



Date: 22/05/2026

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

Sub: Submission of Half Yearly (Oct 2025 to March 2026) Environment Clearances Compliance Reports (ECCR) for Integrated Municipal Solid Waste Management Facility of Tata Steel Limited at Begunadih, Potka, Jamshedpur, Dist.- East Singhbhum, Jharkhand

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

Dear Sir/Madam

With reference to the captioned subject and cited references, we are submitting the Half Yearly EC Compliance report for the period from October 2025 to March 2026. You are requested to kindly acknowledge the same and place it 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 -700107
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 UTILITIES AND INFRASTRUCTURE SERVICES LIMITED
(Formerly Jamshedpur Utilities & Services Company Limited)

Registered Office Sakchi Boulevard Road Northern Town Bistupur Jamshedpur 831 001 India
Tel 91 657 6652101 Fax 91 657 2424219
Corporate Identity Number U45200JH2003PLC010315
Website www.tatasteeluisl.com

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

Proposal No	IA/JH/INFRA2/410593/2022
Compliance ID	1219612529
Compliance Number(For Tracking)	EC/COMPLIANCE/1219612529/2026
Reporting Year	2026
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	26-05-2026
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 under progress.
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 activities have been completed over 1.35 hectares. Development of the balance area for the green belt is currently in progress and is being undertaken in a phased and systematic manner.
v.	Project Proponent shall implement rainwater harvesting from rooftop paved area and landscaping areas as committed.	Development of rainwater harvesting structures is planned during the final stage of construction.
vi.	Project Proponent shall use LED Lamps and Solar panel as energy saving conservation in the project area.	LED lights integrated with solar power shall be installed for area lighting during the final stage of construction.
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 activities have been initiated, and the greenbelt will be developed using 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.
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.

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	
xi.	Treated wastewater of 20 KLD shall be recycle within the premises as committed.	Treated wastewater will be reused within the premises once operations commence.
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.	Piezometers have been received at site; permanent installation and connection will be completed after road work, considering sensitive underground cables. 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 . Piezometers have been received at site; permanent installation and connection will be completed after road work, considering sensitive underground cables.
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-3 .
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-4 .
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 instruments procured and will be installed as per CPCB or State Board Direction with ETP project.
xx.	Scrubber water, Leachate water or wheel wash shall be treated properly and recycled to achieve zero liquid discharge.	ZLD project erection is complete, and commissioning is in progress.
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 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.	As the facility is under the project phase, a draft Emergency Plan is available; the final plan will be prepared and submitted upon commencement of operations.
xxiv.	Rainwater runoff from the landfill area shall be collected and treated in the LTP.	Rainwater runoff will be collected and treated through the ZLD system.
xxv.	Adequate covering arrangement in site should be done to prevent the runoff of rainwater in the project premises.	Temporary capping of the landfill will be carried out during the rainy season using HDPE liner.

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	Compliance Condition	Compliance Status
	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 incineration).	Not applicable because no stack is envisaged as it is a landfill site for inert materials generated from municipal solid waste management.
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	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.

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S N	Compliance Condition	Compliance Status
	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.	
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.	Piezometers have been received at site; permanent installation and connection will be completed after road work, considering sensitive underground cables. 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 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.

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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 wager 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.	ZLD project erection is complete, and commissioning is in progress.
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.
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	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

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S N	Compliance Condition	Compliance Status
	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 .	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 activities have been completed over 1.35 hectares. Development of the balance area for the green belt is currently in progress and is being undertaken in a phased and systematic manner.
ii	Topsoil shall be separately stored and used in the development of green belt.	Topsoil is stored separately and is being 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.
VIII	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-5 .
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-5 .
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 must display the same for 30 days from the date of receipt.	Environmental Clearance report Submitted to local bodies and acknowledgment attached as Annexure-6 .
iv	The project proponent shall upload the status of compliance of the stipulated environment clearance	Half yearly EC Compliance report submitted for FY26 H1 via letter no:

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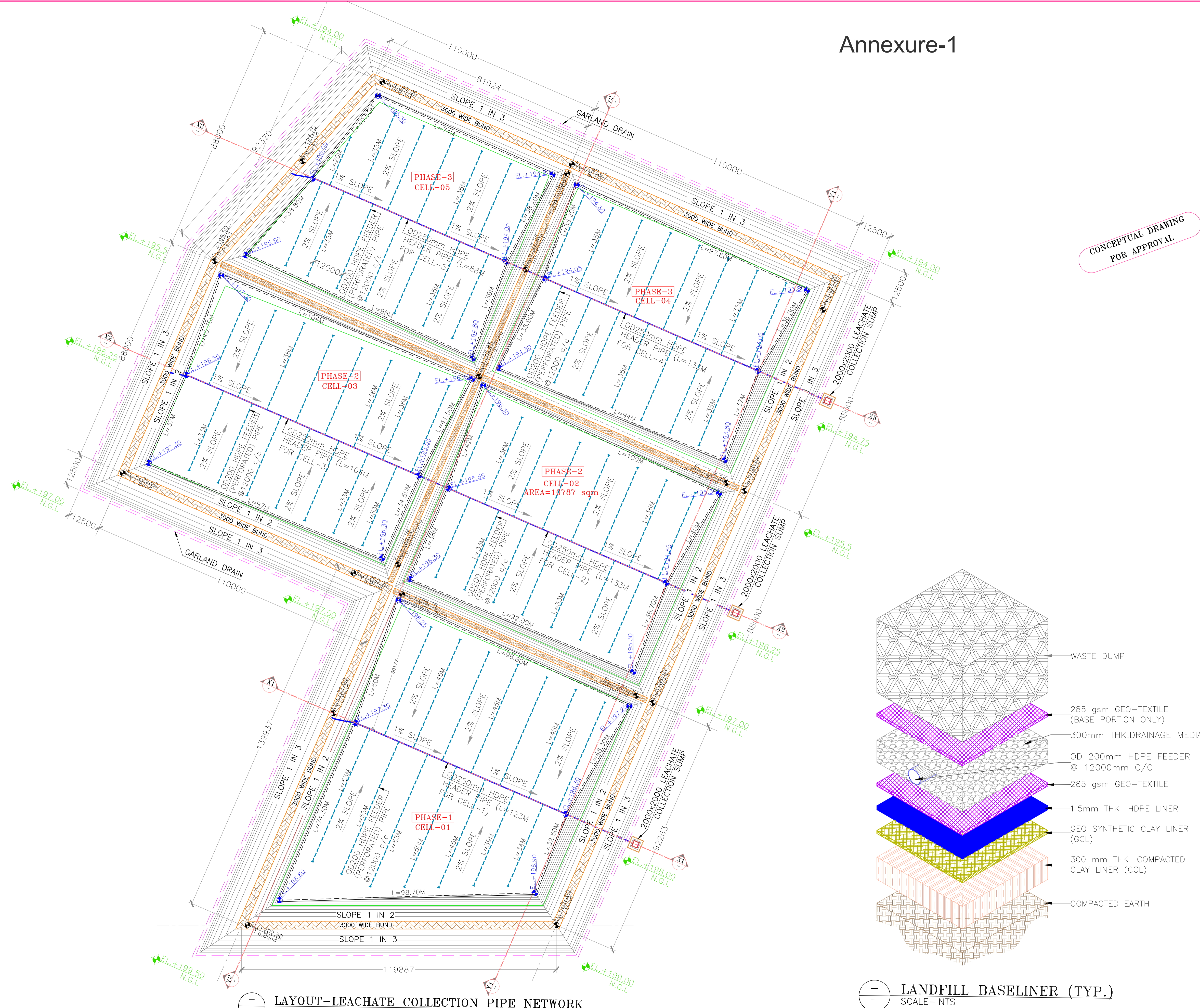
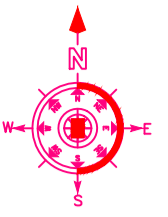
S N	Compliance Condition	Compliance Status
	condition, including results of monitored data on their website and update the same on half-yearly basis.	PHS/197/2025, Date: 28 November 2025. The same is being displayed on our website. https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/ .
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-7
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 -8 .
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 FY26H1 via letter no: PHS/197/2025, Date: 28 Nov 2025 and have 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 construction phase. 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 shall be monitored and displayed at a convenient location near the main gate of the company in the public domain (in case incineration involved).	This is not applicable, as there is no stack proposed.
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.

