



Ref: PH/587/2024

Date: 28 November 2024

**Deputy Director General of Forests (C)**

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

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

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

Dear Sir/ Ma'am,

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

Thanking you

Yours Faithfully  
**For Tata Steel UISL**

**Manoj Singh Shekhawat**  
**Chief Divisional Manager - Health & Hygiene Services (Tata Steel UISL)**

Encl: As above

Copy to:

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

**TATA STEEL LIMITED**

Environment Management Jamshedpur 831 001 India  
Registered Office: Bombay House, 24 Homi Mody Street, Mumbai 400001  
Tel 91 22 66658282 Fax 91 22 66657724

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

<b>Proposal No</b>	IA/JH/INFRA2/410593/2022
<b>Compliance ID</b>	112557444
<b>Compliance Number(For Tracking)</b>	EC/COMPLIANCE/112557444/2024
<b>Reporting Year</b>	2024
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)
<b>Submission Date</b>	29-11-2024
<b>RO/SRO Name</b>	ARTATRANA MISHRA
<b>RO/SRO Email</b>	jhk109@ifs.nic.in
<b>State</b>	JHARKHAND
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Ranchi

**Note:-** SMS and E-Mail has been sent to ARTATRANA MISHRA, 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 letter no: IA/JH/INFRA2/410593/2022 dated 13/02/2023**

<b>S N</b>	<b>Condition</b>	<b>Compliance Status</b>
<b>A.</b>	<b>Specific Condition</b>	
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. Consent to operate would be obtained after completion of establishment.
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 <sub>2</sub> , NO <sub>x</sub> 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 process will be involved which may emit the gaseous emissions.
iii.	No tree Can be felled/transplanted unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concern Authority. Old trees should be retained based on girth and age regulations as may be prescribed by the forest Department. Where the tree needs to be cut/transplanted with prior permission from the concerned local Authority, compensatory plantation in the ration of 1:10 (i.e., planting of 10 trees for every one tree that is cut/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 has been started and greenbelt will be developed as per commitment.
v.	Project Proponent shall implement rain rainwater harvesting from rooftop paved area and landscaping areas as committed.	Rainwater harvesting will be developed during construction period.
vi.	Project Proponent shall use LED Lamps and Solar panel as energy saving conservation in the project area.	Energy saving measures will be adopted during construction & operation stages.
vii.	The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive should not be used for landscaping.	Plantation has been started and greenbelt will be developed with native species as per commitment.
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 after proper treatment for low end usages like floor cleaning, maintaining green belt, vehicle washing, industrial operations etc. Details of Leachate collection and treatment system is attached as

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S N	Condition	Compliance Status
A.	Specific Condition	
		<b>Annexure-1</b> 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 after commissioning of the project. GW NOC Received from CGWA: CGWA/NOC/IND/ORIG/2024/19917 Dated:16.02.2024.
xi.	Treated wastewater of 20 KLD shall be recycle within the premises as committed.	Treated wastewater will be recycle within the premises when the operation will be started.
xii.	No Fresh water to be used except for potable use.	We will abide by the condition.
xiii.	Six number of Piezometer wells shall be installed in and around the project site to monitor the GW quality in consultation with SPCB or State Pollution Control Committee/CPCB. Trend analysis of ground water quality shall be carried out each season and information shall be submitted to the SPCB and the regional Office of MoEF&CC.	Piezometer procurement is in progress. Ground water quality report is attached as <b>Annexure-2</b> .
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 <b>Annexure-2</b> . Piezometer procurement is in progress.
xv.	Ambient air quality monitoring shall be carried out in and around the landfill site at up wind and downwind locations.	Ambient air quality monitoring is being done and reports are attached as <b>Annexure-3</b> .
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 will be decided to avoid contamination of the ground water.
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. Groundwater and soil monitoring to check the contamination will be done after commissioning of project.
xviii.	The Company shall ensure proper handling of spillages by introducing spill control procedures for various chemicals.	Spillage control measures will be taken at every stage.
xix.	Online real time continuous monitoring facilities shall be provided as per CPCB or State Board Directions.	Online continuous Ambient Air quality monitoring station will be installed as per CPCB or State Board Direction.
xx.	Scrubber water, Leachate water or wheel wash shall be treated properly and recycled to achieve zero liquid discharge.	We will abide by the condition when the project will be operational.
xxi.	Gas generated in the Landfill should be properly collected, monitored and flared.	Gas generation is not expected as inert materials are being disposed in landfill.
xxii.	Pre-medical check up to carried out on workers at the time of employment and regular medical record to be maintained.	Premedical checkup is carried out at the time of employment and at the time of gate pass renewal. The same system would be followed project work when plant will come in operation.
xxiii.	Emergency plan shall be drawn in consultation with SPCB/CPCB and implemented in order to minimize the hazards to human health or environment from fires,	Draft Emergency plan prepared, as the said facility is under project stage. Final plan will be prepared and

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

<b>S N</b>	<b>Compliance Condition</b>	<b>Compliance Status</b>
<b>B</b>	<b>Standard Condition</b>	
<b>I.</b>	<b>Statutory compliance</b>	
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 because there is no presence of schedule 1 species.
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 because there is no presence of schedule 1 species.
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.
<b>II</b>	<b>Air Quality Monitoring and Preservation</b>	
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	Not applicable because no stack is envisaged as it is a landfill site for inert materials generated from municipal solid waste management.

