rainwater runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant.	We will abide by the condition.
v	Total freshwater use shall not exceed the proposed requirement as provided in the project details. prior permission from competent authority shall be obtained for use of fresh water.	We will abide by the condition. As per proposal requirement GW NOC Received from CGWA: CGWA/NOC/IND/ORIG/2024/19917 Dated: 16.02.2024.
vi	The company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.	Spillage control measures will be taken at every stage after commissioning of the project. Covered spill proof vehicles will be used.
vii	All leachates arising from premises should be collected and treated in the ETP followed by RO. RO rejects shall be evaporated in MEE. Toxicity characteristics leaching procedure (TCLP) test to performed on leachates.	We will abide by the condition after commissioning of the project. LTP is proposed at site. Toxicity characteristics leaching procedure (TCLP) test will be performed on leachates after starting of operation.
viii	Scrubber water, leachate water or wheel wash effluent shall be treated in the effluent treatment plant followed by RO to achieve zero liquid discharge.	We will abide by the condition after commissioning of the project.
ix	Sewage treatment plant shall be provided to the wastewater generated from the project. Treated water shall be reuse within the project.	We are engaging local people as daily wagger for execution of project. Hence no permanent sewage treatment plant required. For temporary and small requirement, we are providing septic tank followed by soak pit.
x	A certificate from the component authority for discharging treated effluent/untreated effluent into the public sewer/disposal/drainage systems along with the final disposal point should be obtained.	Zero Effluent Discharge is Proposed.
IV	Waste management	
i	No non-Hazardous waste, as defined under hazardous and other waste (Management and Transboundary Movement) Rules 2016, shall be handled in the premises	We will abide by the condition.
ii	The Solid wastes shall be segregated, managed and disposed as per the norms of SWM Rules,2016.	We will abide by the condition.
iii	Any wastes from C&D activates related thereto shall be managed so as to strictly conform to the C&D waste management rules, 2016	We will abide by the same
iv	A Certificate from the competent authority handling MSW should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project.	TS-UISL is handling the MSW of command area and is so authorized to do so and we certify that the project is adequate to cater the existing civic capacities of handling the MSW generated from command area.
V	Transportation	
i	Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the authorization under the hazardous and other waste (management and transboundary movement) rules,2016 to prevent unwanted access	The site is properly cordoned off from general movement and no unauthorized goods or person is permitted to enter the premises. Security personnel deployed at entry/exit gate.

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B	Standard Condition	
ii	Traffic congestion near the entry and exit point from the roads adjoining the project site shall be avoided. parking should be fully internalized, and no public space should be utilized.	We will abide by the condition
iii	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02kms radius of the project is maintained and improved upon after the implementation of the project .This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02kms radius of the site in different scenarios of the space and time and the traffic management plan shall be duly validate and certified by the state urban development department and the P.W.D/ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments .	We will abide by the condition. Route map proposed and will be implemented the same once operation will be started and we ensure to improve the traffic condition after implementation of the project.
VI	Green Belt	
i	Green belt shall be developed an area as provided in project details, with native tree species in accordance with forest department. the greenbelt shall inter alia cover the periphery of the project site.	Plantation has been started and greenbelt will be developed as per commitment.
ii	Topsoil shall be separately stored and used in the development of green belt.	Topsoil is stored separately and is used in green belt development.
VII	Public Hearing and Human health/safety issues	
i	Emergency Preparation plan based on the Hazard Identification & Risk Assessment HIRA and Disaster management plan shall ne implement.	Emergency Preparation Plan & Standard Working Procedure proposed and shall be implemented.
ii	Provision shall be made for the housing of construction labour within the site 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 temporary structures to be removed after the completion of the project.	We are engaging the construction labour from local area of nearby villages who do not stay at site after working hours.
iii	Occupational health surveillance of the workers shall be done on regular basis.	We will abide by the condition.
IX	Miscellaneous	
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent website permanently. (For projects involving incineration)	The Notice has been advertised in two local newspapers viz. Dainik Jagran (Hindi) and The Avenue Mail (English) on February 17, 2023, and communication to this effect was also sent to the MoEF&CC. Details attached as Annexure-6 .
ii	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which on shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MOEFCC/SELAA website where it is displayed (for projects in involving only landfill without incineration)	The Notice has been advertised in two local newspapers viz. Dainik Jagran (Hindi) and The Avenue Mail (English) on February 17, 2023, and communication to this effect was also sent to the MoEF&CC. Details attached as Annexure-6 .

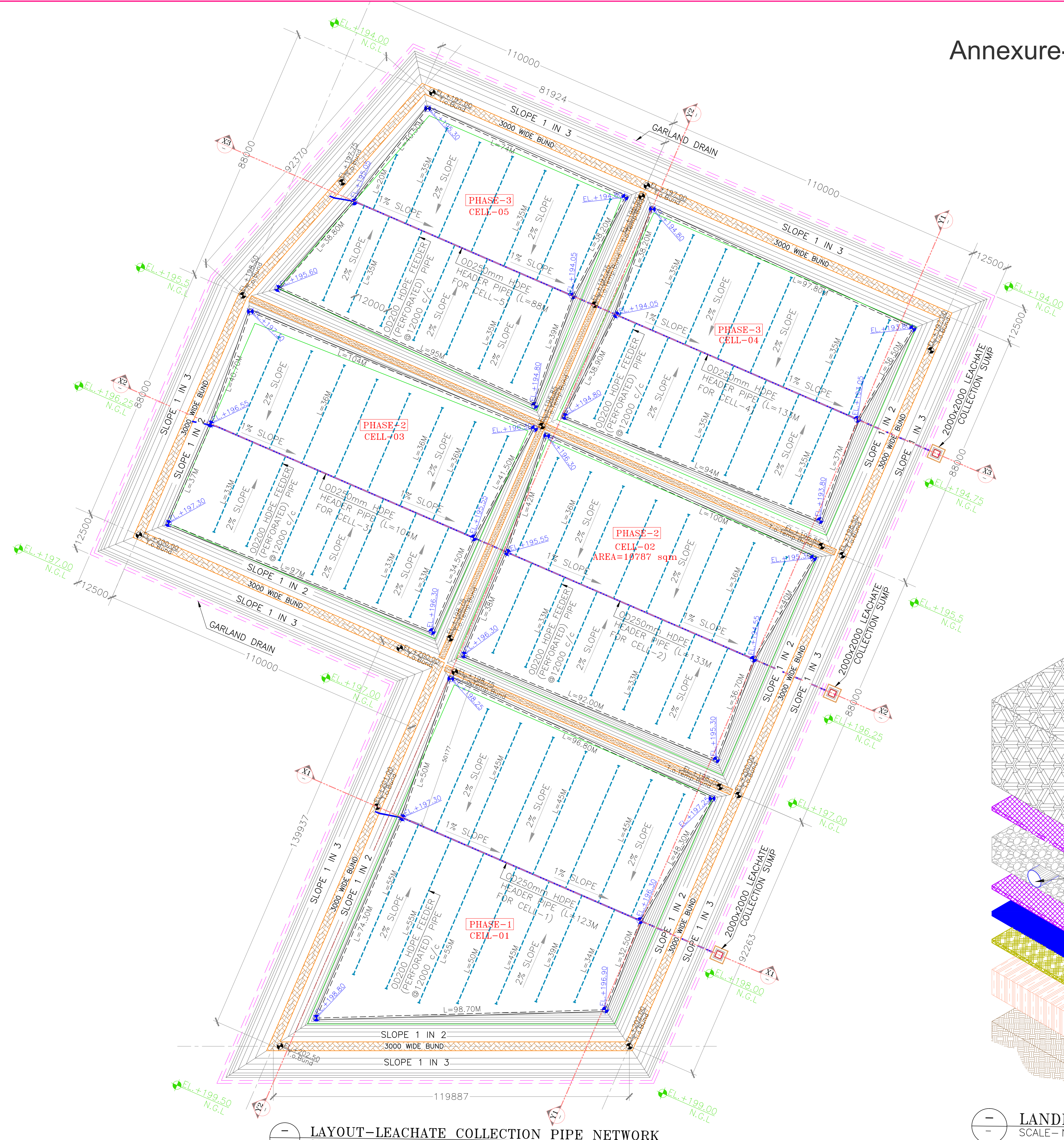
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iii	The copies of the environmental clearance shall be submitted by the project proponents to the Head of local bodies, Panchayats and Municipal Bodies in addition to the relevant of the Government who in turn has to display the same for 30 days from the date of receipt.	Environmental Clearance report Submitted to local bodies and acknowledgment attached as Annexure-7.
iv	The project proponent shall upload the status of compliance of the stipulated environment clearance condition, including results of monitored data on their website and update the same on half-yearly basis.	Half yearly EC Compliance report submitted for FY25 H1 via letter no: PH/587/2024, Date: 28 November 2024. The same is being displayed on our website. https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/ .
V	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements /deviation / violation of the environmental / forest / wildlife norms / conditions and/or shareholder, s /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Tata steel has approved Environmental Policy. Attached as Annexure-8
vi	A separate environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up Under the control of senior Executive, who will directly report to the head of the organization.	TATA STEEL has dedicated environmental cell with qualified personnel.
vii	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the six-monthly compliance Report.	EMP studies conducted. Separate budgets for Rs. 5 Lakhs per Year has been provided for environmental Monitoring. EIA/EMP report showing environmental commitment budget and compliance is attached as Annexure -9.
viii	Self- environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Currently site is not in operation. Self-Assessment audit shall be conducted after commissioning of the project.
ix	The project proponent shall submit six - monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest, and climate change at environment clearance portal.	Half yearly EC Compliance report submitted for FY25H1 via letter no: PH/587/2024, Date: 28 November 2024 and uploaded the same on the portal.
x	The project proponent shall submit the environmental statement for each financial year in Form -V to the concerned State Pollution Control Board as prescribed under the environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Facility is still under project stage. After completion of project and grant of CTO, yearly environmental statement will be submitted.
xi	The criteria pollutant levels namely, PM2.5, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project	This is not applicable, as there is no stack proposed.