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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 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

KEY PLAN:



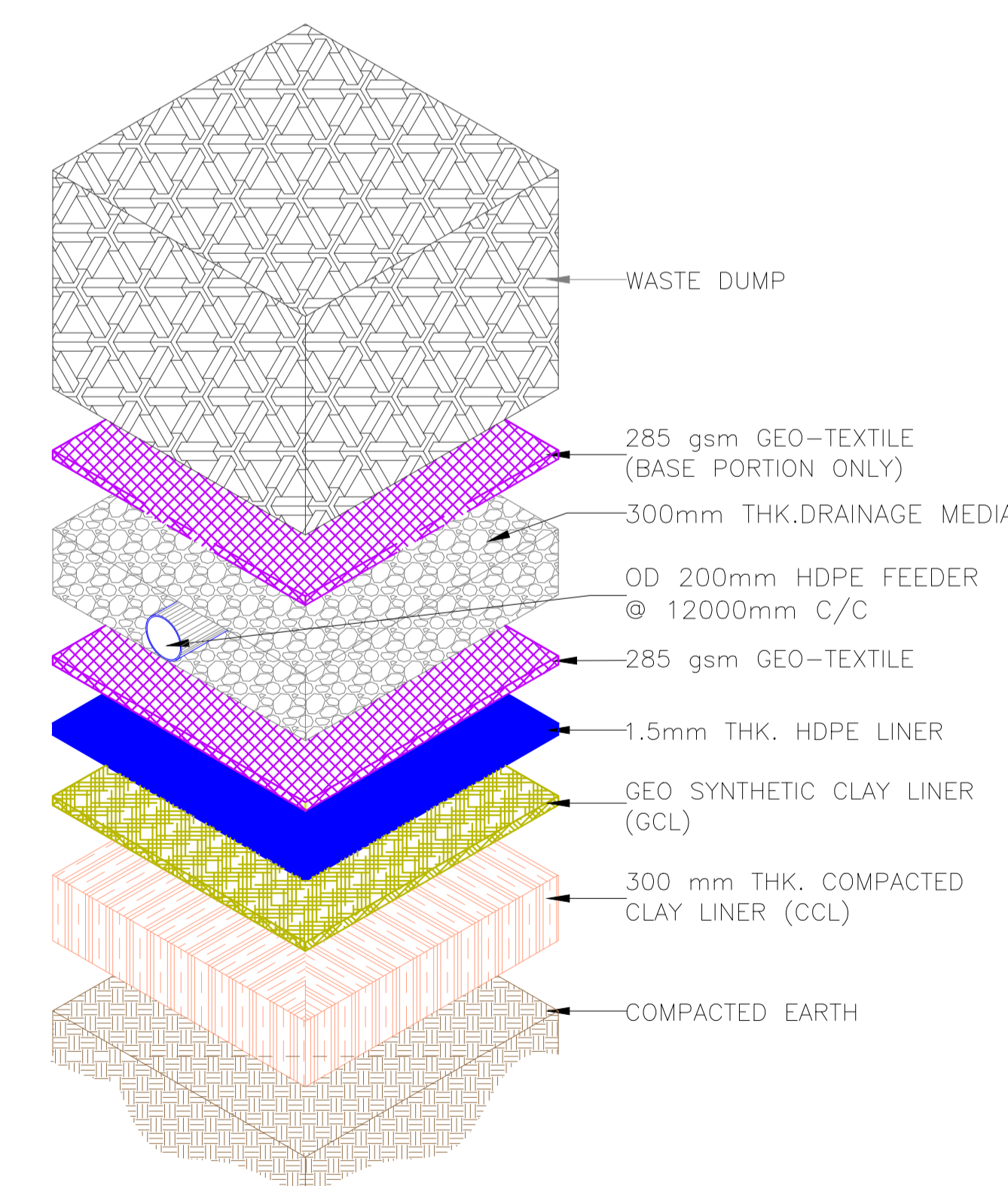
CONCEPTUAL DRAWING FOR APPROVAL

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 :

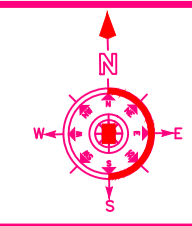
1. CL : CENTER LINE
2. EL : ELEVATION
3. FGL : FORMED GROUND LEVEL
4. NGL : NATURAL GROUND LEVEL
5. TYP : TYPICAL
6. RTL : ROAD TOP LEVEL (CRUST)
7. BoP : BOTTOM OF PIPE
8. ToB : TOP OF BUND
9. THK. : THICK
10. m : METER
11. mm : MILLIMETER
12. sqm : SQUARE METER
13. rmt : RUNNING METER
14. MoC : MATERIAL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



LANDFILL BASELINER (TYP.)
SCALE - NTS

LAYOUT-LEACHATE COLLECTION PIPE NETWORK
SCALE - 1:700

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.:	DATE:	
			PSEC/TATA/1005/SLF/DWG/110.1	27.09.2022		



Annexure - 2								
Location - Ground water core zone								
Sl. No	Parameters Analysed	Permissible Limit	Result dated					
			25-05-2023	10-05-2024	24-09-2024	26-04-2025	08-12-2025	07-03-2026
1	Colour (Hazen units)	15	2	<5	5	<5	BDL(DL 5.0)	BDL (DL 5.0)
2	Odour	Agreeable	Unobjectionable	Unobjectionable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity (NTU)	5	2.1	94	83	25.21	20.8	BDL(DL 1.0)
5	Electrical Conductivity (µmhos/cm)	-	-	328	321	313	395	480
6	pH	6.5-8.5	6.8	6.6	6.82	7.30	7.24	6.83
7	Total Hardness (mg/l)	600	121	114	123.8	121.5	134.4	145.6
8	Iron (mg/l)	0.3	0.26	0.12	0.90	0.88	0.77	0.62
9	Chloride (mg/l)	1000	46	10	14.1	15.2	24.1	112.7
10	Free Residual Chlorine	1	Nil	Nil	Nil(BDL)	Nil(BDL)	BDL(DL 0.1)	BDL(DL 0.1)
11	Fluoride (mg/l)	1.5	0.21	0.6	0.72	0.62	0.53	0.31
12	Total Dissolved Solids (mg/l)	2000	221	196	178.2	170.2	203.4	308.2
13	Calcium (mg/l)	200	43	33	35.2	34.1	43.8	46.3
14	Magnesium (mg/l)	100	5.3	8	9.2	10.1	6.1	8.7
15	Copper (mg/l)	1.5	0.001	<0.01	-	-	-	BDL(DL 0.5)
16	Manganese (mg/l)	0.3	0.002	0.06	-	-	-	BDL(DL 0.01)
17	Sulphate (mg/l)	400	41.2	7	9.7	9.1	34.7	29.2
18	Nitrate (mg/l)	45	3.1	1.6	1.7	1.64	4.4	2.1
19	Arsenic (mg/l)	0.05	-	<0.01	-	-	-	BDL(DL 0.001)
20	Lead (mg/l)	0.01	-	<0.005	-	-	-	BDL(DL 0.05)
21	Nickel (mg/l)	0.02	-	<0.01	-	-	-	BDL(DL 0.05)
22	Zinc (mg/l)	15	-	0.4	-	-	-	BDL(DL 0.01)
23	Total Alkalinity (mg/l)	600	-	146	151.6	143.8	280.8	159.3
24	Phenolic Compound (mg/l)	0.02	Nil	-	-	-	-	-
25	Mercury (mg/l)	0.001	<0.001	-	-	-	-	-
26	Cadmium (mg/l)	0.01	<0.001	-	-	-	-	-