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<b>S N</b>	<b>Compliance Condition</b>	<b>Compliance Status</b>
<b>B</b>	<b>Standard Condition</b>	
	or NABL accredited laboratories. (For projects involving incineration) to equipment supplier specification through labs recognised under environment (PROTECTION) act,1986 or NABL accredited laboratories. (For projects involving incineration)	
ii	As proposed, air pollution control device viz. gas quencher; treatment with mixture of hydrated lime and activated powder adsorption of partial acidity and VOCS (if any); bag filter/ESP for removal of particulate matter; venturi scrubber followed by packed bed scrubber with caustic circulation to neutralize the acidic vapours in flue gas; and demister column for arresting water carry over will be provided to the incinerator. Online pollutant monitoring shall be provided as per CPCB guidelines for monitoring particulate matter, SO <sub>2</sub> , NO <sub>x</sub> and CO from the incinerator stack. the periodical monitoring of dioxins and furans in the stack emission shall be carried out.	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.
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 <sub>10</sub> and PM <sub>2.5</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> 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 will be done as per plan.
<b>III.</b>	<b>Water Quality Monitoring and Preservation</b>	
i.	The project proponent shall install continues effluent monitoring system with respect to standard prescribed in environment (protection) rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under environment (protection) act,1986 or NABL accredited laboratories.	ETP along with ZED system is proposed.
ii	Sufficient number of piezometer wells shall be installed in and around the project site to monitor the ground water quality in consultation with state pollution control board /CPCB.TREND analysis of ground water quality shall be carried out each season and information shall be submitted to SPCB and the regional office of MoEF&CC	Piezometer procurement is in progress. Monitoring proposed as per plan and trend analysis will be carried out.

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<b>B</b>	<b>Standard Condition</b>	
iii	The depth of the land fill site shall be decided based on the ground water table at the site.	Depth of landfill site is designed as per ground water level.
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.	As per proposal requirement GW NOC Received from CGWA: CGWA/NOC/ IND/ORIG/2024/19917 Dated: 16.02.2024.
vi	The company shall ensure proper handling of all spillages by introducing spill control procedures for various chemicals.	Spillage control measures will be taken at every stage after commissioning of the project.
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 will abide by the condition after commissioning of the project.
x	A certificate from the component authority for discharging treated effluent/untreated effluent into the public sewer/disposal/drainage systems along with the final disposal point should be obtained.	Zero Effluent Discharge is Proposed.
<b>IV</b>	<b>Waste management</b>	
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 we certify that the existing civic capacities of handling and their adequacy to cater to the MSW generated from project.
<b>V</b>	<b>Transportation</b>	
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	Proposed boundary wall, necessary Entry, Exit, internal roads sign boards, illumination, and deployment of required Security.
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	Route map proposed and will Implement the same. Will be operated

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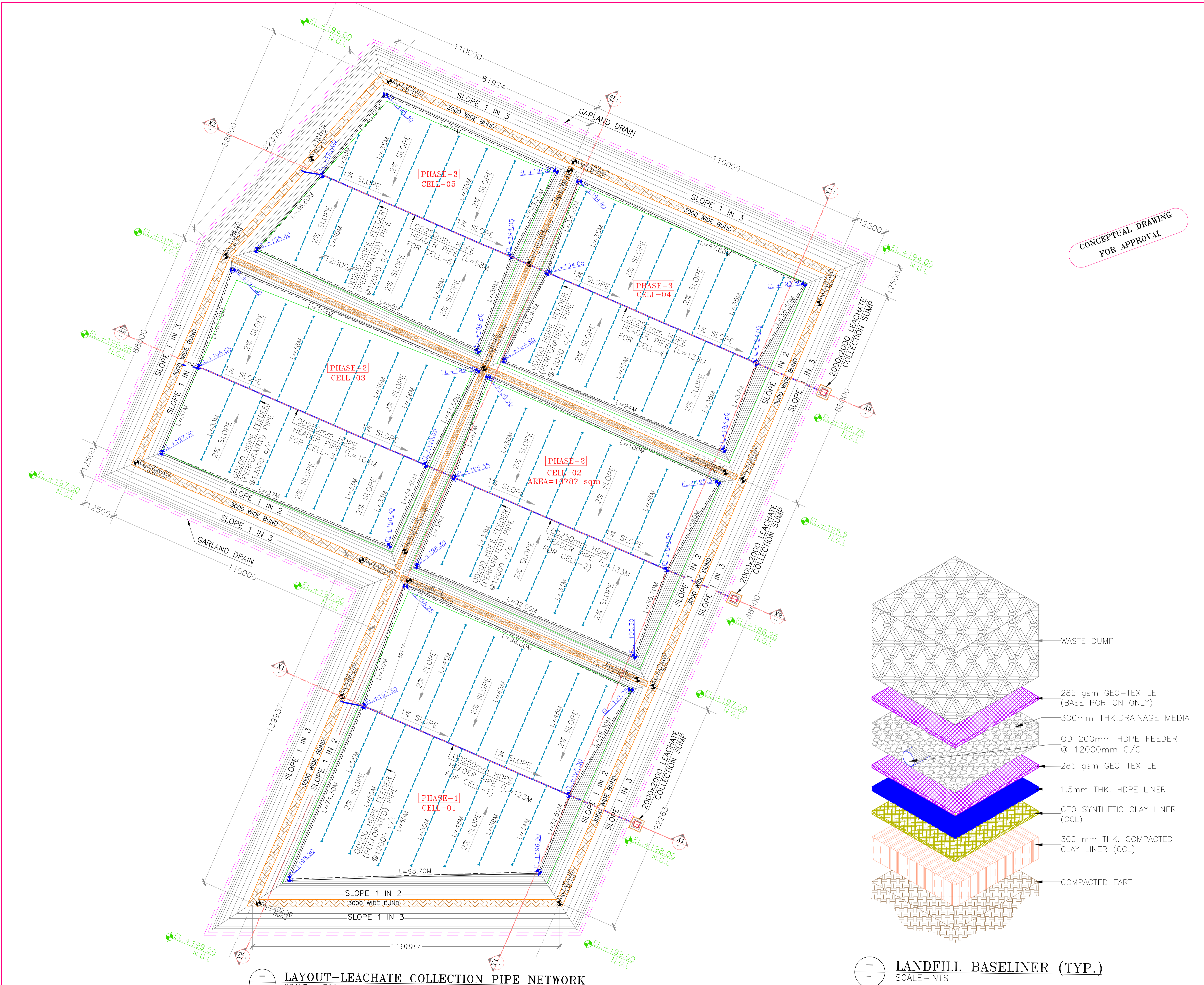
<b>S N</b>	<b>Compliance Condition</b>	<b>Compliance Status</b>
<b>B</b>	<b>Standard Condition</b>	
	project is maintained and improved upon after the implementation of the project .This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 02kms radius of the site in different scenarios of the space and time and the traffic management plan shall be duly validate and certified by the state urban development department and the P.W.D/ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments .	by authorized person only after the implementation of the project
<b>VI</b>	<b>Green Belt</b>	
i	Green belt shall be developed an area as provided in project details, with native tree species in accordance with forest department. the greenbelt shall inter alia cover the periphery of the project site.	Plantation has been started and greenbelt will be developed as per commitment.
ii	Topsoil shall be separately stored and used in the development of green belt.	Proposed, the same will be developed as per condition
<b>VII</b>	<b>Public Hearing and Human health/safety issues</b>	
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.
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 will abide by the condition.
iii	Occupational health surveillance of the workers shall be done on regular basis.	We will abide by the condition.
<b>IX</b>	<b>Miscellaneous</b>	
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 <b>Annexure-4</b> .
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 <b>Annexure-5</b> .
iii	The copies of the environmental clearance shall be submitted by the project proponents to the Head of local bodies, Panchayats and Municipal Bodies in addition to the relevant of the Government who in turn has to display the same for 30 days from the date of receipt.	Environmental Clearance report Submitted to local bodies and acknowledgment attached as <b>Annexure-5</b> .
iv	The project proponent shall upload the status of compliance of the stipulated environment clearance	Half yearly EC Compliance report submitted for FY24 H2 via letter no: TSJ/EMD/C-10/17/24 dated 29 May