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	shall be monitored and displayed at a convenient location near the main gate of the company in the public domain (in case incineration involved).	
xii	The project proponent 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, commencing the land development work and start of production operation by the project.	We will abide by the condition
xiii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	We'll comply to the stipulations made by the State Pollution Control Board and the State Government.
xiv	The project proponent shall abide by all the commitment and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the Expert Appraisal committee.	We'll comply the commitment and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the Expert Appraisal committee.
xv	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate change (MoEF&CC).	We will abide by the condition.
xvi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.	Agreed and noted
xvii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and noted
xviii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed and noted
xix	The Regional office of this Ministry shall monitor compliance of the stipulated condition. The project authorities should extend full corporation to officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agreed and noted
xx	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 and other Wastes (Management and Transboundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India /High Courts and any other Court of Law relating to the subject matter.	Agreed and noted
xxi	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Not Required

Annexure-1



CONCEPTUAL DRAWING
FOR APPROVAL

KEY PLAN:

NOTES:

1. FGL TENTATIVELY ASSUMED AS +100.00.
2. ALL DIMENSIONS IN MILLIMETERS, LEVELS & COORDINATES IN METERS UNLESS OTHERWISE STATED.
3. DO NOT SCALE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
4. THIS DRAWING SHOWS GENERAL ARRANGEMENT ONLY; REFER STRUCTURAL DRAWING FOR ALL RCC WORKS.
5. STRUCTURE ORIENTATION SHOULD CONFIRM TO THE LAYOUT PLAN.
6. ANY DISCREPANCIES NOTED SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT PRIOR TO EXECUTION.
7. ROAD WIDTH SHOWN ARE INCLUSIVE OF BERMS & STORM WATER DRAINS SHALL BE EXECUTED AS PER SITE GRADING.
8. THE ARRANGEMENTS, DIMENSIONS, LEVELS & ANGLES OF THE VARIOUS ITEMS/BUILDINGS/PIPELINES SHOWN IN THIS DRAWING ARE INDICATIVE ONLY. THESE SHALL BE SUBSTANTIATED AT THE TIME OF EXECUTION AS PER SITE CONDITIONS.
9. THESE DRAWINGS ARE ONLY FOR APPROVAL, DEVELOPED FOR PRELIMINARY STAGE DESIGN.

SYMBOLS / ABBREVIATIONS :

1.	CL	: CENTER LINE
2.	EL	: ELEVATION
3.	FGL	: FORMED GROUND LEVEL
4.	NGL	: NATURAL GROUND LEVEL
5.	TYP	: TYPICAL
6.	RTL	: ROAD TOP LEVEL (CRUST)
7.	BoP	: BOTTOM OF PIPE
8.	ToB	: TOP OF BUND
9.	THK.	: THICK
10.	m	: METER
11.	mm	: MILLIMETER
12.	sqm	: SQUARE METER
13.	rmt	: RUNNING METER
14.	MoC	: MATERIAL CONSTRUCTION

LANDFILL BASELINER (TYP.)
SCALE - NTS

CLIENT:	TATA STEEL UTILITIES AND INFRASTRUCTURE SERVICES LIMITED JAMSHEDPUR, JHARKHAND	CONSULTANT:	PS ENGINEERING CONSULTANTS HYDERABAD, TELANGANA psec.ts@gmail.com	PROJECT:	SANITARY LANDFILL HATA, BEGUNADIH (V), JAMSHEDPUR, JHARKHAND	TITLE:	SANITARY LANDFILL LEACHATE COLLECTION PIPE NETWORK	REV.	0	SHEET	A1	GENERAL NOTE:
1. ALL DIMENSIONS ARE IN MM & LEVELS & COORDINATES ARE IN METER.												
2. DO NOT SCALE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.												
3. ANY DISCREPANCIES NOTED SHALL BE BROUGHT TO THE NOTICE OF THE CONSULTANT PRIOR TO EXECUTION.												
SCALE:	NTS	DRG. NO.:	PSEC/TATA/1005/SLF/DWG/110.1	DATE:	27.09.2022							
REV.		DATE		DESCRIPTION		CHD BY						

Annexure-2

Ground water trend analysis

Location: Ground water Core Zone						
Sl. No	Parameter	Result dated 25/05/2023	Result dated 10- 05-2024	Result dated 24-09-2024	Result dated 26-04-2025	Permissible limits as per Is:10500 (2012) drinking water
1	Colour, Hazen units, Max.	2	<5	5	<5	15
2	Odour	Unobjectionable	Unobjectionable	Agreeable	Agreeable	Agreeable
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU, Max.	2.1	94	83	25.21	5
5	Conductivity, μ mhos/cm	-	328	321	313	-
6	pH Value	6.8	6.6	6.823	7.302	6.5 to 8.5 (No relaxation)
7	Total Hardness (as CaCO ₃), mg/l	121	114	123.8	121.5	600
8	Iron (as Fe), mg/l	0.26	0.12	0.9	0.88	0.3 (No relaxation)
9	Chloride (as Cl), mg/l	46	10	14.1	15.2	1000
10	Residual Free Chlorine, mg/l	Nil	Nil	Nil(BDL)	Nil(BDL)	1
11	Fluoride (as F) mg/L	0.21	0.6	0.72	0.62	1.5
12	Dissolved Solids mg/l	221	196	178.2	170.2	2000
13	Calcium (as Ca), mg/l	43	33	35.2	34.1	200
14	Magnesium (as Mg), mg/l	5.3	8	9.2	10.1	100
15	Copper (Cu), mg/l	0.001	<0.01	-	-	1.5
16	Manganese (as Mn), mg/l	0.002	0.06	-	-	0.3
17	Sulphate (as SO ₄), mg/l	41.2	7	9.7	9.1	400
18	Nitrate (as NO ₃), mg/l	3.1	1.6	1.7	1.64	45 (No relaxation)
19	Arsenic (as As), mg/l.	-	<0.01	-	-	0.05
20	Lead (as Pb), mg/l	-	<0.005	-	-	0.01 (No relaxation)
21	Nickel (as Ni), mg/l	-	<0.01	-	-	0.02 (No relaxation)
22	Zinc (as Zn), mg/l	-	0.4	-	-	15
23	Alkalinity (as CaCO ₃) mg/l	-	146	151.6	143.8	600
24	Phenolic Compound as C ₆ H ₅ SOH mg/l	Nil	-	-	-	0.02
25	Mercury as Hg mg/l	<0.001	-	-	-	0.001 (No relaxation)
26	Cadmium as Cd mg/l	<0.001	-	-	-	0.01 (No)