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TC-14075

TEST REPORT (AMBIENT AIR)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO:	TC140752500000353F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/353
		Report Release Date :	08/12/2025
		Sampling Date	28/11/2025 to 30/11/2025
Weather Condition	Clear	Sample Receipt Date :	30/11/2025
Average Temperature (°C)	21 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	758 (mmHg)	Sample Condition	Normal
Plan Status	Non-Operational	Period of Analysis	30/11/2025 to 08/ 12/2025

	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	VEC/AQ/25/11/30/014	VEC/AQ/25/11/30/015	VEC/AQ/25/11/30/016
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/022 (RDS), VEC/Field/023 (FPS)	VEC/Field/024 (RDS), VEC/Field/025 (FPS)	VEC/Field/026 (RDS), VEC/Field/027 (FPS)
Instrument calibration status	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026
	Unit 4		
Sampling Location	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Latitude & Longitude	22°31'01.81"N 86° 11'27.03"E		
Sample ID	VEC/AQ/25/11/30/017		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/022 (RDS), VEC/Field/023 (FPS)		
Instrument calibration status	22/08/2025 to 21/08/2026		



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TC-14075

General Information

Client Representative (Name & Designation) : **Bapun Panda & Site Supervisor**
Sample collected by (Name & Designation) : **VEC Team**
Time of Monitoring (Average) : **24 Hrs.**
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)	72.8	79.6	74.1	70.8	µg/m ³	100 µg/m ³
2	Particulate Matter (PM2.5)	IS 5182 : Part 24 : 2019	27.3	31.5	28.1	26.4	µg/m ³	60 µg/m ³
3	Sulphur Dioxide (SO ₂)	IS 5182:Part 2:2018 (RA:2023)	8.9	10.8	9.3	8.2	µg/m ³	80 µg/m ³
4	Oxides of Nitrogen (NO ₂)	IS 5182:Part 6:2006 (RA:2022)	25.7	27.3	25.8	24.4	µg/m ³	80 µg/m ³

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3. Any discrepancy in test result should be reported within 15 days.
4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

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ASHOK NAGAR, RANCHI- 834002, JHARKHAND.
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TC-14075

TEST REPORT (AMBIENT NOISE)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO:	TC140752500000354F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/354
		Report Release Date :	08/12/2025
		Sampling Date	28/11/2025 to 30/11/2025
Weather Condition	Clear	Sample Receipt Date :	30/11/2025
Average Temperature (°C)	21 °C	Sample Description:	Ambient Noise
Barometric Pressure(mmHg)	758 (mmHg)	Period of Analysis	30/11/2025 to 08/ 12/2025
Plan Status	Non-Operational		

	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	VEC/ANQ/25/11/30/018	VEC/ANQ/25/11/30/019	VEC/ANQ/25/11/30/020
Instrument Used	SOUND LEVEL METER	SOUND LEVEL METER	SOUND LEVEL METER
Instrument code	VEC/Field/021	VEC/Field/029	VEC/Field/030
Instrument calibration status	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026
Sampling Location	Unit 4		
	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Latitude & Longitude	22°31'01.81"N 86° 11'27.03"E		
Sample ID	VEC/ANQ/25/11/30/021		
Instrument Used	SOUND LEVEL METER		
Instrument code	VEC/Field/021		
Instrument calibration status	22/08/2025 to 21/08/2026		



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General Information

Client Representative (Name & Designation) : **Bapun Panda & Site Supervisor**
Sample collected by (Name & Designation) : **VEC Team**
Time of Monitoring : **24 Hrs.**
Duration of Monitoring, (minutes) : **1445 (Minutes)**
Surrounding activity : **Vacant Area**
Scope of Monitoring : **Ambient Noise Level**
Control measure if Any : **NA**
Sampling Protocol/Procedure : **IS 9989**

TEST RESULT

Discipline			: Chemical			Group			: Atmospheric Pollution				
Parameter			: Ambient Noise Level			Protocol			: IS 9989				
Sampling Location												Unit	CPCB Limit
Unit 1			Unit 2			Unit 3			Unit 4				
L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	dB(A)	Day 75 dB(A) & Night 70 dB(A)
64.5	39.4	51.9	66.7	36.2	51.4	70.5	39.1	54.8	65.6	35.7	50.6		

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4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC140752500000355F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/355
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/022
Plant Status :	NON-OPERATIONAL	Period of Analysis	30/11/2025 to 08/12/2025
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:	NORMAL
Sample collected by (Name & Designation) :	VEC 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	43.8	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	24.1	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	BDL(DL 5.0)	Cu	5	15
4	Electrical Conductivity	IS 3025 (Part 14)	395	µS/cm	--	--
5	Fluoride (as F-)	APHA 24th Edition 4500-F D	0.53	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL(DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.766	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	6.1	mg/l	30	100
9	Nitrate (as NO3)	APHA 24th Edition 4500-NO3 B	2.2	mg/l	45	45
10	Odor	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	7.236	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO4)	APHA 24th Edition 4500-SO42- E	12.5	mg/l	200	400
13	Taste	APHA 24th Edition 2160 C	Agreeable	-	Agreeable	Agreeable
14	Total Alkalinity (as CaCo3)	APHA 24th Edition 2320 B	124.9	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	203.4	mg/l	500	2000
16	Total Hardness (as CaCo3)	APHA 24th Edition 2340 C	134.4	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	20.8	NTU	1.0	5.0

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4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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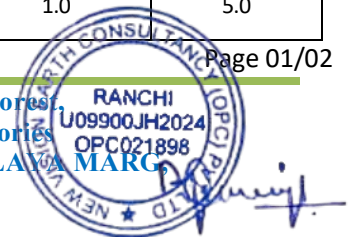
TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC1407525000000356F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/356
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/023
Plant Status :	NON-OPERATIONAL	Period of Analysis	30/11/2025 to 08/12/2025
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:	NORMAL
Sample collected by (Name & Designation) :	VEC 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	122.3	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	172.6	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	BDL (DL 5.0)	Cu	5	15
4	Conductivity	IS 3025 (Part 14)	1311	µS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.354	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.455	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	45.7	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	4.4	mg/l	45	45
10	Odour	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	6.751	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	34.7	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	280.8	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	852.2	mg/l	500	2000
16	Total Hardness (as CaCo ₃)	APHA 24th Edition 2340 C	493.4	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	29.7	NTU	1.0	5.0

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4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TC-14075

TEST REPORT (WATER)