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S N	Compliance Condition	Compliance Status
<b>B</b>	<b>Standard Condition</b>	
	condition, including results of monitored data on their website and update the same on half-yearly basis.	2024. The same is being displayed on our website. <a href="https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/">https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/</a> .
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.
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.	Already mentioned in EMP/EIA report.
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 is attached as <b>Annexure -7</b> .
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 FY24H2 via letter no: TSJ/EMD/C-10/17/24 dated 29 May 2024.
x	The project proponent shall submit the environmental statement for each financial year in Form -V to the concerned State Pollution Control Board as prescribed under the environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Facility is still under project stage. After completion of project and grant of CTO, yearly environmental statement will be submitted.
xi	The criteria pollutant levels namely, PM2.5, PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project 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 also that during their presentation to the Expert Appraisal committee.
xv	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate change (MoEF&CC).	We will abide by the condition.
xvi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.	Agreed and noted
xvii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed and noted
xviii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed and noted
xix	The Regional office of this Ministry shall monitor compliance of the stipulated condition. The project authorities should extend full corporation to officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Agreed and noted
xx	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & control of pollution) Act, 1974, the Air (Prevention & Control of pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India /High Courts and any other Court of Law relating to the subject matter.	Agreed and noted
xxi	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Not Required



KEY PLAN:

NOTES:

SYMBOLS / ABBREVIATIONS :

CONCEPTUAL DRAWING FOR APPROVAL

LANDFILL BASELINER (TYP.)  
SCALE - NTS

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.

1.  $\phi$  : 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

WASTE DUMP

285 gsm GEO-TEXTILE (BASE PORTION ONLY)

300mm THK.DRAINAGE MEDIA

OD 200mm HDPE FEEDER @ 12000mm C/C

285 gsm GEO-TEXTILE

1.5mm THK. HDPE LINER

GEO SYNTHETIC CLAY LINER (GCL)

300 mm THK. COMPACTED CLAY LINER (CCL)

COMPACTED EARTH

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

REV.	DATE	DESCRIPTION	CHD BY



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National Accreditation Board of Laboratories & Calibration TC- 14075

Jharkhand State Pollution Control Board (JSPCB) B-2062

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



TC-14075

## TEST REPORT (AMBIENT AIR)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO:	TC1407524000000111F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/114
		Report Release Date :	24/09/2024
		Sampling Date	16/09/2024 to 17/09/2024
Weather Condition	Clear	Sample Receipt Date :	17/09/2024
Average Temperature (°C)	29 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	759 (mmHg)	Sample Condition	Sealed and Preserved
Plan Status	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024

Sampling Location	Unit 1	Unit 2	Unit 3
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)
Sample ID	NVEC/AQ/24/09/17/001	NVEC/AQ/24/09/17/002	NVEC/AQ/24/09/17/003
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/001 (RDS), VEC/Field/007 (FPS)	VEC/Field/002 (RDS), VEC/Field/008 (FPS)	VEC/Field/003 (RDS), VEC/Field/009 (FPS)
Instrument calibration status	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025
Sampling Location	Unit 4		
	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Sample ID	NVEC/AQ/24/09/17/004		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/022 (RDS), VEC/Field/023 (FPS)		
Instrument calibration status	22/08/2024 to 21/08/2025		



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



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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

## General Information

Client Representative (Name & Designation) : Ravi Tadela  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring (Average) : 09:40 AM  
Actual duration of Monitoring, (minutes) : 1445 (Minutes)  
Surrounding activity : Vacant Land  
Scope of Monitoring : PM10, PM2.5, SO<sub>2</sub>, NO<sub>2</sub>,  
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)	67.8	62.8	64.9	68.1	µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
2	Particulate Matter (PM2.5)	IS 5182 : Part 24 : 2019	26.2	25.8	28.2	24.6	µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
3	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182:Part 2:2018 (RA:2023 )	BDL<6.0	BDL<6.0	BDL<6.0	BDL<6.0	µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS 5182:Part 6:2006 (RA:2022 )	12.7	14.2	11.3	11.9	µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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## TEST REPORT (AMBIENT AIR)

Client Reference No:	NVEC/RNC/24-25/009		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/115
		Report Release Date :	24/09/2024
		Sampling Date	16/09/2024 to 17/09/2024
Weather Condition	Clear	Sample Receipt Date :	17/09/2024
Average Temperature (°C)	29 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	759 (mmHg)	Sample Condition	Sealed and Preserved
Plan Status	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024

Sampling Location	Unit 1	Unit 2	Unit 3
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)
Sample ID	NVEC/AQ/24/09/17/001	NVEC/AQ/24/09/17/002	NVEC/AQ/24/09/17/003
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/001 (RDS), VEC/Field/007 (FPS)	VEC/Field/002 (RDS), VEC/Field/008 (FPS)	VEC/Field/003 (RDS), VEC/Field/009 (FPS)
Instrument calibration status	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025
Sampling Location	Unit 4		
	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Sample ID	NVEC/AQ/24/09/17/004		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/022 (RDS), VEC/Field/023 (FPS)		
Instrument calibration status	22/08/2024 to 21/08/2025		