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TEST REPORT

(WATER)

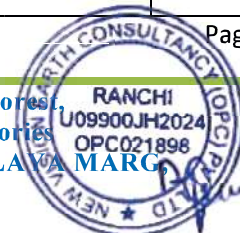
Client Reference No:	NVEC/ENV/LAB/01042025	ULR NO :	TC1407525000000172F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/2025/174
		Report Release Date :	26/04/2025
		Sampling Date :	03/04/2025
		Sample Receipt Date :	05/04/2025
		Sample ID:	NVEC/GW/25/04/05/018
Plant Status :	NON-OPERATIONAL	Period of Analysis	06/04/2025 to 25/04/2025
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	5 Liter
Latitude :	22°31'07.348"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'42.363"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	34.1	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	15.2	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	<5.0	Cu	5	15
4	Electrical Conductivity	IS 3025 (Part 14)	313	μS/cm	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.62	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.88	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	10.1	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	1.64	mg/l	45	45
10	Odor	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	7.302	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	9.1	mg/l	200	400
13	Taste	APHA 24th Edition 2160 C	Agreeable	-	Agreeable	Agreeable
14	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	143.8	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	170.2	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	121.5	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	25.21	NTU	1.0	5.0

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ASHOK NAGAR, RANCHI- 834002, JHARKHAND.
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Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Quality Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

*****End of the Report*****



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TEST REPORT

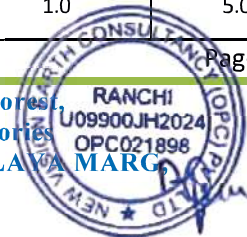
(WATER)

Client Reference No:	NVEC/ENV/LAB/01042025	ULR NO :	TC1407525000000173F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/2025/175
		Report Release Date :	26/04/2025
		Sampling Date :	03/04/2025
		Sample Receipt Date :	05/04/2025
		Sample ID:	NVEC/GW/25/04/05/019
Plant Status :	NON-OPERATIONAL	Period of Analysis	06/04/2025 to 25/04/2025
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, UPAARDIHA VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	5 Liter
Latitude :	22°31'43.792"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.147"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	132.8	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	186.1	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	<5.0	Cu	5	15
4	Conductivity	IS 3025 (Part 14)	1359	µS/cm	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.43	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.37	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	72.7	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	2.7	mg/l	45	45
10	Odor	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	6.885	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	38.1	mg/l	200	400
13	Taste	APHA 24th Edition 2160 C	Agreeable	-	Agreeable	Agreeable
14	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	330.5	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	909.5	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	545.2	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	33.54	NTU	1.0	5.0

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Reviewed by:

Krishna Kumar

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh

Designation: CEO

*****End of the Report*****



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TEST REPORT

(WATER)

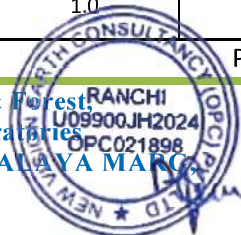
Client Reference No:	NVEC/ENV/LAB/01042025	ULR NO :	TC1407525000000174F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/2025/176
		Report Release Date :	26/04/2025
		Sampling Date :	03/04/2025
		Sample Receipt Date :	05/04/2025
		Sample ID:	NVEC/GW/25/04/05/020
Plant Status :	NON-OPERATIONAL	Period of Analysis	06/04/2025 to 25/04/2025
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, KUALI, VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	5 Liter
Latitude :	22°30'53.210"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°10'47.225"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	121.5	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	125.7	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	<5.0	Cu	5	15
4	Conductivity	IS 3025 (Part 14)	453	μS/cm	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.41	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.08	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	38.7	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	8.3	mg/l	45	45
10	Odor	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	7.128	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	44.4	mg/l	200	400
13	Taste	APHA 24th Edition 2160 C	Agreeable	-	Agreeable	Agreeable
14	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	240.8	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	555.6	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	424.7	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	0.16	NTU	1.0	5.0

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Reviewed by:

Name: Krishna Kumar
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

*****End of the Report*****



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TEST REPORT

(WATER)

Client Reference No:	NVEC/ENV/LAB/01042025	ULR NO :	TC1407525000000175F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/2025/177
		Report Release Date :	26/04/2025
		Sampling Date :	03/04/2025
		Sample Receipt Date :	05/04/2025
		Sample ID:	NVEC/GW/25/04/05/021
Plant Status :	NON-OPERATIONAL	Period of Analysis	06/04/2025 to 25/04/2025
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, NISHCHINTPUR, VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	5 Liter
Latitude :	22°31'1.823"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'27.262"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	35.7	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	121.8	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	<5.0	Cu	5	15
4	Conductivity	IS 3025 (Part 14)	455	μS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.40	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.75	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	12.2	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	1.3	mg/l	45	45
10	Odor	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	6.988	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	26.2	mg/l	200	400
13	Taste	APHA 24th Edition 2160 C	Agreeable	-	Agreeable	Agreeable
14	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	154.2	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	353.6	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	126.2	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	0.22	NTU	1.0	5.0

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

*****End of the Report*****



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TEST REPORT (AMBIENT AIR)

Client Reference No:	NVEC/ENV/LAB/01042025	ULR NO:	TC1407525000000170F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/2025/172
		Report Release Date :	26/04/2025
		Sampling Date	03/04/2025 to 05/04/2025
Weather Condition	Clear	Sample Receipt Date :	05/04/2025
Average Temperature (°C)	39 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	758 (mmHg)	Sample Condition	Sealed and Preserved
Plan Status	Non-Operational	Period of Analysis	06/04/2025 to 25/ 04/2025

	Unit 1	Unit 2	Unit 3
Sampling Location	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)
Latitude & Longitude	22°31'07.79"N 86° 11'36.48"E	22°31'43.84"N 86° 11'54.14"E	22°30'53.29"N 86° 10'46.35"E
Sample ID	NVEC/AQ/25/04/05/010	NVEC/AQ/25/04/05/011	NVEC/AQ/25/04/05/012
Instrument Used	RDS APM 460, FPS APM 550 MINI	RDS APM 460, FPS APM 550 MINI	RDS APM 460, FPS APM 550 MINI
Instrument code	VEC/Field/032 (RDS), VEC/Field/035 (FPS)	VEC/Field/033 (RDS), VEC/Field/036 (FPS)	VEC/Field/034 (RDS), VEC/Field/037 (FPS)
Instrument calibration status	01/04/2025 to 31/03/2026	01/04/2025 to 31/03/2026	01/04/2025 to 31/03/2026
	Unit 4		
Sampling Location	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Latitude & Longitude	22°31'01.81"N 86° 11'27.03"E		
Sample ID	NVEC/AQ/25/04/05/013		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/032 (RDS), VEC/Field/035 (FPS)		
Instrument calibration status	01/04/2025 to 31/03/2026		



Page: 01/02



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Accredited By: -

National Accreditation Board of Laboratories & Calibration TC- 14075

Jharkhand State Pollution Control Board (JSPCB) B-2062

Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015



TC-14075

General Information

Client Representative (Name & Designation) : Bapun Panda & Site Supervisor
Sample collected by (Name & Designation) : NVEC Team
Time of Monitoring (Average) : 10:00 AM
Actual duration of Monitoring, (minutes) : 1445 (Minutes)
Surrounding activity : Vacant Land
Scope of Monitoring : PM10, PM2.5, SO₂, NO₂
Control measure if Any : No
Sampling Protocol/Procedure : IS 5182 or VEC/SP/AIR/14

TEST RESULTS

Discipline : Chemical			Group : Atmospheric Pollution					
	Parameter	Protocol	Sampling Location				Unit	NAAQS
			Unit 1	Unit 2	Unit 3	Unit 4		
1	Particulate Matter (PM10)	IS 5182 : Part 23 : 2006 (RA:2022)	63.2	66.0	65.1	6.2	µg/m ³	100 µg/m ³
2	Particulate Matter (PM2.5)	IS 5182 : Part 24 : 2019	24.3	25.2	25.6	26.9	µg/m ³	60 µg/m ³
3	Sulphur Dioxide (SO ₂)	IS 5182:Part 2:2018 (RA:2023)	7.2	6.9	8.0	7.6	µg/m ³	80 µg/m ³
4	Oxides of Nitrogen (NOx)	IS 5182:Part 6:2006 (RA:2022)	19.2	18.2	16.6	18.7	µg/m ³	80 µg/m ³