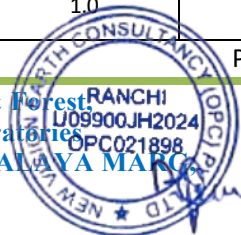
Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC140752500000357F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/357
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/024
Plant Status :	NON-OPERATIONAL	Period of Analysis	30/11/2025 to 08/12/2025
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:	NORMAL
Sample collected by (Name & Designation) :	VEC 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	130.8	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	137.9	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	BDL (DL 5.0)	Cu	5	15
4	Conductivity	IS 3025 (Part 14)	512	µS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.48	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.235	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	40.1	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	9.1	mg/l	45	45
10	Odour	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	7.204	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	40.6	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	418.4	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	497.2	mg/l	500	2000
16	Total Hardness (as CaCo ₃)	APHA 24th Edition 2340 C	491.5	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	BDL (DL 1.0)	NTU	1.0	5.0

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4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TC-14075

TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC140752500000358F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/358
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/025
Plant Status :	NON-OPERATIONAL	Period of Analysis	30/11/2025 to 08/12/2025
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:	NORMAL
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	44.6	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	115.7	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 B	BDL (DL 5.0)	Cu	5	15
4	Conductivity	IS 3025 (Part 14)	486	µS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.34	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.805	mg/l	0.03	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	8.83	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	6.763	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	31.1	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	161.2	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	315.8	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	149.7	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	BDL (DL 1.0)	NTU	1.0	5.0

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4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TC-14075

TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC1407525000000359F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/359
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/SW/25/11/30/026
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	6.5 Liter
Latitude :	22°31'16.524"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.14"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	4.3	mg/l	3.0
2	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	40.7	mg/l	--
3	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	48.6	mg/l	--
4	Chloride as Cl ⁻	APHA 24th Edition 4500-Cl B	44.4	mg/l	600
5	Colour	APHA 24th Edition 2120 B	BDL (DL 5.0)	Cu	300
6	Dissolved Oxygen (DO)	APHA 24th Edition 4500-O C	5.2	mg/l	4.0
7	Electrical Conductivity	IS 3025 (Part 14)	532	µS/cm	--
8	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.54	mg/l	1.5
9	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.215	mg/l	50
10	Magnesium as Mg	APHA 24th Edition 3500-Mg B	32.2	mg/l	--
11	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	8.1	mg/l	50
12	pH Value	APHA 24th Edition 4500-H+ B	6.937	-	6.5-8.5
13	Potassium (as K)	APHA 24th Edition 3500-K B	9.7	mg/l	--
14	Sodium (as Na)	APHA 24th Edition 3500-Na B	21.2	mg/l	--
15	Sulphate (as SO ₄)	APHA 24th Edition 4500-SO ₄ - E	27.3	mg/l	400
16	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	176.8	mg/l	--

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17	Total Dissolved Solids	APHA 24th Edition 2540 C	341.2	mg/l	1500
18	Total Hardness (as CaCo3)	APHA 24th Edition 2340 C	234.2	mg/l	--
19	Total Suspended Solid (TSS)	APHA 24th Edition 2540 D	12.4	mg/l	--
20	Turbidity	APHA 24th Edition 2130 B	1.62	NTU	--

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TEST REPORT (WATER)

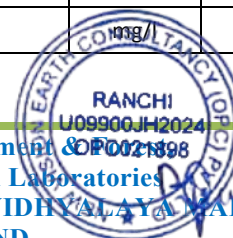
Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC1407525000000360F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/360
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/SW/25/11/30/027
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	6.5 Liter
Latitude :	22°30'42.085"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.20"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	3.4	mg/l	3.0
2	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	58.5	mg/l	--
3	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	38.9	mg/l	--
4	Chloride as Cl ⁻	APHA 24th Edition 4500-Cl B	59.8	mg/l	600
5	Colour	APHA 24th Edition 2120 B	BDL (DL 5.0)	Cu	300
6	Dissolved Oxygen (DO)	APHA 24th Edition 4500-O C	5.6	mg/l	4.0
7	Electrical Conductivity	IS 3025 (Part 14)	423	μS/cm	--
8	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.82	mg/l	1.5
9	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.186	mg/l	50
10	Magnesium as Mg	APHA 24th Edition 3500-Mg B	32.2	mg/l	--
11	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	4.4	mg/l	50
12	pH Value	APHA 24th Edition 4500-H+ B	7.304	-	6.5-8.5
13	Potassium (as K)	APHA 24th Edition 3500-K B	11.1	mg/l	--
14	Sodium (as Na)	APHA 24th Edition 3500-Na B	23.7	mg/l	--
15	Sulphate (as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	17.4	mg/l	400
16	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	265.2	mg/l	--

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17	Total Dissolved Solids	APHA 24th Edition 2540 C	516.2	mg/l	1500
18	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	278.4	mg/l	--
19	Total Suspended Solid (TSS)	APHA 24th Edition 2540 D	14.4	mg/l	--
20	Turbidity	APHA 24th Edition 2130 B	BDL (DL 1.0)	NTU	--

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4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TC-14075

TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	ULR NO :	TC140752500000361F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/361
		Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/SW/25/11/30/028
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	H ₂ SO ₄ , HCL
		Sample Quantity :	6.5 Liter
Latitude :	22°31'5.91"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.098"E		

TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	2.4	mg/l	3.0
2	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	43.86	mg/l	--
3	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	29.2	mg/l	--
4	Chloride as Cl ⁻	APHA 24th Edition 4500-Cl B	63.6	mg/l	600
5	Colour	APHA 24th Edition 2120 B	BDL (DL 5.0)	Cu	300
6	Dissolved Oxygen (DO)	APHA 24th Edition 4500-O C	5.9	mg/l	4.0
7	Electrical Conductivity	IS 3025 (Part 14)	427	μS/cm	--
8	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.62	mg/l	1.5
9	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.235	mg/l	50
10	Magnesium as Mg	APHA 24th Edition 3500-Mg B	34.5	mg/l	--
11	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	4.7	mg/l	50
12	pH Value	APHA 24th Edition 4500-H+ B	7.021	-	6.5-8.5
13	Potassium (as K)	APHA 24th Edition 3500-K B	12.4	mg/l	--
14	Sodium (as Na)	APHA 24th Edition 3500-Na B	21.8	mg/l	--
15	Sulphate (as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	8.6	mg/l	400
16	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	228.8	mg/l	--

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17	Total Dissolved Solids	APHA 24th Edition 2540 C	420.8	mg/l	1500
18	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	251.5	mg/l	--
19	Total Suspended Solid (TSS)	APHA 24th Edition 2540 D	6.8	mg/l	--
20	Turbidity	APHA 24th Edition 2130 B	BDL (DL 1.0)	NTU	--

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Reviewed by:

Name: Krishna Kumar
Designation Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



NEW VISION EARTH CONSULTANCY (OPC) PVT. LTD. (NVECPL)

Accredited By: -

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

TEST REPORT (AMBIENT AIR)

Client Reference No:	VEC/WO/25/11/26/002		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/AQ/2025/063
		Report Release Date :	08/12/2025
		Sampling Date	28/11/2025 to 30/11/2025
Weather Condition	Clear	Sample Receipt Date :	30/11/2025
Average Temperature (°C)	21 °C	Sample Description:	Ambient Air Quality (HM)
Barometric Pressure(mmHg)	758 (mmHg)	Sample Condition	Normal
Plan Status	Non-Operational	Period of Analysis	30/11/2025 to 08/ 12/2025