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

## General Information

Client Representative (Name & Designation) : Ravi Tadela  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring (Average) : 09:40 AM  
Actual duration of Monitoring, (minutes) : 1445 (Minutes)  
Surrounding activity : Vacant Land  
Scope of Monitoring : PM10, PM2.5, SO<sub>2</sub>, NO<sub>2</sub>,  
Control measure if Any : No  
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 <sub>2</sub> S)	VEC/SP/AIR/14	>04	>04	>04	>04	µg/m <sup>3</sup>	-----
2	Methane (CH <sub>4</sub> )	VEC/SP/AIR/14	<0.1	<0.1	<0.1	<0.1	ppm	-----

Note – \*These above Parameter are out of sources.

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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



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Jharkhand State Pollution Control Board (JSPCB) B-2062

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



TC-14075

## TEST REPORT (AMBIENT NOISE)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO:	TC1407524000000112F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/116
		Report Release Date :	24/09/2024
		Sampling Date	16/09/2024 to 17/09/2024
Weather Condition	Clear	Sample Receipt Date :	17/09/2024
Average Temperature (°C)	29 °C	Sample Description:	Ambient Noise
Barometric Pressure(mmHg)	759 (mmHg)	Period of Analysis	17/09/2024 to 23/ 09/2024
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)
Sample ID	NVEC/ANQ/24/09/17/005	NVEC/ANQ/24/09/17/006	NVEC/ANQ/24/09/17/007
Instrument Used	SOUND LEVEL METER	SOUND LEVEL METER	SOUND LEVEL METER
Instrument code	VEC/Field/018	VEC/Field/019	VEC/Field/020
Instrument calibration status	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025
	Unit 4		
Sampling Location	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Sample ID	NVEC/ANQ/24/09/17/008		
Instrument Used	SOUND LEVEL METER		
Instrument code	VEC/Field/021		
Instrument calibration status	22/08/2024 to 21/08/2025		



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



TC-14075

## General Information

Client Representative (Name & Designation) : Ravi Tadela  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring : 09:50 AM  
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 <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	L <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	L <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	L <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	dB(A)	Day 75 dB(A) & Night 70 dB(A)
50.5	39.2	52.8	55.9	38.7	56.8	56.5	40.1	59.2	59.1	35.7	53.8		

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh

Designation: CEO

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

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TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000113F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/117
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/009
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.823	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	321	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	83	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	178.2	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	151.6	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	123.8	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	35.2	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	9.2	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	14.1	mg/l	250	1000
14	Fluoride (as F)	APHA(24th edition) :4500F-D:2023	0.72	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	9.7	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	1.7	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.9	mg/l	0.03	--

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



TC-14075

## TEST REPORT

### (WATER)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000114F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/118
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/010
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, UPAARDIHA VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.518	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	1429	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	45	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	943.8	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	337.1	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	543.8	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	132	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	72.6	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	187	mg/l	250	1000
14	Fluoride (as F)	APHA(24th edition) :4500F-D:2023	0.47	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	34.8	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	2.8	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.43	mg/l	0.03	--

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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

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

Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



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TC-14075

## TEST REPORT (WATER)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000115F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/119
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/011
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, KUALI, VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.657	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	1198	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	<2	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	778.7	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	246.8	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	429	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	122.4	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	39.2	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	118.6	mg/l	250	1000
14	Fluoride (as F)	APHA(24th edition) :4500F-D:2023	0.47	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	42.8	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	8.8	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.11	mg/l	0.03	--

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



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## TEST REPORT (WATER)

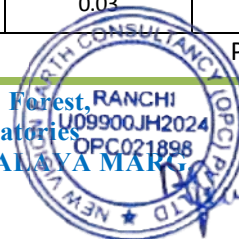
Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000116F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/120
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/012
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, NISHCHINTPUR, VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.508	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	559	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	41	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	363.3	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	156.2	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	121.2	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	36.5	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	11.8	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	46.9	mg/l	250	1000
14	Fluoride (as F <sup>-</sup> )	APHA(24th edition) :4500F-D:2023	0.47	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	25.4	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	1.3	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.82	mg/l	0.03	--

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/121
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/009
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.02	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.04	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.01	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.02	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.52	mg/l	5	15

Note- \* These above parameter are out of Sources.

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/122
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/010
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , UPARDIHA VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.063	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.04	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.01	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.51	mg/l	5	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



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

Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT (WATER)

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/123
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/011
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , KUALI VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.05	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.007	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.01	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.36	mg/l	5	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



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

Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT (WATER)

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/124
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/012
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , NISHCHINTPUR, VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.03	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.005	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.02	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.42	mg/l	5	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000117F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/125
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/013
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

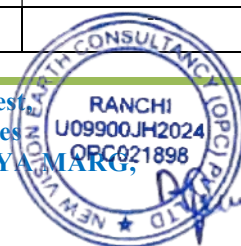
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	pH Value	APHA (24th edition) 4500-H+ :2023	7.681	-	6.5-8.5
2	Electrical Conductivity	IS: 3025(Part 14) : 2013(RA2023)	528	μS/cm	--
3	Total Dissolved Solids	APHA (24th edition) 2540 C :2023	327.4	mg/l	1500
4	Dissolved Oxygen (DO)	APHA 24th.2023:4500 O-C :2023	6.5	mg/l	4.0
5	Chloride as Cl <sup>-</sup>	APHA (24th edition) 4500-Cl- B :2023	16.2	mg/l	600
6	Biological Oxygen Demand (BOD)	IS 3025 (Part-44):1993; RA2014	2.8	mg/l	3.0
7	Chemical Oxygen Demand (COD)	IS 3025 (Part-58):2006; RA2017	32	mg/l	--
8	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	<0.1	mg/l	50
9	Sulphate (as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023	19.6	mg/l	400
10	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	300
11	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	195	mg/l	--
12	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	212		--
13	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	28.2	mg/l	--
14	Magnesium as Mg	APHA(24th edition) 3500-Mg-B:2023	28.2	mg/l	--
15	Fluoride (as F <sup>-</sup> )	APHA(24th edition) 4500F-D:2023	0.68	mg/l	1.5
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	6.9	mg/l	50
17	Total Suspended Solid (TSS)	APHA (24th edition) 2540 D :2023	12.9	mg/l	