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2. The sample will be destroyed after 15 days from the date of issue of test certificate unless otherwise specified.
3. Any discrepancy in test result should be reported within 15 days.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh

Designation: CEO

*****End of the Report*****

Page: 02/02

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ASHOK NAGAR, RANCHI- 834002, JHARKHAND.
Contact: - +91-9955095641, +91-9546333332,
Email – visionearthjkh@gmail.com



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Accredited By: -

Jharkhand State Pollution Control Board (JSPCB) B-2062

Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015

TEST REPORT (AMBIENT AIR)

Client Reference No:	NVEC/ENV/LAB/01042025		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/AAQ/2025/001
		Report Release Date :	26/04/2025
		Sampling Date	03/04/2025 to 05/04/2025
Weather Condition	Clear	Sample Receipt Date :	05/04/2025
Average Temperature (°C)	39 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	758 (mmHg)	Sample Condition	Sealed and Preserved
Plan Status	Non-Operational	Period of Analysis	06/04/2025 to 25/ 04/2025

	Unit 1	Unit 2	Unit 3
Sampling Location	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)
Latitude & Longitude	22°31'07.79"N 86° 11'36.48"E	22°31'43.84"N 86° 11'54.14"E	22°30'53.29"N 86° 10'46.35"E
Sample ID	NVEC/AQ/25/04/05/010	NVEC/AQ/25/04/05/011	NVEC/AQ/25/04/05/012
Instrument Used	RDS APM 460, FPS APM 550 MINI	RDS APM 460, FPS APM 550 MINI	RDS APM 460, FPS APM 550 MINI
Instrument code	VEC/Field/032 (RDS), VEC/Field/035 (FPS)	VEC/Field/033 (RDS), VEC/Field/036 (FPS)	VEC/Field/034 (RDS), VEC/Field/037 (FPS)
Instrument calibration status	01/04/2025 to 31/03/2026	01/04/2025 to 31/03/2026	01/04/2025 to 31/03/2026
	Unit 4		
Sampling Location	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Latitude & Longitude	22°31'01.81"N 86° 11'27.03"E		
Sample ID	NVEC/AQ/25/04/05/013		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/032 (RDS), VEC/Field/035 (FPS)		
Instrument calibration status	01/04/2025 to 31/03/2026		



Page: 01/02

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Accredited By: -

Jharkhand State Pollution Control Board (JSPCB) B-2062

Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015

General Information

Client Representative (Name & Designation) : Bapun Panda & Site Supervisor
Sample collected by (Name & Designation) : NVEC Team
Time of Monitoring (Average) : 10:00 AM
Actual duration of Monitoring, (minutes) : 1445 (Minutes)
Surrounding activity : Vacant Land
Scope of Monitoring : H₂S, CH₄
Control measure if Any : No
Sampling Protocol/Procedure : IS 5182

TEST RESULTS

Discipline : Chemical			Group : Atmospheric Pollution					
	Parameter	Test Method/Procedure	Sampling Location				Unit	NAAQS
			Unit 1	Unit 2	Unit 3	Unit 4		
1	Hydrogen Sulphide (H ₂ S)	IS:5182 (Part-7) 2021	<04	<04	<04	<04	µg/m ³	-----
2	Methane (CH ₄)	IS:5182 (P-17) 1979 (RA2003)	<0.1	<0.1	<0.1	<0.1	ppm	-----

Note – * These above Parameter are out of sources.

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3. Any discrepancy in test result should be reported within 15 days.

Reviewed by:

Name: Krishna Kumar
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

*****End of the Report*****



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Jharkhand State Pollution Control Board (JSPCB) B-2062

Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015



TC-14075

TEST REPORT (SOIL)

Client Reference No.:	NVEC/ENV/LAB/01042025	ULR NO:	TC1407525000000179F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/2025/181
		Report Release Date:	26/04/2025
		Sampling Date :	03/04/2025
Sample Description:	SANDY LOAM, YELLOWISH	Sample Receipt Date:	05/04/2025
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM)	Sample ID:	NVEC/SQ/25/04/05/025
		Period of Analysis:	06/04/2025 to 25/04/2025
Client Representative (Name & Designation):	BAPUN PANDA & SITE SUPERVISOR	Sampling Protocol/Procedure :	VEC/SOIL/SP/16
Sample Collected by (Name & Designation):	NVEC TEAM	Type of Sampling:	Composite
		Sample Quantity:	2KG
Latitude :	22°31'8.052"N	Depth of Sampling:	30 cm
Longitude :	86°11'36.299"E	Packing Status:	Sealed

TEST RESULT

Discipline : Chemical		Group : Pollution & Environment		
S. No.	Parameter	Protocol	Result	Unit
1	pH	IS 2720 (Part 26)	6.506	----
2	Electrical Conductivity	IS 14767	95.0	µs/cm
3	Organic Matter	IS 2720 (Part 22)	0.48	%
4	Bulk Density	IS 2720 (Part 28)	1.52	g/cm ³
5	Water Holding Capacity	IS 14765	38.3	%
6	Available Potassium	IS 9497	68.4	Mg/kg
7	Available Nitrogen	IS 14684	168.4	Mg/kg

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Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Quality Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

*****End of the Report*****

Page: 01/01

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Email – visionearthjkh@gmail.com

दैनिक जागरण

झारखंड, बिहार, पं. बंगाल, दिल्ली, उत्तरप्रदेश, मध्यप्रदेश, हरियाणा, उत्तराखंड, पंजाब, जम्मू कश्मीर और हिमाचल प्रदेश से प्रकाशित

गया। घटना की सूचना मिलते ही कालीमांझर पहुंचा।

सूचना

यह सूचित किया जाता है कि टाटा स्टील लिमिटेड, जमशेदपुर को पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, भारत सरकार नई दिल्ली से 'एकीकृत नगरपालिका वॉसि अपशिष्ट प्रबंधन सुविधा' के लिए इसी पहचान संख्या EC23A037JH170166 दिनांक 13-02-2023 के माध्यम से पर्यावरण मंजूरी प्रदान की गई है।
पर्यावरण मंजूरी पत्र की प्रति मंत्रालय की वेबसाइट : http://164.100.213.216/Esign/Esign/ECL_AUTH_47F101_JA_JH_INFRA2_410593_2022.pdf पर उपलब्ध है। टाटा स्टील लिमिटेड जमशेदपुर
झारखण्ड- 831001

JHARKHAND'S OWN ENGLISH DAILY

THE AVENUE MAIL

JAMSHEDPUR FRIDAY, FEBRUARY 17, 2023 VOL: 30 NO: 235 RS.3/- PAGES - 12 www.avenuemail.in

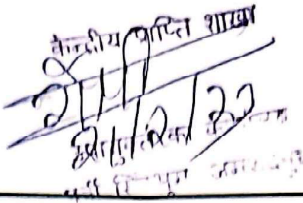

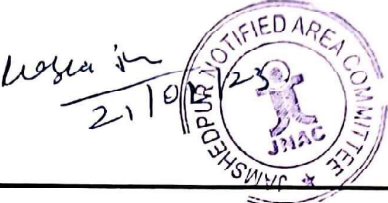
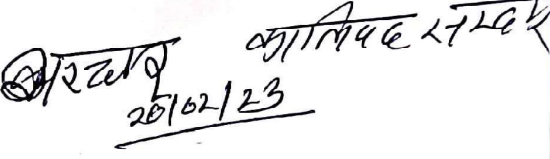
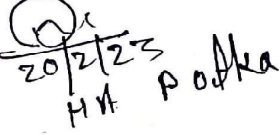

NOTICE

This is to inform that Tata Steel Limited, Jamshedpur has been accorded Environmental Clearance vide EC Identification No. EC23A037JH170166 dated 13.02.2023 from Ministry of Environment, Forest & Climate Change, Government of India New Delhi for "Integrated Municipal Solid Waste Management Facility".