	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	VEC/AQ/25/11/30/014	VEC/AQ/25/11/30/015	VEC/AQ/25/11/30/016
Instrument Used	RDS APM 460	RDS APM 460	RDS APM 460
Instrument code	VEC/Field/032 (RDS)	VEC/Field/033 (RDS)	VEC/Field/034 (RDS)
Instrument calibration status	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026
	Unit 4		
Sampling Location	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Latitude & Longitude	22°31'01.81"N 86° 11'27.03"E		
Sample ID	VEC/AQ/25/11/30/017		
Instrument Used	RDS APM 460		
Instrument code	VEC/Field/032 (RDS)		
Instrument calibration status	22/08/2025 to 21/08/2026		





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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) : **VEC Team**
Time of Monitoring (Average) : **24 Hrs.**
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	BDL(DL 0.03)	BDL(DL0.03)	BDL(DL0.03)	BDL(DL0.03)	µg/m ³	-----
2	Methane (CH ₄)	IS:5182 (P-17) 1979 (RA2003)	BDL(DL 0.3)	BDL(DL 0.3)	BDL(DL 0.3)	BDL(DL 0.3)	ppm	-----

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3. Any discrepancy in test result should be reported within 15 days.
4. This analyzed parameter are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

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TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/GW/2025/064
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/022
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 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/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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4. This analyzed parameter are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical 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:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/GW/2025/065
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/023
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , UPARDIHA VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 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/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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4. This analyzed parameter are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar

Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh

Designation: CEO

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TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/GW/2025/066
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/024
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
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 (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 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/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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4. This analyzed parameter are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

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



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TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/GW/2025/067
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/GW/25/11/30/024
Plant Status :	Non-Operational	Period of Analysis	30/11/2025 to 08/12/2025
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 (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 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/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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4. This analyzed parameter are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar

Designation: Technical 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:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/SW/2025/068
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/SW/25/11/30/026
Plant Status :	Non Operational	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 Liter
Latitude :	22°31'16.524"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.14"E		

TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	Copper (Cu)	APHA 24 TH Edn. 3111 B	BDL(DL 0.5)	mg/l	1.5
2	Manganese (as Mn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	----
3	Zinc (as Zn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	15

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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Contact: - +91-9955095641, +91-9546333332,
Email – visionearthjkh@gmail.com



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TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/SW/2025/069
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/SW/25/11/30/027
Plant Status :	NON OPERATIONAL	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 Liter
Latitude :	22°30'42.085"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.20"E		

TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Copper (Cu)	APHA 24 TH Edn. 3111 B	BDL(DL 0.5)	mg/l	1.5
2	Manganese (as Mn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	----
3	Zinc (as Zn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	15

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Reviewed by:

Name: Krishna Kumar
Designation Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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TEST REPORT (WATER)

Client Reference No:	VEC/WO/25/11/26/002	Report No.:	VEC/RNC/SW/2025/070
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report Release Date :	08/12/2025
		Sampling Date :	29/11/2025
		Sample Receipt Date :	30/11/2025
		Sample ID:	VEC/SW/25/11/30/027
Plant Status :	NON OPERATIONAL	Period of Analysis	30/11/2025 to 08/12/2025
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR, VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER (HM)
		Sample Condition:	NORMAL
Sample collected by (Name & Designation) :	VEC TEAM	Preservation :	HNO ₃
		Sample Quantity :	1 Liter
Latitude :	22°31'5.91"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.098"E		

TEST RESULT

S. No.	Parameter	Protocol/ Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	Copper (Cu)	APHA 24 TH Edn. 3111 B	BDL(DL 0.5)	mg/l	1.5
2	Manganese (as Mn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	----
3	Zinc (as Zn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	15

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Reviewed by:

Name: Krishna Kumar
Designation Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

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Contact: - +91-9955095641, +91-9546333332,
Email – visionearthjkh@gmail.com



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



TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO:	TC140752600000187F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/AQ/2026/187
		Report Release Date:	07/03/2026
		Sampling Date	26/02/2026 to 27/02/2026
Weather Condition	Clear	Sample Receipt Date:	27/02/2026
Average Temperature (°C)	24 °C	Sample Description:	Ambient Air Quality
Barometric Pressure (mmHg)	758 (mmHg)	Sample Condition	Normal
Plant Status	Operational	Period of Analysis	28/02/2026 to 05/03/2026

Sampling Location	Unit 1	Unit 2	Unit 3	Unit 4
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)	NISHCHINTPUR 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	22°31'01.81"N 86° 11'27.03"E
Sample ID	VEC/AQ/26/02/27/001	VEC/AQ/26/02/27/002	VEC/AQ/26/02/27/003	VEC/AQ/26/02/27/004
Instrument calibration status	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026

General Information

Client Representative	Bapun Panda & Site Supervisor	Surrounding activity	Vacant Land
Sample collected by	VEC Team	Scope of Monitoring	PM10, PM2.5, SO ₂ , NO ₂
Time of Monitoring	24 Hrs.	Sampling Protocol/Procedure	IS 5182 or VEC/SP/AIR/14

TEST RESULTS

Discipline	: Chemical	Group	: Atmospheric Pollution				Unit	NAAQS
			Sampling Location					
Parameter	Protocol	Unit 1	Unit 2	Unit 3	Unit 4			
1	Particulate Matter (PM10)	IS 5182: Part 23: 2006 (RA:2022)	70.7	77.6	76.5	68.2	µg/m ³	100 µg/m ³
2	Particulate Matter (PM2.5)	IS 5182: Part 24: 2019	26.2	30.4	25.3	24.1	µg/m ³	60 µg/m ³
3	Sulphur Dioxide (SO ₂)	IS 5182: Part 2:2018 (RA: 2023)	7.9	9.8	8.3	7.2	µg/m ³	80 µg/m ³
4	Oxides of Nitrogen (NO ₂)	IS 5182: Part 6:2006 (RA: 2022)	24.6	25.8	26.3	22.2	µg/m ³	80 µg/m ³

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3. Any discrepancy in test result should be reported within 15 days.
4. This analyzed parameters are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

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

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/AQ/2026/038
		Report Release Date:	07/03/2026
		Sampling Date	26/02/2026 to 27/02/2026
Weather Condition	Clear	Sample Receipt Date:	27/02/2026
Average Temperature (°C)	24 °C	Sample Description:	Ambient Air Quality (HM)
Barometric Pressure(mmHg)	758 (mmHg)	Sample Condition	Normal
Plant Status	Operational	Period of Analysis	28/02/2026 to 05/03/2026

Sampling Location	Unit 1	Unit 2	Unit 3	Unit 4
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)	NISHCHINTPUR 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	22°31'01.81"N 86° 11'27.03"E
Sample ID	VEC/AQ/26/02/27/001	VEC/AQ/26/02/27/002	VEC/AQ/26/02/27/003	VEC/AQ/26/02/27/004
Instrument calibration status	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026

General Information

Client Representative	Bapun Panda & Site Supervisor	Surrounding activity	Vacant Land
Sample collected by	VEC Team	Scope of Monitoring	H2S, CH4.
Time of Monitoring	24 Hrs.	Sampling Protocol/Procedure	IS 5182 or VEC/SP/AIR/14

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	BDL(DL 0.03)	BDL(DL0.03)	BDL(DL0.03)	BDL(DL0.03)	µg/m ³	-----
2	Methane (CH ₄)	IS:5182 (P-17) 1979 (RA2003)	BDL(DL 0.3)	BDL(DL 0.3)	BDL(DL 0.3)	BDL(DL 0.3)	ppm	-----

Note – * These above Parameter are out of sources.