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Email - visionearthjhk@gmail.com





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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

18	Turbidity	APHA 24 TH EDITION 2130 B	7.9	NTU	--
19	Sodium (as Na)	APHA 24 TH EDITION 3500 Na B	26.4	mg/l	--
20	Potassium (as K)	APHA 24 TH EDITION 3500 K B	10.9	mg/l	--

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Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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



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



TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000118F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/126
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/014
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

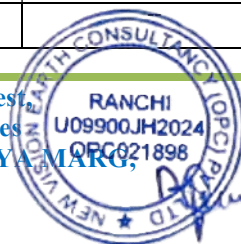
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	pH Value	APHA (24th edition) 4500-H+ :2023	7.703	-	6.5-8.5
2	Electrical Conductivity	IS: 3025(Part 14) : 2013(RA2023)	823	μS/cm	--
3	Total Dissolved Solids	APHA (24th edition) 2540 C :2023	534.9	mg/l	1500
4	Dissolved Oxygen (DO)	APHA 24th.2023:4500 O-C :2023	4.2	mg/l	4.0
5	Chloride as Cl <sup>-</sup>	APHA (24th edition) 4500-Cl- B :2023	35.7	mg/l	600
6	Biological Oxygen Demand (BOD)	IS 3025 (Part-44):1993; RA2014	2.7	mg/l	3.0
7	Chemical Oxygen Demand (COD)	IS 3025 (Part-58):2006; RA2017	33	mg/l	--
8	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	<0.1	mg/l	50
9	Sulphate (as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023	10.9	mg/l	400
10	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	300
11	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	293	mg/l	--
12	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	263		--
13	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	57.2	mg/l	--
14	Magnesium as Mg	APHA(24th edition) 3500-Mg-B:2023	32.4	mg/l	--
15	Fluoride (as F <sup>-</sup> )	APHA(24th edition) 4500F-D:2023	0.92	mg/l	1.5
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	2.9	mg/l	50
17	Total Suspended Solid (TSS)	APHA (24th edition) 2540 D :2023	17.2	mg/l	

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TC-14075

18	Turbidity	APHA 24 TH EDITION 2130 B	11	NTU	--
19	Sodium (as Na)	APHA 24 TH EDITION 3500 Na B	29.3	mg/l	--
20	Potassium (as K)	APHA 24 TH EDITION 3500 K B	13.2	mg/l	--

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Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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



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TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000119F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/127
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/015
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

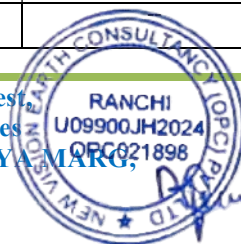
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	pH Value	APHA (24th edition) 4500-H+ :2023	7.932	-	6.5-8.5
2	Electrical Conductivity	IS: 3025(Part 14) : 2013(RA2023)	692	μS/cm	--
3	Total Dissolved Solids	APHA (24th edition) 2540 C :2023	449.8	mg/l	1500
4	Dissolved Oxygen (DO)	APHA 24th.2023:4500 O-C :2023	5.5	mg/l	4.0
5	Chloride as Cl <sup>-</sup>	APHA (24th edition) 4500-Cl- B :2023	50.9	mg/l	600
6	Biological Oxygen Demand (BOD)	IS 3025 (Part-44):1993; RA2014	2.9	mg/l	3.0
7	Chemical Oxygen Demand (COD)	IS 3025 (Part-58):2006; RA2017	40	mg/l	--
8	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	<0.1	mg/l	50
9	Sulphate (as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023	4.2	mg/l	400
10	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	300
11	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	255	mg/l	--
12	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	211.8		--
13	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	33.2	mg/l	--
14	Magnesium as Mg	APHA(24th edition) 3500-Mg-B:2023	16.3	mg/l	--
15	Fluoride (as F <sup>-</sup> )	APHA(24th edition) 4500F-D:2023	0.85	mg/l	1.5
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	3.6	mg/l	50
17	Total Suspended Solid (TSS)	APHA (24th edition) 2540 D :2023	7.5	mg/l	

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



TC-14075

18	Turbidity	APHA 24 TH EDITION 2130 B	8.3	NTU	--
19	Sodium (as Na)	APHA 24 TH EDITION 3500 Na B	27.9	mg/l	--
20	Potassium (as K)	APHA 24 TH EDITION 3500 K B	13.2	mg/l	--

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Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/128
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/013
Plant Status :	Non Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	0.06	mg/l	----
6	Zinc (as Zn)	VEC/WATER/SP/13	<0.01	mg/l	15

**Note: \* These above Parameter are out of Sources.**

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/129
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/014
Plant Status :	NON OPERATIONAL	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	0.58	mg/l	----
6	Zinc (as Zn)	VEC/WATER/SP/13	<0.01	mg/l	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/130
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/015
Plant Status :	NON OPERATIONAL	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR, VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/ Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	0.62	mg/l	----
6	Zinc (as Zn)	VEC/WATER/SP/13	<0.01	mg/l	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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TC-14075

## TEST REPORT

### (SOIL)

Client Reference No.:	NVEC/RNC/24-25/009	ULR NO:	TC1407524000000120F
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/24-25/131
		Report Release Date:	24/09/2024
		Sampling Date :	16/09/2024
Sample Description:	SANDY LOAM, YELLOWISH	Sample Receipt Date:	17/09/2024
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM )	Sample ID:	VEC/SQ/24/09/17/016
Client Representative (Name & Designation):	RAVI TADELA	Period of Analysis:	17/09/2024 to 23/ 09/2024
Sample Collected by (Name & Designation):	NVEC TEAM	Type of Sampling:	Composite
Sample Quantity:	2KG	Depth of Sampling:	30 cm
Sampling Protocol/Procedure :	VEC/SOIL/SP/16	Packing Status:	Sealed