The copy of environmental clearance letter is available on website of Ministry's website:

https://164.100.213.216/Esign/Esign/ECL_AUTH_47F101_JA_JH_INFRA2_41593_2022.pdf

Tata Steel Limited, Jamshedpur
Jharkhand - 831001

Name of Recipient	Acknowledgement
EMD/C-10/034/23 February 17, 2023 Deputy Commissioner Office of Deputy Commissioner East Singhbhum	
EMD/C-10/035/23 February 17, 2023 General Manager District Industries Centre East Singhbhum	
EMD/C-10/036/23 February 17, 2023 Special Officer Jamshedpur Notified Area Committee East Singhbhum	
EMD/C-10/037/23 February 17, 2023 Sarpanch Janamdih Gram Panchayat Potka, East Singhbhum	
EMD/C-10/038/23 February 17, 2023 Block Development Officer Zonal Office, Potka, East Singhbhum	
EMD/C-10/039/23 February 17, 2023 Regional Officer, Jharkhand State Pollution Control Board M.B./15, New Housing Colony, Adityapur	

ENVIRONMENTAL POLICY

Tata Steel's environmental responsibilities are driven by our commitment to preserve the environment and are integral to the way we do business.

1. We are committed to deal proactively with Climate Change issue by efficient use of natural resources & energy; reducing and preventing pollution; promoting waste avoidance and recycling measures; and product stewardship.
 - We shall identify, assess and manage our environment impact.
 - We shall regularly monitor, review and report publicly our environmental performance.
 - We shall develop & rehabilitate abandoned sites through afforestation and landscaping and shall protect and preserve the biodiversity in the areas of our operations.
 - We shall enhance awareness, skill and competence of our employees and contractors so as to enable them to demonstrate their involvement, responsibility and accountability for sound environmental performance.
2. We are committed to continual improvement in our environmental performance.
 - We shall set objective-targets, develop, implement and maintain management standards and systems, and go beyond compliance of the relevant industry standards, legal and other requirements.
3. We will truly succeed when we sustain our environmental achievement and are valued by the communities in which we work.

Date : November 1, 2017



T V Narendran
CEO & Managing Director



CHAPTER – VI : ENVIRONMENT MONITORING PROGRAMME

6.1 INTRODUCTION

Environmental monitoring is collection of data using a series of repetitive measurements of environmental parameters. Environmental Monitoring post EC are undertaken for effects monitoring and compliance monitoring.

6.1.1 Effect Monitoring

Effect monitoring is the measurement of environmental parameters during construction operation and post closure phase to detect changes in quality of environment which are attributable to the project to provide necessary information to:

- Verify accuracy of EIA predictions
- Determine the effectiveness of mitigation measures

6.1.2 Compliance Monitoring

Compliance monitoring is periodic measurement of environmental parameters to ensure that regulatory requirements and standards are met. Compliance and effect monitoring are undertaken during construction, operation & closure phase.

6.2 ATTRIBUTE & PARAMETERS TO BE MONITORED

Following attributes & parameters are proposed to be included in environment monitoring programme.

1. Ambient Air Quality: No. of AAQ Monitoring Stations 3.
During Construction Phase:
 - PM_{2.5}
 - PM₁₀
 - SO₂
 - NO_xDuring Operations Phase:
 - PM_{2.5}
 - PM₁₀
 - SO₂
 - NO_x
 - CH₄
 - H₂S
2. Ground Water Quality: No. of Groundwater monitoring stations - Around. SFL – 5
No. of Groundwater monitoring stations in Buffer zone -3
As per parameters given in BIS10500.
3. Surface Water Quality: No. of Surface water monitoring 3.
As per parameters prescribed by CPCB.
4. Noise Level

As per standards prescribed by MoEF & CC/ CPCB.

5. Soil Quality

Parameters to be monitored.

Sl. No.	Parameters
1.	Ph
2.	EC
3.	Bulk Density
4.	Available Nitrogen
5.	Available P as PO ₄
6.	Available K
7.	Water Soluble Sulphates as SO ₄
8.	Organic Matter
9.	Organic Carbon
10.	Total Iron
11.	Manganese
12.	Zinc
13.	Boron

6.3 ENVIRONMENTAL MONITORING STATIONS

A. Ambient Air Quality: No. of AAQ monitoring stations is 3.

One monitoring station on upwind direction near human habitation. One station on downwind direction near habitation. One at the Project site.

B. Ground Water Quality: No. of GW Quality monitoring stations is 8.

One station at on the upstream site of the Project and two stations at the downstream site beyond the Project boundary. Five stations near SLF,

C. Surface Water Quality: No. of monitoring stations is 3.

One station in Juriya Nala upstream of Confluence

One station in Dosimani Nadi, upstream of Confluence.

One station in Gudra Nadi, in downstream, after confluence.

D. Noise Level

One station in plant area (near office).

One station at Kuali Village.

One station at Begunadih Village.

6.4 FREQUENCY

1. Ambient Air Quality

Once (24 Hrs. sample) in a fortnight at every AAQ monitoring station for all seasons except monsoon.

2. Ground Water Quality & Surface Water Quality

Once at every monitoring station in all seasons.

3. Noise Level

Once in every season day & night at all identified noise monitoring station.

6.5 AGENCY

The proponent has its own NABL accredited environmental lab. Environmental monitoring would be done through this lab.

6.6 BUDGET

Separate budgets for Rs. 5 Lakhs per Year has been provided for environmental monitoring.

In Chapter - III Shows the location of Environment Quality Monitoring Station in the study area of proposed IMSWMF for lease area of TSL at Jamshedpur (Jharkhand).

Sanjay Kumar

From: Tadela Ravi
Sent: 28 May 2025 16:12
To: Sanjay Kumar
Cc: Chandan Gupta
Subject: Environment expenditure

Dear sir,

Please find below expenditure for environmental compliance.

Sl.No.	Activites done	Amount	Remark
1	Monitoring Borewell drilling	3,29,340.68	Drilling borewell with casing
2	Environmental Monitoring test	2,54,880.00	Test conduct Charges as proposed in EMP
3	GNOG	18,250.00	Application Fee
4	Concern to Establishment		
5	Piezometer Installation		

Thanks & Regards,

Tadela Ravi

Deputy Manager (Solid Waste Management)
Public Health Services

TATA STEEL UTILITIES & INFRASTRUCTURE SERVICES LIMITED

Sakchi Boulevard Road, Northern Town, Bistupur | Jamshedpur 831 001

Mobile +91-8114593858

ravi.tadela@tatasteel.com | <http://www.tatasteeluisl.com>

**Half Yearly Compliance Report
2025
01 Jun(01 Oct - 31 Mar)**

Acknowledgement

Proposal Name		INTEGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY									
Name of Entity / Corporate Office		Tata Steel Limited									
Village(s)		BEGUNADIH									
District		EAST SINGHBUM									
Proposal No.	IA/JH/INFRA2/410593/2022	<table><tr><td>Category</td><td>INFRA-2</td></tr><tr><td>Sub-District</td><td>Potka</td></tr><tr><td>Entity's PAN</td><td>*****2803M</td></tr><tr><td>Entity name as per PAN</td><td>UTSAV KASHYAP</td></tr></table>		Category	INFRA-2	Sub-District	Potka	Entity's PAN	*****2803M	Entity name as per PAN	UTSAV KASHYAP
Category	INFRA-2										
Sub-District	Potka										
Entity's PAN	*****2803M										
Entity name as per PAN	UTSAV KASHYAP										
Plot / Survey / Khasra No.	Plot No. : 46, 76, 11, 40, 43, 48, 49, 86, 225, 94, 85, 82, 83, 79, 84, 10, 45, 63, 65, 69, 71, 74, 87, 227, 91, 78, 21, 67, 72, 77, 90, 5, 23, 8, 22, 62, 66, 68, 73, 89, 13, 24, 42, 80, 103, 18, 25, 26, 32, 47, 92, 97, 98, 9, 44, 64, 70, 88, 12, 17, 19, 96, 99, 81, 75										
State	JHARKHAND										
MoEF File No.	10-56/2019-IA.III										

Compliance Reporting Details

Reporting Year	2025
Remarks (if any)	Submission of Half Yearly (October 2024 to March 2025) Environment Clearances Compliance Reports (ECCR) for Integrated Municipal Solid Waste Management Facility of Tata Steel Limited at Begunadih, Potka, Jamshedpur, District- East Singhbhum, Jharkhand.
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	Tata Steel Limited	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	14.95	14.95
Revenue Land	0	0
Forest	0	0
Others	0	0