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- This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO:	TC140752600000188F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/ANQ/2026/188
		Report Release Date:	07/03/2026
		Sampling Date	26/02/2026 to 27/02/2026
Weather Condition	Clear	Sample Receipt Date:	27/02/2026
Average Temperature (°C)	24 °C	Sample Description:	Ambient Air Quality
Barometric Pressure (mmHg)	758 (mmHg)	Sample Condition	Normal
Plant Status	Operational	Period of Analysis	28/02/2026 to 05/03/2026

Sampling Location	Unit 1	Unit 2	Unit 3	Unit 4
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)	NISHCHINTPUR 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	22°31'01.81"N 86° 11'27.03"E
Sample ID	VEC/ANQ/26/02/27/005	VEC/ANQ/26/02/27/006	VEC/ANQ/26/02/27/007	VEC/ANQ/26/02/27/008
Instrument calibration status	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026	22/08/2025 to 21/08/2026

General Information

Client Representative	Bapun Panda & Site Supervisor	Surrounding activity	Vacant Land
Sample collected by	VEC Team	Scope of Monitoring	Ambient Noise Level

TEST RESULTS

Discipline		: Chemical		Group		: Atmospheric Pollution							
Parameter		: Ambient Noise Level		Protocol		: IS 9989							
Sampling Location												Unit	CPCB Limit
Unit 1			Unit 2			Unit 3			Unit 4				
L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	L _{MAX} (DAY)	L _{MIN} (NIGHT)	L _{eq}	dB(A)	Day 75 dB(A) & Night 70 dB(A)
63.4	38.3	50.9	65.5	35.2	50.3	72.5	41.1	56.8	66.8	37.6	52.2		

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4. This analyzed parameters are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

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



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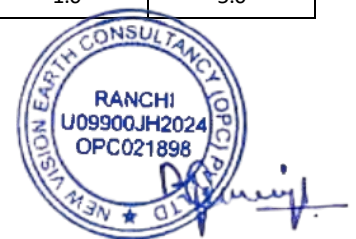
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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC140752600000189F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/189
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/009
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
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:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	5 Liter
		Preservation :	NA
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	46.3	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	112.7	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 C	BDL (DL 5.0)	Cu	5	15
4	Electrical Conductivity	IS 3025 (Part 14)	480	µS/cm	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.31	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.621	mg/l	0.3	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	8.72	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	2.1	mg/l	45	45
10	Odour	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H ⁺ B	6.832	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	29.2	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	159.3	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	308.2	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	145.6	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	BDL(DL 1.0)	NTU	1.0	5.0



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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/030
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/009
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°31'07.348"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'42.363"E		

S. No.	Parameter	Protocol/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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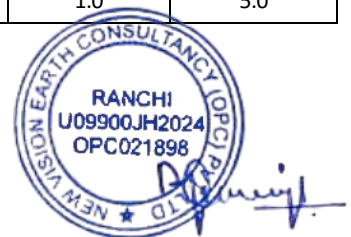
TC-14075

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC140752600000190F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/190
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/010
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
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:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	5 Liter
		Preservation :	NA
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	112.1	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	181.7	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 C	BDL (DL 5.0)	Cu	5	15
4	Electrical Conductivity	IS 3025 (Part 14)	1296	µS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.29	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.421	mg/l	0.3	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	42.6	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	3.9	mg/l	45	45
10	Odour	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	6.835	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	30.2	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	279.5	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	835.2	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	465.1	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	26.4	NTU	1.0	5.0



Page: 01/02

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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/031
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/010
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , UPARDIHA VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	GROUND WATER (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°31'43.792"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.147"E		

S. No.	Parameter	Protocol/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TC-14075

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC1407526000000191F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/191
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/011
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
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:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	5 Liter
		Preservation :	NA
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	129.6	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	138.5	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 C	BDL (DL 5.0)	Cu	5	15
4	Electrical Conductivity	IS 3025 (Part 14)	518.2	µS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.32	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.31	mg/l	0.3	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	35.2	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	8.6	mg/l	45	45
10	Odour	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	7.214	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	36.2	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	421.3	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	413.2	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	481.9	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	BDL(DL 1.0)	NTU	1.0	5.0



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TC-14075

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3. Any discrepancy in test result should be reported within 15 days.
4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



NEW VISION EARTH CONSULTANCY (OPC) PVT. LTD. (NVECPL)

Accredited By: -
Jharkhand State Pollution Control Board (JSPCB) B-2062
Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/032
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/011
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
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 (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°30'53.210"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°10'47.225"E		

S. No.	Parameter	Protocol/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



NEW VISION EARTH CONSULTANCY (OPC) PVT. LTD. (NVECPL)

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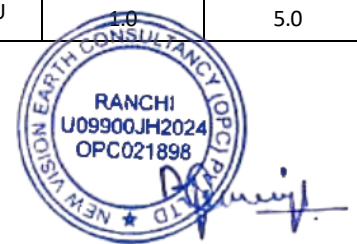
TC-14075

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC1407526000000192F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/192
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/012
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
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:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	5 Liter
		Preservation :	NA
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	42.6	mg/l	75	200
2	Chloride(as Cl)	APHA 24th Edition 4500-Cl B	113.5	mg/l	250	1000
3	Colour	APHA 24th Edition 2120 C	BDL (DL 5.0)	Cu	5	15
4	Electrical Conductivity	IS 3025 (Part 14)	468	µS/c m	--	--
5	Fluoride (as F ⁻)	APHA 24th Edition 4500-F D	0.32	mg/l	1.0	1.5
6	Free Residual Chlorine	APHA 24th Edition 4500-Cl B	BDL (DL 0.1)	mg/l	0.2	1.0
7	Iron(as Fe)	APHA 24th Edition 3500-Fe B	0.28	mg/l	0.3	--
8	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	7.78	mg/l	30	100
9	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	2.4	mg/l	45	45
10	Odour	APHA 24th Edition 2150 B	Agreeable	-	Agreeable	Agreeable
11	pH Value	APHA 24th Edition 4500-H+ B	6.753	-	6.5-8.5	6.5-8.5
12	Sulphate(as SO ₄)	APHA 24th Edition 4500-SO ₄ 2- E	30.2	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	162.3	mg/l	200	600
15	Total Dissolved Solids (TDS)	APHA 24th Edition 2540 C	314.9	mg/l	500	2000
16	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	148.6	mg/l	200	600
17	Turbidity	APHA 24th Edition 2130 B	BDL(DL 1.0)	NTU	1.0	5.0



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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/GW/2026/033
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/GW/26/02/27/012
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
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 (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°31'01.823"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'27.262"E		

S. No.	Parameter	Protocol/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	APHA 24TH Edn. 3111 B	BDL(DL 0.5)	mg/l	0.05	1.5
2	Manganese (as Mn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	0.1	0.3
3	Arsenic (as As)	APHA 24TH Edn. 3114 B	BDL(DL 0.001)	mg/l.	0.01	0.05
4	Lead (as Pb)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.01	No relaxation
5	Nickel (as Ni)	APHA 24TH Edn. 3111 B	BDL(DL 0.05)	mg/l	0.02	No relaxation
6	Zinc (as Zn)	APHA 24TH Edn. 3111 B	BDL(DL 0.01)	mg/l	5	15

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC1407526000000193F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SW/2026/193
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/SW/26/02/27/013
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HCL, H ₂ SO ₄
Latitude :	22°31'16.52"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.14"E		