## TEST RESULT

Discipline : Chemical		Group : Pollution & Environment		
S. No.	Parameter	Protocol	Result	Unit
1	pH	IS 2720 (Part 26):1987 (RA 2021)	6.4	----
2	Electrical Conductivity	IS 14767 :2000 (RA 2021)	93.2	µs/cm
3	Organic Matter	IS 2720 (Part 22) :1972 (RA 2020)	0.41	%
4	Bulk Density	IS 2720 (Part 28):1974 (RA:2020)	1.32	g/cm <sup>3</sup>
5	Water Holding Capacity	IS 14765 :2000 (RA:2021)	37.2	%

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Reviewed by:

*Kaishma*

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh

Designation: CEO

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

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Email – visionearthjkh@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 (SOIL)

Client Reference No.:	NVEC/RNC/24-25/009		
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/24-25/132
		Report Release Date:	24/09/2024
		Sampling Date :	16/09/2024
Sample Description:	SANDY LOAM, YELLOWISH	Sample Receipt Date:	17/09/2024
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM )	Sample ID:	VEC/SQ/24/09/17/016
Client Representative (Name & Designation):	RAVI TADELA	Period of Analysis:	17/09/2024 to 23/ 09/2024
Sample Collected by (Name & Designation):	NVEC TEAM	Type of Sampling:	Composite
Sample Quantity:	2KG	Depth of Sampling:	30 cm
Sampling Procedure :	VEC/SOIL/SP/16	Packing Status:	Sealed

## TEST RESULT

Discipline : Chemical		Group : Pollution & Environment		
S. No.	Parameter	Protocol/Procedure	Result	Unit
1	Organic carbon (%)	VEC/SOIL/SP/16	0.45	%
2	Available N	VEC/SOIL/SP/16	253	(kg/ha)
3	Available P	VEC/SOIL/SP/16	9.2	(kg/ha)
4	Available K	VEC/SOIL/SP/16	102	(kg/ha)
5	Fe	VEC/SOIL/SP/16	3.67	Mg/kg
6	Cu	VEC/SOIL/SP/16	0.53	Mg/kg
7	Zn	VEC/SOIL/SP/16	0.76	Mg/kg
8	Mn	VEC/SOIL/SP/16	7.00	Mg/kg

Note:-\*These above parameter are out sources.

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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Jharkhand State Pollution Control Board (JSPCB) B-2062

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



TC-14075

## TEST REPORT (AMBIENT AIR)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO:	TC1407524000000111F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/114
		Report Release Date :	24/09/2024
		Sampling Date	16/09/2024 to 17/09/2024
Weather Condition	Clear	Sample Receipt Date :	17/09/2024
Average Temperature (°C)	29 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	759 (mmHg)	Sample Condition	Sealed and Preserved
Plan Status	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024

Sampling Location	Unit 1	Unit 2	Unit 3
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)
Sample ID	NVEC/AQ/24/09/17/001	NVEC/AQ/24/09/17/002	NVEC/AQ/24/09/17/003
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/001 (RDS), VEC/Field/007 (FPS)	VEC/Field/002 (RDS), VEC/Field/008 (FPS)	VEC/Field/003 (RDS), VEC/Field/009 (FPS)
Instrument calibration status	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025
Sampling Location	Unit 4		
	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Sample ID	NVEC/AQ/24/09/17/004		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/022 (RDS), VEC/Field/023 (FPS)		
Instrument calibration status	22/08/2024 to 21/08/2025		

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



TC-14075

## General Information

Client Representative (Name & Designation) : Ravi Tadela  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring (Average) : 09:40 AM  
Actual duration of Monitoring, (minutes) : 1445 (Minutes)  
Surrounding activity : Vacant Land  
Scope of Monitoring : PM10, PM2.5, SO<sub>2</sub>, NO<sub>2</sub>,  
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)	67.8	62.8	64.9	68.1	µg/m <sup>3</sup>	100µg/m <sup>3</sup>
2	Particulate Matter (PM2.5)	IS 5182 : Part 24 : 2019	26.2	25.8	28.2	24.6	µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
3	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182:Part 2:2018 (RA:2023 )	BDL<6.0	BDL<6.0	BDL<6.0	BDL<6.0	µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
4	Oxides of Nitrogen (NO <sub>x</sub> )	IS 5182:Part 6:2006 (RA:2022 )	12.7	14.2	11.3	11.9	µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT (AMBIENT AIR)

Client Reference No:	NVEC/RNC/24-25/009		
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/115
		Report Release Date :	24/09/2024
		Sampling Date	16/09/2024 to 17/09/2024
Weather Condition	Clear	Sample Receipt Date :	17/09/2024
Average Temperature (°C)	29 °C	Sample Description:	Ambient Air Quality
Barometric Pressure(mmHg)	759 (mmHg)	Sample Condition	Sealed and Preserved
Plan Status	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024

Sampling Location	Unit 1	Unit 2	Unit 3
	CORE ZONE (NEAR GUARD ROOM)	UPARDIHA VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)	KUALI VILLAGE, (GOVT. PRIMARY SCHOOL CAMPUS)
Sample ID	NVEC/AQ/24/09/17/001	NVEC/AQ/24/09/17/002	NVEC/AQ/24/09/17/003
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/001 (RDS), VEC/Field/007 (FPS)	VEC/Field/002 (RDS), VEC/Field/008 (FPS)	VEC/Field/003 (RDS), VEC/Field/009 (FPS)
Instrument calibration status	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025
Sampling Location	Unit 4		
	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Sample ID	NVEC/AQ/24/09/17/004		
Instrument Used	RDS APM 460, FPS APM 550 MINI		
Instrument code	VEC/Field/022 (RDS), VEC/Field/023 (FPS)		
Instrument calibration status	22/08/2024 to 21/08/2025		



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

## General Information

Client Representative (Name & Designation) : Ravi Tadela  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring (Average) : 09:40 AM  
Actual duration of Monitoring, (minutes) : 1445 (Minutes)  
Surrounding activity : Vacant Land  
Scope of Monitoring : PM10, PM2.5, SO<sub>2</sub>, NO<sub>2</sub>,  
Control measure if Any : No  
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 <sub>2</sub> S)	VEC/SP/AIR/14	>04	>04	>04	>04	µg/m <sup>3</sup>	-----
2	Methane (CH <sub>4</sub> )	VEC/SP/AIR/14	<0.1	<0.1	<0.1	<0.1	ppm	-----

Note – \*These above Parameter are out of sources.