Total		14.95		14.95		
Production Capacity						
Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Integrated municiple solid waste management facility with sanitary landfill	Tons per Day (TPD)	N/A	400	NA	NA
Conditions						
Specific Conditions						
Sr.No.	Condition Type	Condition Details				
1	Statutory compliance	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as Required under the Air (Prevention and Control of pollution) Act,1981 and Water (Prevention and Control of Pollution) Act,1974				
PPs Submission: Complied Consent to Establish received from Jharkhand State Pollution Control Board (JSPCB) vide No.: JSPCB/HO/ RNC/CTE-15672282/2023/397 dated 30.06. 2023 and construction is going on						Date: 28/05/2025
2	AIR QUALITY MONITORING AND PRESERVATION	Air pollution control Viz., gas quencher; treatment with mixture of hydrated lime and activated powder for adsorption of partial acidity and VOCs (if any); bag-filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gases; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO2, NOx and CO from the incinerator stack. The Periodical monitoring of Dioxins and Furans in the Stack emissions shall be carried out.				
PPs Submission: Complied It is a landfill site for inert materials generated from municipal solid waste management and no incinerator is envisaged in this project.						Date: 28/05/2025
3	GREENBELT	No tree Can be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concern Authority. Old trees should be retained based on girth and age regulations as may be prescribed by the forest Department. Where the tree needs to be cut/transplanted with prior permission from the concerned local Authority, compensatory plantation in the ration of 1:10 (i.e planting of 10 trees for every one tree that is cut/nonsurvival of any transplanted tree) shall be done and maintained. While raising compensatory plantation it may be ensured that all the native species felled are replaced by the same native species to the extend possible while the non-native species may be replaced by any native species of choice.				

PPs Submission: Complied No tree felling is envisaged as of now. In case of any requirement, tree felling, or transplantation will be done after prior permission from the concerned authority.		Date: 28/05/2025
4	GREENBELT	Project Proponent shall develop greenbelt in 5 ha of area as committed.
PPs Submission: Partially Complied Plantation is being done to develop the green belt area as per the requirement.		Date: 28/05/2025
5	WATER QUALITY MONITORING AND PRESERVATION	Project Proponent shall implement rain rainwater harvesting from rooftop paved area and landscaping areas as committed.
PPs Submission: Being Complied Rainwater harvesting will be developed during final stage of construction period.		Date: 28/05/2025
6	ENERGY PRESERVATION MEASURES	Project Proponent shall use LED Lamps and Solar panel as energy saving conservation in the project area.
PPs Submission: Being Complied Energy saving measures will be adopted during construction and operation stages.		Date: 28/05/2025
7	GREENBELT	The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive should not be used for landscaping.
PPs Submission: Being Complied Plantation has been started and greenbelt will be developed with native species.		Date: 28/05/2025
8	AIR QUALITY MONITORING AND PRESERVATION	Analysis of Dioxins and Furans shall be done through CSIR-NIIST Thiruvananthapuram or equivalent NABL Accredited laboratory.
PPs Submission: Complied No dioxins or Furans generating process is proposed at the site.		Date: 28/05/2025
9	WASTE MANAGEMENT	Leachates to be collected and utilized within project after proper treatment. Proponent should submit the details regarding the Leachate collection and treatment system to be installed to concerned Integrated Regional Office of the Ministry. Toxicity Characteristics Leaching Procedure (TCLP) test to be performed on leachates.
PPs Submission: Being Complied Leachate will be collected and used within the project after proper treatment. Details of Leachate collection and treatment system is attached as Annexure-1 and TCLP test will be performed on leachates when the operation will be started.		Date: 28/05/2025
10	WATER QUALITY MONITORING AND PRESERVATION	Fresh water requirement shall not exceed 50KLD during Operational phase. Extraction of ground water shall be subject to the permission of CGWA.
PPs Submission: Being Complied Fresh water requirement will be ensured within 50 KLD during operational phase. GW NOC Received from CGWA: CGWA/NOC/IND/ORIG/2024/19917 Dated:16.02.2024		Date: 28/05/2025

11	WATER QUALITY MONITORING AND PRESERVATION	Treated wastewater of 20KLD shall be recycle within the premises as committed.
PPs Submission: Agreed to Comply Treated wastewater will be recycle within the premises when the operation will be started.		Date: 28/05/2025
12	WATER QUALITY MONITORING AND PRESERVATION	No Fresh water to be used except for potable use.
PPs Submission: Agreed to Comply We will abide by the condition		Date: 28/05/2025
13	WATER QUALITY MONITORING AND PRESERVATION	Six number of Piezometer wells shall be installed in and around the project site to monitor the GW quality In consultation with SPCB or State Pollution Controll Comitee/CPCB. Trend anaylisis of gground water quality shall be carried out each season and information shall be submitted to the SPCB and the regional Office of MoEF & CC.
PPs Submission: Being Complied Piezometer wells shall be installed. Trend analysis of ground water quality is being carried out and information being submitted as Annexure-2.		Date: 28/05/2025
14	WATER QUALITY MONITORING AND PRESERVATION	GW monitoring for Physio-Chemical parameters to be carried out and record maintained by providing piezometric wells along the flow channel (Up and Down)
PPs Submission: Being Complied Ground water quality report is attached as Annexure-3. Piezometer procurement is in progress.		Date: 28/05/2025
15	AIR QUALITY MONITORING AND PRESERVATION	Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.
PPs Submission: Being Complied Ambient air quality monitoring is being done and reports are attached as Annexure-4.		Date: 28/05/2025
16	WATER QUALITY MONITORING AND PRESERVATION	The depth of the landfill site shall be decided based on the ground water table at the site to avoid contamination of the ground water
PPs Submission: Being Complied The depth of the landfill site has been decided and considered in engineering design based on the ground water table at the site to comply with Solid waste management design norms.		Date: 28/05/2025
17	MISCELLANEOUS	Environmental Monitoring Programe shall be implemented as per EIA report and guidelines prescribed by CPCB for hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site shall be carried out.
PPs Submission: Being Complied Environmental monitoring will be done as per EIA Report. Ground water and soil monitoring is done to check the contamination. Soil Monitoring report is attached as Annexure-5		Date: 28/05/2025
18	MISCELLANEOUS	The Company shall ensure proper handling of spillages by introducing spill control procedures for various chemicals.

PPs Submission: Agreed to Comply Spillage control measures will be taken during operational stage.		Date: 28/05/2025
19	Statutory compliance	Online real time continuous monitoring facilities shall be provided as per CPCB or State Board Directions.
PPs Submission: Agreed to Comply Online effluent quality monitoring station will be installed as per CPCB or State Board Direction		Date: 28/05/2025
20	WATER QUALITY MONITORING AND PRESERVATION	Scrubber water, Leachate water or wheel wash shall be treated properly and recycled to achieve zero liquid discharge.
PPs Submission: Agreed to Comply We will abide by the condition when the project will be operational.		Date: 28/05/2025
21	MISCELLANEOUS	Gas generated in the Landfill should be properly collected, monitored and flared.
PPs Submission: Complied Gas generation is not expected as inert materials are being disposed in landfill.		Date: 28/05/2025
22	Human Health Environment	Pre-medical check up to carried out on workers at the time of employment and regular medical record to be maintained.
PPs Submission: Being Complied Premedical checkup is carried out at the time of employment and at the time of gate pass renewal. Regular medical check -up record is maintained		Date: 28/05/2025
23	Human Health Environment	Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires, explosion or any unplanned sudden or non-sudden release of hazardous waste constituents to air, soil or surface water.
PPs Submission: Being Complied As the said facility is under project, draft Emergency plan is available. Final plan will be prepared and submitted when facility comes into operation.		Date: 28/05/2025
24	WATER QUALITY MONITORING AND PRESERVATION	Rainwater runoff from the landfill area shall be collected and treated in the LTP.
PPs Submission: Agreed to Comply We will abide by the condition.		Date: 28/05/2025
25	WATER QUALITY MONITORING AND PRESERVATION	Adequate covering arrangement in site should be done to prevent the runoff of rainwater in the project premises.
PPs Submission: Agreed to Comply Rainwater run-offs drain network and storage shall be developed to prevent runoff of rainwater from premises		Date: 28/05/2025
General Conditions		