TEST RESULT

5.No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296)# Class " C "
1	Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	4.2	mg/l	3.0
2	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	36.2	mg/l	--
3	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	47.3	mg/l	--
4	Chloride as Cl ⁻	APHA 24th Edition 4500-Cl B	42.3	mg/l	600
5	Colour	APHA 24th Edition 2120 C	BDL(DL 5.0)	cu	--
6	Dissolved Oxygen (DO)	APHA 24th Edition 4500-O C	5.1	mg/l	4
7	Electrical Conductivity	IS 3025 (Part 14)	529	µS/cm	--
8	Fluoride (as F)	APHA 24th Edition 4500-F D	0.31	mg/l	--
9	Iron (as Fe)	APHA 24th Edition 3500-Fe B	0.42	mg/l	50
10	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	30.2	mg/l	0.1
11	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	7.9	mg/l	--
12	pH Value	APHA 24th Edition 4500-H+ B	6.962	-	8.5
13	Potassium (as K)	APHA 24th Edition 3500-K B	9.5	mg/l	--
14	Sodium (as Na)	APHA 24th Edition 3500-Na B	20.3	mg/l	--
15	Sulphate (as SO ₄ ²⁻)	APHA 24th Edition 4500 SO ₄ ²⁻ -E	26.8	mg/l	400
16	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	158.6	mg/l	--
17	Total Dissolved Solids	APHA 24th Edition 2540 C	339.2	mg/l	--
18	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	236.2	mg/l	1500
19	Total Suspended Solid (TSS)	APHA 24th Edition 2540 D	13.6	mg/l	--
20	Turbidity	APHA 24th Edition 2130 B	1.31	NTU	--

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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

Page: 01/01

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Contact: - +91-9955095641, +91-9546333332, Email - visionearthjkh@gmail.com



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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SW/2026/034
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/SW/26/02/27/013
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°31'16.52"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.14"E		

TEST RESULT

S. No.	Parameter	Method Reference/Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Copper (Cu)	APHA 24 TH Edn. 3111 B	BDL(DL 0.5)	mg/l	1.5
2	Manganese (as Mn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	--
3	Zinc (as Zn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	15

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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



TC-14075

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC1407526000000194F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SW/2026/194
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/SW/26/02/27/014
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HCL, H ₂ SO ₄
Latitude :	22°31'16.52"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'54.14"E		

TEST RESULT

5.No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296)# Class " C "
1	Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	3.2	mg/l	3.0
2	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	56.2	mg/l	--
3	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	35.2	mg/l	--
4	Chloride as Cl ⁻	APHA 24th Edition 4500-Cl B	53.4	mg/l	600
5	Colour	APHA 24th Edition 2120 C	BDL(DL 5.0)	cu	--
6	Dissolved Oxygen (DO)	APHA 24th Edition 4500-O C	5.3	mg/l	4
7	Electrical Conductivity	IS 3025 (Part 14)	435	µS/cm	--
8	Fluoride (as F)	APHA 24th Edition 4500-F D	0.76	mg/l	--
9	Iron (as Fe)	APHA 24th Edition 3500-Fe B	0.175	mg/l	50
10	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	31.1	mg/l	0.1
11	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	4.1	mg/l	--
12	pH Value	APHA 24th Edition 4500-H+ B	7.214	-	8.5
13	Potassium (as K)	APHA 24th Edition 3500-K B	10.2	mg/l	--
14	Sodium (as Na)	APHA 24th Edition 3500-Na B	20.6	mg/l	--
15	Sulphate (as SO ₄ ²⁻)	APHA 24th Edition 4500 SO ₄ ²⁻ -E	13.2	mg/l	400
16	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	264.1	mg/l	--
17	Total Dissolved Solids	APHA 24th Edition 2540 C	502.6	mg/l	--
18	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	262.2	mg/l	1500
19	Total Suspended Solid (TSS)	APHA 24th Edition 2540 D	13.2	mg/l	--
20	Turbidity	APHA 24th Edition 2130 B	BDL(DL 1.0)	NTU	--

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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

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Contact: - +91-9955095641, +91-9546333332, Email - visionearthjhk@gmail.com



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TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SW/2026/035
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/SW/26/02/27/014
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°30'42.08"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.20"E		

TEST RESULT

S. No.	Parameter	Method Reference/Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Copper (Cu)	APHA 24 TH Edn. 3111 B	BDL(DL 0.5)	mg/l	1.5
2	Manganese (as Mn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	--
3	Zinc (as Zn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	15

Note : These above parameters are out of sources.

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4. This analyzed parameters are found within the limit.

Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

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



NEW VISION EARTH CONSULTANCY (OPC) PVT. LTD. (NVECPL)

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



TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008	ULR NO :	TC1407526000000195F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SW/2026/195
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/SW/26/02/27/015
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR VILLAGE.	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HCL, H ₂ SO ₄
Latitude :	22°31'5.91"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.09"E		

TEST RESULT

5.No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296)# Class " C "
1	Biological Oxygen Demand (BOD)	IS 3025 (Part 44)	2.3	mg/l	3.0
2	Calcium (as Ca)	APHA 24th Edition 3500-Ca B	42.82	mg/l	--
3	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	25.4	mg/l	--
4	Chloride as Cl ⁻	APHA 24th Edition 4500-Cl B	60.1	mg/l	600
5	Colour	APHA 24th Edition 2120 C	BDL(DL 5.0)	cu	--
6	Dissolved Oxygen (DO)	APHA 24th Edition 4500-O C	4.2	mg/l	4
7	Electrical Conductivity	IS 3025 (Part 14)	432	µS/cm	--
8	Fluoride (as F)	APHA 24th Edition 4500-F D	0.54	mg/l	--
9	Iron (as Fe)	APHA 24th Edition 3500-Fe B	0.211	mg/l	50
10	Magnesium (as Mg)	APHA 24th Edition 3500-Mg B	32.2	mg/l	0.1
11	Nitrate (as NO ₃)	APHA 24th Edition 4500-NO ₃ B	4.2	mg/l	--
12	pH Value	APHA 24th Edition 4500-H+ B	7.011	-	8.5
13	Potassium (as K)	APHA 24th Edition 3500-K B	13.2	mg/l	--
14	Sodium (as Na)	APHA 24th Edition 3500-Na B	20.4	mg/l	--
15	Sulphate (as SO ₄ ²⁻)	APHA 24th Edition 4500 SO ₄ ²⁻ -E	7.3	mg/l	400
16	Total Alkalinity (as CaCO ₃)	APHA 24th Edition 2320 B	223.1	mg/l	--
17	Total Dissolved Solids	APHA 24th Edition 2540 C	419.8	mg/l	--
18	Total Hardness (as CaCO ₃)	APHA 24th Edition 2340 C	249.3	mg/l	1500
19	Total Suspended Solid (TSS)	APHA 24th Edition 2540 D	6.5	mg/l	--
20	Turbidity	APHA 24th Edition 2130 B	BDL(DL 1.0)	NTU	--

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Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

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

Page: 01/01

An expertise consultancy house for Geology, Mining, Environment & Forest,
DGPS Survey, GIS, Ground Water Studies & Environmental Laboratories
Reg. Off. -H. No. 192/C, Pl.No.354/15, Vidhyalaya Marg, Ashok Nagar, Ranchi- 834002, Jharkhand.
Contact: - +91-9955095641, +91-9546333332, Email - visionearthjhk@gmail.com