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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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 (AMBIENT NOISE)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO:	TC1407524000000112F
Name & Address of Client:	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/116
		Report Release Date :	24/09/2024
		Sampling Date	16/09/2024 to 17/09/2024
Weather Condition	Clear	Sample Receipt Date :	17/09/2024
Average Temperature (°C)	29 °C	Sample Description:	Ambient Noise
Barometric Pressure(mmHg)	759 (mmHg)	Period of Analysis	17/09/2024 to 23/ 09/2024
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)
Sample ID	NVEC/ANQ/24/09/17/005	NVEC/ANQ/24/09/17/006	NVEC/ANQ/24/09/17/007
Instrument Used	SOUND LEVEL METER	SOUND LEVEL METER	SOUND LEVEL METER
Instrument code	VEC/Field/018	VEC/Field/019	VEC/Field/020
Instrument calibration status	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025	22/08/2024 to 21/08/2025
	Unit 4		
Sampling Location	NISHCHINTPUR VILLAGE (GOVT. PRIMARY SCHOOL CAMPUS)		
Sample ID	NVEC/ANQ/24/09/17/008		
Instrument Used	SOUND LEVEL METER		
Instrument code	VEC/Field/021		
Instrument calibration status	22/08/2024 to 21/08/2025		



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



TC-14075

## General Information

Client Representative (Name & Designation) : Ravi Tadela  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring : 09:50 AM  
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 <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	L <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	L <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	L <sub>MAX</sub> (DAY)	L <sub>MIN</sub> (NIGHT)	L <sub>eq</sub>	dB(A)	Day 75 dB(A) & Night 70 dB(A)
50.5	39.2	52.8	55.9	38.7	56.8	56.5	40.1	59.2	59.1	35.7	53.8		

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh

Designation: CEO

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

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TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000113F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/117
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/009
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

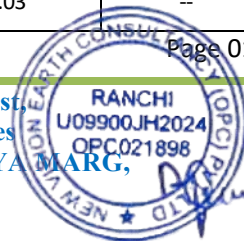
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.823	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	321	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	83	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	178.2	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	151.6	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	123.8	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	35.2	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	9.2	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	14.1	mg/l	250	1000
14	Fluoride (as F)	APHA(24th edition) :4500F-D:2023	0.72	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	9.7	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	1.7	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.9	mg/l	0.03	--

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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TC-14075

## TEST REPORT

### (WATER)

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000114F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/118
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/010
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, UPAARDIHA VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.518	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	1429	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	45	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	943.8	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	337.1	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	543.8	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	132	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	72.6	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	187	mg/l	250	1000
14	Fluoride (as F)	APHA(24th edition) :4500F-D:2023	0.47	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	34.8	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	2.8	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.43	mg/l	0.03	--

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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

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

Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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



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

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



TC-14075

## TEST REPORT (WATER)

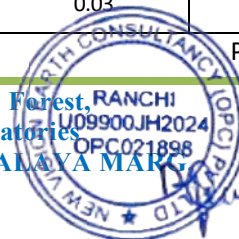
Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000115F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/119
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/011
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, KUALI, VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.657	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	1198	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	<2	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	778.7	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	246.8	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	429	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	122.4	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	39.2	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	118.6	mg/l	250	1000
14	Fluoride (as F)	APHA(24th edition) :4500F-D:2023	0.47	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	42.8	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	8.8	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.11	mg/l	0.03	--

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



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## TEST REPORT (WATER)

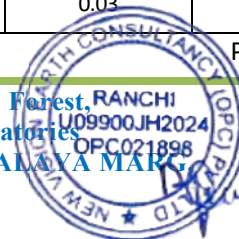
Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000116F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/120
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/012
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL, NISHCHINTPUR, VILLAGE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	pH Value	APHA (24th edition) 4500-H+ :2023	6.508	-	6.5-8.5	6.5-8.5
2	Conductivity	IS: 3025(Part 14) : 2013(RA2023)	559	μS/c m	--	--
3	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	5	15
4	Odor	APHA(24th edition) 2150B:2023	Agreeable	-	Agreeable	Agreeable
5	Taste	APHA (24th edition) 2160C : 2023	Agreeable	-	Agreeable	Agreeable
6	Turbidity	APHA(24th edition) 2130B:2023	41	NTU	1.0	5.0
7	Free Residual Chlorine	APHA(24th edition) 4500 Cl-B :2023	BDL	mg/l	0.2	1.0
8	Total Dissolved Solids (TDS)	APHA (24th edition) 2540 C :2023	363.3	mg/l	500	2000
9	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	156.2	mg/l	200	600
10	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	121.2	mg/l	200	600
11	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	36.5	mg/l	75	200
12	Magnesium (as Mg)	APHA(24th edition) 3500-Mg-B:2023	11.8	mg/l	30	100
13	Chloride(as Cl )	APHA (24th edition) 4500-Cl- B :2023	46.9	mg/l	250	1000
14	Fluoride (as F <sup>-</sup> )	APHA(24th edition) :4500F-D:2023	0.47	mg/l	1.0	1.5
15	Sulphate(as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023	25.4	mg/l	200	400
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	1.3	mg/l	45	45
17	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	0.82	mg/l	0.03	--

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh

Designation: CEO

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



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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/121
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/009
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (CORE ZONE)	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/ Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.02	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.04	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.01	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.02	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.52	mg/l	5	15

Note- \* These above parameter are out of Sources.