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	The project proponent shall abide by all the commitment and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the Expert Appraisal committee.
PPs Submission: Agreed to Comply We shall comply the commitment and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the Expert Appraisal committee.		Date: 28/05/2025
2	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate change (MoEF&CC).
PPs Submission: Agreed to Comply We will abide by the condition.		Date: 28/05/2025
3	MISCELLANEOUS	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.
PPs Submission: Agreed to Comply Agreed and noted		Date: 28/05/2025
4	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
PPs Submission: Agreed to Comply Agreed and noted		Date: 28/05/2025
5	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
PPs Submission: Agreed to Comply Agreed and noted		Date: 28/05/2025
6	Statutory compliance	The project proponent shall obtain CTE/Operate under the provisions of under the Air Act,1981 and Water Act,1974 from the concern SPCB.
PPs Submission: Complied CTE obtained vide no. JSPCB/HO/RNC/CTE-15672282/ 2023/397, dated 30-06-2023. CTO will be obtained after completion of establishment.		Date: 28/05/2025
7	Statutory compliance	The project proponent shall obtain the necessary permission from the CGWA, in case of drawl of ground water / from the competent authority concern in case of drawn of surface water required for the project
PPs Submission: Complied GW NOC Received from CGWA vide letter no.: CGWA/NOC/IND/ ORIG/2024/19917 dated:16/02/2024.		Date: 28/05/2025
8	Statutory compliance	A Certificate of Adequacy of available power from agency supplying power to the project along with the load allowed for the

		project should be obtained.
PPs Submission: Complied Power is made available at site by JBVNL against application no: NC999565378 dated: 24-07-2023, after payment of requisite amount as per demand received.		Date: 28/05/2025
9	Statutory compliance	All other statutory clearances such as the approvals for storage of diesel from chief controller of Explosives, Fire department, civil aviation Department shall be Obtained, as applicable by project proponent from the respective competent authorities.
PPs Submission: Being Complied Factory Map approval taken from Department of Labour, Employment and Training Office of The Dy. Chief Inspector of Factories, Jamshedpur vide letter no: DCIF-J/2022-104/P dated 19.10.2023		Date: 28/05/2025
10	MISCELLANEOUS	Traffic congestion near the entry and exit point from the roads adjoining the project site shall be avoided. parking should be fully internalized, and no public space should be utilized.
PPs Submission: Being Complied We will abide by the condition		Date: 28/05/2025
11	Statutory compliance	The project proponent shall obtain forest clearance under the provision of Forest (Conservation) Act 1980, in case of the diversion of forest land for non-forest purpose involved in the project.
PPs Submission: Complied Not applicable.		Date: 28/05/2025
12	Statutory compliance	The project proponent shall obtain clearance from National Board for Wildlife, If applicable.
PPs Submission: Complied Not applicable.		Date: 28/05/2025
13	Statutory compliance	The Project proponent shall prepare a site-specific Conservation plan & Wildlife management plan and approved by the chief wildlife Warden. The recommendations of the approved site-specific conservation Plan /Wildlife management plan shall be implemented in consultation with the state forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-1 species in the study area)
PPs Submission: Complied Not applicable.		Date: 28/05/2025
14	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect standards prescribed in environment (protection) rules 1986 and connected to SPCB AND CPCB online Servers and calibrate this system from time to time according to equipment supplier specification through labs recognised under environment (PROTECTION) act, 1986 or NABL accredited laboratories. (For projects involving incineration) to equipment supplier specification through labs recognised under environment (PROTECTION) act, 1986 or NABL accredited laboratories. (For projects involving incineration)

PPs Submission: Complied Not applicable because no stack is envisaged as it is a landfill site for inert materials generated from municipal solid waste management		Date: 28/05/2025
15	AIR QUALITY MONITORING AND PRESERVATION	As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder adsorption of partial acidity and VOCs (if any); bag filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO ₂ , NO _x and CO from the incinerator stack. the periodical monitoring of dioxins and furans in the stack emission shall be carried out.
PPs Submission: Complied Not applicable site is a landfill site for inert materials generated from municipal solid waste management and no machinery/ process stack will be involved which may emit the said emissions.		Date: 28/05/2025
16	AIR QUALITY MONITORING AND PRESERVATION	Analysis of dioxins and furans shall be done through CSIR-NATIONAL institute for interdisciplinary Science and technology (NIIST) Thiruvananthapuram or equivalent NABL Accredited laboratory.
PPs Submission: Complied Not applicable as it is a landfill site for inert materials generated from municipal solid waste management and no machinery/ process stack will be involved which may emit the said emissions.		Date: 28/05/2025
17	AIR QUALITY MONITORING AND PRESERVATION	Incinerator shall be designed as per CPCB guidelines. Energy shall be recovered from incinerator
PPs Submission: Complied Not applicable as it is a landfill site for inert materials generated from municipal solid waste management and no machinery/ process stack will be involved which may emit the said emissions. There is no incinerator.		Date: 28/05/2025
18	AIR QUALITY MONITORING AND PRESERVATION	Gas generated in the landfill should be properly collected, monitored and flared.
PPs Submission: Complied Not applicable as only inert materials are being disposed in landfill, so gas generation is not expected.		Date: 28/05/2025
19	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install system to carry out ambient air quality monitoring for common /criterion parameters relevant to the main pollutants released (e.g., PM ₁₀ and PM _{2.5} in reference to SO ₂ and NO _x emissions) within and outside the plant area atleast at four loaction (One within and three outside the plant area at the angle of 120 degree each), covering upwind and downward wind.
PPs Submission: Being Complied Ambient air quality monitoring for common /criterion parameters relevant to the main pollutants released is being done as per requirement		Date: 28/05/2025
20	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install continues effluent monitoring system with respect to standard prescribed in environment (protection) rules 1986 and connected to SPCB and CPCB online

		servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under environment (protection) act, 1986 or NABL accredited laboratories.
PPs Submission: Agreed to Comply Continuous Effluent monitoring system will be installed with Leachate treatment plant.		Date: 28/05/2025
21	WATER QUALITY MONITORING AND PRESERVATION	Sufficient number of piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with state pollution control board /CPCB. TREND analysis of ground water quality shall be carried out each season and information shall be submitted to SPCB and the regional office of MoEF&CC
PPs Submission: Being Complied Piezometer wells shall be installed. Trend analysis of ground water quality is being carried out and submitted as Annexure 2.		Date: 28/05/2025
22	WATER QUALITY MONITORING AND PRESERVATION	The depth of the land fill site shall be decided based on the ground water table at the site.
PPs Submission: Being Complied The depth of the landfill site has been decided and considered in engineering design based on the ground water table at the site to comply with Solid waste management design norms.		Date: 28/05/2025
23	WATER QUALITY MONITORING AND PRESERVATION	Rainwater runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant.
PPs Submission: Agreed to Comply We will abide by the condition.		Date: 28/05/2025
24	WATER QUALITY MONITORING AND PRESERVATION	Total freshwater use shall not exceed the proposed requirement as provided in the project details. prior permission from competent authority shall be obtained for use of fresh water.
PPs Submission: Agreed to Comply We will abide by the condition. As per proposal requirement GW NOC Received from CGWA: CGWA/NOC/ IND/ORIG/2024/19917 Dated: 16.02.2024		Date: 28/05/2025
25	WATER QUALITY MONITORING AND PRESERVATION	The company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.
PPs Submission: Agreed to Comply Spillage control measures will be taken at every stage after commissioning of the project. Covered spill proof vehicles will be used.		Date: 28/05/2025
26	WATER QUALITY MONITORING AND PRESERVATION	All leachates arising from premises should be collected and treated in the ETP followed by RO. RO rejects shall be evaporated in MEE. toxicity characteristics leaching procedure (TCLP) test to be performed on leachates.
PPs Submission: Agreed to Comply We will abide by the condition after commissioning of the project. LTP is proposed at site. Toxicity characteristics leaching procedure (TCLP) test will be performed on leachates after starting of operation		Date: 28/05/2025