NEW VISION EARTH CONSULTANCY (OPC) PVT. LTD. (NVECPL)

Accredited By: -
Jharkhand State Pollution Control Board (JSPCB) B-2062
Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015

TEST REPORT

Client Reference No:	VEC/WO/26/02/26/008		
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA, DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SW/2026/036
		Report Release Date :	07/03/2026
		Sampling Date :	26/02/2026
		Sample Receipt Date :	27/02/2026
		Sample ID:	VEC/SW/26/02/27/015
Plant Status :	OPERATIONAL	Period of Analysis	28/02/2026 to 05/03/2026
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR, VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	BAPUN PANDA & SITE SUPERVISOR	Sample Description:	SURFACE WATER (HM)
		Sample Condition:	NORMAL
Sample collected by	VEC TEAM	Sample Quantity :	6.5 Liter
		Preservation :	HNO3
Latitude :	22°31'5.91"N	Sampling Protocol/Procedure	VEC/WATER/SP/13
Longitude :	86°11'18.09"E		

TEST RESULT

S. No.	Parameter	Method Reference/Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Copper (Cu)	APHA 24 TH Edn. 3111 B	BDL(DL 0.5)	mg/l	1.5
2	Manganese (as Mn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	--
3	Zinc (as Zn)	APHA 24 TH Edn. 3111 B	BDL(DL 0.01)	mg/l	15

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



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

TEST REPORT (SOIL)

Client Reference No.:	VEC/WO/25/11/26/002	ULR NO:	TC140752500000362F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/2025/362
		Report Release Date:	08/12/2025
		Sampling Date :	29/11/2025
Sample Description:	SANDY LOAM, YELLOWISH	Sample Receipt Date:	30/11/2025
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM)	Sample ID:	VEC/SQ/25/11/30/029
		Period of Analysis:	30/11/2025 to 08/12/2025
Client Representative (Name & Designation):	BAPUN PANDA & SITE SUPERVISOR	Sampling Protocol/Procedure :	VEC/SOIL/SP/16
Sample Collected by (Name & Designation):	VEC 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)	6.615	----
2	Electrical Conductivity	IS 14767	108	µs/cm
3	Organic Matter	IS 2720 (Part 22)	0.8	%
4	Bulk Density	IS 2720 (Part 28)	1.17	g/cm ³
5	Water Holding Capacity	IS 14765	34.7	%
6	Available Potassium	IS 9497	76.4	Mg/kg
7	Available Nitrogen	IS 14684	157.2	Mg/kg

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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



NEW VISION EARTH CONSULTANCY (OPC) PVT. LTD. (NVECPL)

Accredited By: -

Jharkhand State Pollution Control Board (JSPCB) B-2062

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

TEST REPORT (SOIL)

Client Reference No.:	VEC/WO/25/11/26/002		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	VEC/RNC/SQ/2025/071
		Report Release Date:	08/12/2025
		Sampling Date :	29/11/2025
Sample Description:	SANDY LOAM, YELLOWISH (GEN. & HM)	Sample Receipt Date:	30/11/2025
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM)	Sample ID:	VEC/SQ/25/11/30/029
		Period of Analysis:	30/11/2025 to 08/12/2025
Client Representative (Name & Designation):	BAPUN PANDA & SITE SUPERVISOR	Sampling Procedure :	VEC/SOIL/SP/16
Sample Collected by (Name & Designation):	VEC 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/Procedure	Result	Unit
1	Organic carbon (%)	walkely & black, soil Testing in India	0.49	%
2	Available P	Olsens method, Soil Testing in India	6.2	mg/kg
3	*Fe	USEPA 3050 A& B	3.86	mg/kg
4	*Cu	USEPA 3050 A& B	0.62	mg/kg
5	*Zn	USEPA 3050 A& B	0.84	mg/kg
6	*Mn	USEPA 3050 A& B	6.8	mg/kg

Note:-*These above star mark parameter are out sources.

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Reviewed by:

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

Page: 01/01



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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.:	VEC/WO/26/02/26/008	ULR NO:	TC1407526000000196F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SQ/2026/196
		Report Release Date:	07/03/2026
		Sampling Date :	26/03/2026
Sample Description:	SOIL (SLIGHT BROWN)	Sample Receipt Date:	27/03/2026
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM)	Sample ID:	VEC/SQ/26/02/27/016
		Period of Analysis:	28/02/2026 to 05/03/2026
Client Representative (Name & Designation):	BAPUN PANDA & SITE SUPERVISOR	Sampling Protocol/Procedure :	VEC/SOIL/SP/16
Sample Collected by (Name & Designation):	VEC 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)	6.642	----
2	Electrical Conductivity	IS 14767	112	µs/cm
3	Organic Matter	IS 2720 (Part 22)	0.9	%
4	Bulk Density	IS 2720 (Part 28)	1.15	µs/cm
5	Water Holding Capacity	IS 14765	33.6	%
6	Available Potassium	IS 9497	77.8	Mg/kg
7	Available Nitrogen	IS 14684	158.3	Mg/kg

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Reviewed by:

Krishna Kumar

Name: Krishna Kumar
Designation: Technical Manager



Authorized Signatory:

Ajay Kumar Singh

Name: Ajay Kumar Singh
Designation: CEO

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

Page: 01/01



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Jharkhand State Pollution Control Board (JSPCB) B-2062
Certified By: - ISO 14001: 2015, ISO 45001: 2018, ISO 9001:2015

TEST REPORT (SOIL)

Client Reference No.:	VEC/WO/26/02/26/008		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND.	Report No.:	VEC/RNC/SQ/2026/037
		Report Release Date:	07/03/2026
		Sampling Date :	26/03/2026
Sample Description:	SANDY LOAM, YELLOWISH (GEN. & HM)	Sample Receipt Date:	27/03/2026
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM)	Sample ID:	VEC/SQ/26/02/27/016
		Period of Analysis:	28/02/2026 to 05/03/2026
Client Representative (Name & Designation):	BAPUN PANDA & SITE SUPERVISOR	Sampling Protocol/Procedure :	VEC/SOIL/SP/16
Sample Collected by (Name & Designation):	VEC 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/Procedure	Result	Unit
1	Organic carbon (%)	walkely & black, soil Testing in India	0.49	%
2	Available P	Olsens method, Soil Testing in India	6.2	mg/kg
3	*Fe	USEPA 3050 A& B	3.86	mg/kg
4	*Cu	USEPA 3050 A& B	0.62	mg/kg
5	*Zn	USEPA 3050 A& B	0.84	mg/kg
6	*Mn	USEPA 3050 A& B	6.8	mg/kg

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Designation: Technical Manager



Authorized Signatory:

Name: Ajay Kumar Singh
Designation: CEO

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

Page: 01/01

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 कालोमांजर 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 ठोस 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

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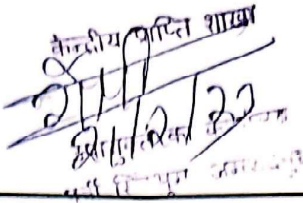


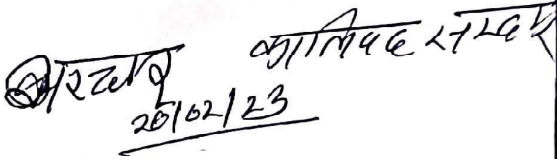
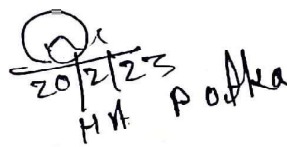

NOTICE

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_x
 During 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	GNOC	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>