27	WATER QUALITY MONITORING AND PRESERVATION	Scrubber water, leachate water or wheel wash effluent shall be treated in the effluent treatment plant followed by RO to achieve zero liquid discharge.
PPs Submission: Agreed to Comply We will abide by the condition after commissioning of the project		Date: 28/05/2025
28	WATER QUALITY MONITORING AND PRESERVATION	Sewage treatment plant shall be provided to the wastewater generated from the project. Treated water shall be reuse within the project.
PPs Submission: Being Complied We are engaging local people as daily wagger for execution of project. Hence no permanent sewage treatment plant required. For temporary and small requirement, we are providing septic tank followed by soak pit.		Date: 28/05/2025
29	WATER QUALITY MONITORING AND PRESERVATION	A certificate from the component authority for discharging treated effluent/untreated effluent into the public sewer/disposal/drainage systems along with the final disposal point should be obtained
PPs Submission: Agreed to Comply Zero Effluent Discharge is Proposed.		Date: 28/05/2025
30	WASTE MANAGEMENT	No non-Hazardous waste, as defined under hazardous and other waste (Management and Transboundary Movement) Rules,2016, shall be handled in the premises
PPs Submission: Agreed to Comply We will abide by the condition.		Date: 28/05/2025
31	WASTE MANAGEMENT	The Solid wastes shall be segregated, managed and disposed as per the norms of SWM Rules,2016.
PPs Submission: Agreed to Comply We will abide by the condition.		Date: 28/05/2025
32	WASTE MANAGEMENT	Any wastes from C&D activates related thereto shall be managed so as to strictly conform to the C&D waste management rules, 2016
PPs Submission: Agreed to Comply We will abide by the same		Date: 28/05/2025
33	WASTE MANAGEMENT	A Certificate from the competent authority handling MSW should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the MSW generated from project.
PPs Submission: Being Complied TS-UISL is handling the MSW of command area and is so authorized to do so and we certify that the project is adequate to cater the existing civic capacities of handling the MSW generated from command area		Date: 28/05/2025
34	WASTE MANAGEMENT	Project should ensure that the site is properly cordoned off from general movement and no unauthorized person or goods permitted to enter the premises. Necessary security provision should be made as a condition in the authorization under the hazardous and other waste (management and transboundary movement) rules,2016 to prevent unwanted access

PPs Submission: Being Complied The site is properly cordoned off from general movement and no unauthorized goods or person is permitted to enter the premises. Security personnel deployed at entry/exit gate.		Date: 28/05/2025
35	MISCELLANEOUS	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 02kms radius of the project is maintained and improved upon after the implementation of the project .This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02kms radius of the site in different scenarios of the space and time and the traffic management plan shall be duly validate and certified by the state urban development department and the P.W.D/ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments .
PPs Submission: Agreed to Comply We will abide by the condition. Route map proposed and will be implemented the same once operation will be started and we ensure to improve the traffic condition after implementation of the project.		Date: 28/05/2025
36	GREENBELT	Green belt shall be developed an area as provided in project details, with native tree species in accordance with forest department. the greenbelt shall inter alia cover the periphery of the project site.
PPs Submission: Agreed to Comply Plantation has been started and greenbelt will be developed as per commitment		Date: 28/05/2025
37	GREENBELT	Topsoil shall be separately stored and used in the development of green belt.
PPs Submission: Being Complied Topsoil is stored separately and is used in green belt development		Date: 28/05/2025
38	PUBLIC HEARING	Emergency Preparation plan based on the Hazard Identification & Risk Assessment HIRA and Disaster management plan shall ne implement.
PPs Submission: Being Complied Emergency Preparation Plan and Standard Working Procedure proposed and shall be implemented		Date: 28/05/2025
39	Human Health Environment	Provision shall be made for the housing of construction labour within the site 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 temporary structures to be removed after the completion of the project.
PPs Submission: Being Complied We are engaging the construction labour from local area of nearby villages who do not stay at site after working hours		Date: 28/05/2025
40	Human Health Environment	Occupational health surveillance of the workers shall be done on regular basis.

PPs Submission: Being Complied We will abide by the condition.		Date: 28/05/2025
41	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent website permanently. (For projects involving incineration)
PPs Submission: Complied The Notice has been advertised in two local newspapers viz. Dainik Jagran (Hindi) and The Avenue Mail (English) on February 17, 2023, and communication to this effect was also sent to the MoEFCC. Details attached as Annexure-6.		Date: 28/05/2025
42	MISCELLANEOUS	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which on shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MOEFCC/SELAA website where it is displayed (for projects in involving only landfill without incineration)
PPs Submission: Complied The Notice has been advertised in two local newspapers viz. Dainik Jagran (Hindi) and The Avenue Mail (English) on February 17, 2023, and communication to this effect was also sent to the MoEFCC. Details attached as Annexure-6.		Date: 28/05/2025
43	MISCELLANEOUS	The copies of the environmental clearance shall be submitted by the project proponents to the Head of local bodies, Panchayats and Municipal Bodies in addition to the relevant of the Government who in turn has to display the same for 30 days from the date of receipt.
PPs Submission: Complied Environmental Clearance report Submitted to local bodies and acknowledgment attached as Annexure-7.		Date: 28/05/2025
44	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance condition, including results of monitored data on their website and update the same on half-yearly basis.
PPs Submission: Complied Half yearly EC Compliance report submitted for FY25 H1 via letter no: PH/587/2024, Date: 28 November 2024. The same is being displayed on our website. https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/		Date: 28/05/2025
45	MISCELLANEOUS	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements /deviation / violation of the environmental / forest / wildlife norms / conditions and/or shareholder, s /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

PPs Submission: Complied Tata steel has approved Environmental Policy. Attached as Annexure-8		Date: 28/05/2025
46	MISCELLANEOUS	A separate environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up Under the control of senior Executive, who will directly report to the head of the organization.
PPs Submission: Complied TATA STEEL has dedicated environmental cell with qualified personnel.		Date: 28/05/2025
47	MISCELLANEOUS	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the six-monthly compliance Report.
PPs Submission: Being Complied EMP studies conducted. Separate budgets for Rs. 5 Lakhs per Year has been provided for environmental Monitoring. EIA/EMP report showing environmental commitment budget and compliance is attached as Annexure -9.		Date: 28/05/2025
48	MISCELLANEOUS	Self- environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
PPs Submission: Agreed to Comply Currently site is not in operation. Self-Assessment audit shall be conducted after commissioning of the project.		Date: 28/05/2025
49	MISCELLANEOUS	The project proponent shall submit six - monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest, and climate change at environment clearance portal.
PPs Submission: Complied Half yearly EC Compliance report submitted for FY25H1 via letter no: PH/587/2024, Date: 28 November 2024 and uploaded the same on the portal.		Date: 28/05/2025
50	MISCELLANEOUS	The project proponent shall submit the environmental statement for each financial year in Form -V to the concerned State Pollution Control Board as prescribed under the environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
PPs Submission: Complied Facility is still under project stage. After completion of project and grant of CTO, yearly environmental statement will be submitted		Date: 28/05/2025
51	MISCELLANEOUS	The criteria pollutant levels namely, PM2.5, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain (in case incineration involved).

PPs Submission: Complied This is not applicable, as there is no stack proposed.		Date: 28/05/2025
52	MISCELLANEOUS	The project proponent 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, commencing the land development work and start of production operation by the project.
PPs Submission: Agreed to Comply We will abide by the condition		Date: 28/05/2025
53	MISCELLANEOUS	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
PPs Submission: Agreed to Comply We shall comply to the stipulations made by the State Pollution Control Board and the State Government.		Date: 28/05/2025
54	MISCELLANEOUS	The Regional office of this Ministry shall monitor compliance of the stipulated condition. The project authorities should extend full corporation to officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
PPs Submission: Agreed to Comply Agreed and noted		Date: 28/05/2025
55	MISCELLANEOUS	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 and other Wastes (Management and Transboundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India /High Courts and any other Court of Law relating to the subject matter.
PPs Submission: Agreed to Comply Agreed and noted		Date: 28/05/2025
56	MISCELLANEOUS	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.
PPs Submission: Agreed to Comply Agreed and noted		Date: 28/05/2025
Visit Remarks		
Last Site Visit Report Date:		26/05/2025
Additional Remarks:		last site visit done on 26/05/2025. Project is still under construction.
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's		

reference purpose.