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/122
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/010
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , UPARDIHA VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.063	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.04	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.01	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.51	mg/l	5	15

**Note- \* These above Parameter are out of Sources.**

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



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

Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT (WATER)

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/123
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/011
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , KUALI VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.05	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.007	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.01	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.36	mg/l	5	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



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

Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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## TEST REPORT (WATER)

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/124
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/GW/24/09/17/012
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	HAND PUMP (UTKRAMIT PRIMARY SCHOOL , NISHCHINTPUR, VILLAGE	Type of Sampling:	GRAB
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	GROUND WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	As per 10500:2012	
					Acceptable Limit	Permissible Limit
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	0.05	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	<0.03	mg/l	0.1	0.3
3	Arsenic (as As)	VEC/WATER/SP/13	<0.01	mg/l.	0.01	0.05
4	Lead (as Pb)	VEC/WATER/SP/13	<0.005	mg/l	0.01	No relaxation
5	Nickel (as Ni)	VEC/WATER/SP/13	<0.02	mg/l	0.02	No relaxation
6	Zinc (as Zn)	VEC/WATER/SP/13	0.42	mg/l	5	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

Page 01/01

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ASHOK NAGAR, RANCHI- 834002, JHARKHAND.  
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Email – visionearthjkh@gmail.com



# 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



TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000117F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/125
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/013
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

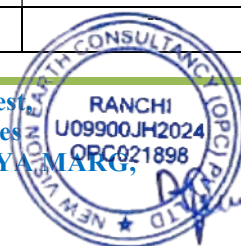
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	pH Value	APHA (24th edition) 4500-H+ :2023	7.681	-	6.5-8.5
2	Electrical Conductivity	IS: 3025(Part 14) : 2013(RA2023)	528	μS/cm	--
3	Total Dissolved Solids	APHA (24th edition) 2540 C :2023	327.4	mg/l	1500
4	Dissolved Oxygen (DO)	APHA 24th.2023:4500 O-C :2023	6.5	mg/l	4.0
5	Chloride as Cl <sup>-</sup>	APHA (24th edition) 4500-Cl- B :2023	16.2	mg/l	600
6	Biological Oxygen Demand (BOD)	IS 3025 (Part-44):1993; RA2014	2.8	mg/l	3.0
7	Chemical Oxygen Demand (COD)	IS 3025 (Part-58):2006; RA2017	32	mg/l	--
8	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	<0.1	mg/l	50
9	Sulphate (as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023	19.6	mg/l	400
10	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	300
11	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	195	mg/l	--
12	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	212		--
13	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	28.2	mg/l	--
14	Magnesium as Mg	APHA(24th edition) 3500-Mg-B:2023	28.2	mg/l	--
15	Fluoride (as F <sup>-</sup> )	APHA(24th edition) 4500F-D:2023	0.68	mg/l	1.5
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	6.9	mg/l	50
17	Total Suspended Solid (TSS)	APHA (24th edition) 2540 D :2023	12.9	mg/l	

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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

18	Turbidity	APHA 24 TH EDITION 2130 B	7.9	NTU	--
19	Sodium (as Na)	APHA 24 TH EDITION 3500 Na B	26.4	mg/l	--
20	Potassium (as K)	APHA 24 TH EDITION 3500 K B	10.9	mg/l	--

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Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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



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Jharkhand State Pollution Control Board (JSPCB) B-2062

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



TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000118F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/126
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/014
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

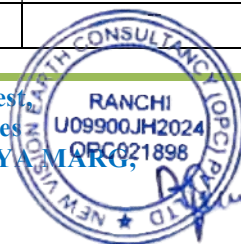
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	pH Value	APHA (24th edition) 4500-H+ :2023	7.703	-	6.5-8.5
2	Electrical Conductivity	IS: 3025(Part 14) : 2013(RA2023)	823	μS/cm	--
3	Total Dissolved Solids	APHA (24th edition) 2540 C :2023	534.9	mg/l	1500
4	Dissolved Oxygen (DO)	APHA 24th.2023:4500 O-C :2023	4.2	mg/l	4.0
5	Chloride as Cl <sup>-</sup>	APHA (24th edition) 4500-Cl- B :2023	35.7	mg/l	600
6	Biological Oxygen Demand (BOD)	IS 3025 (Part-44):1993; RA2014	2.7	mg/l	3.0
7	Chemical Oxygen Demand (COD)	IS 3025 (Part-58):2006; RA2017	33	mg/l	--
8	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	<0.1	mg/l	50
9	Sulphate (as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023	10.9	mg/l	400
10	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	300
11	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	293	mg/l	--
12	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	263		--
13	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	57.2	mg/l	--
14	Magnesium as Mg	APHA(24th edition) 3500-Mg-B:2023	32.4	mg/l	--
15	Fluoride (as F <sup>-</sup> )	APHA(24th edition) 4500F-D:2023	0.92	mg/l	1.5
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	2.9	mg/l	50
17	Total Suspended Solid (TSS)	APHA (24th edition) 2540 D :2023	17.2	mg/l	

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



TC-14075

18	Turbidity	APHA 24 TH EDITION 2130 B	11	NTU	--
19	Sodium (as Na)	APHA 24 TH EDITION 3500 Na B	29.3	mg/l	--
20	Potassium (as K)	APHA 24 TH EDITION 3500 K B	13.2	mg/l	--

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Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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



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



TC-14075

## TEST REPORT

### ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	ULR NO :	TC1407524000000119F
Name & Address of Client :	M/S INTERGRATED MUNICIPAL SOLID WASTE MANAGEMENT FACILITY, (SANITARY LANDFILL) AT- BEGUNADIH, TEHSIL POTKA DIST- EAST SINGHBHUM, JHARKHAND	Report No.:	NVEC/RNC/24-25/127
		Report Release Date :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/015
Plant Status :	Non-Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

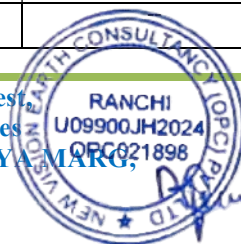
## TEST RESULT

S. No.	Parameter	Protocol	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	pH Value	APHA (24th edition) 4500-H+ :2023	7.932	-	6.5-8.5
2	Electrical Conductivity	IS: 3025(Part 14) : 2013(RA2023)	692	μS/cm	--
3	Total Dissolved Solids	APHA (24th edition) 2540 C :2023	449.8	mg/l	1500
4	Dissolved Oxygen (DO)	APHA 24th.2023:4500 O-C :2023	5.5	mg/l	4.0
5	Chloride as Cl <sup>-</sup>	APHA (24th edition) 4500-Cl- B :2023	50.9	mg/l	600
6	Biological Oxygen Demand (BOD)	IS 3025 (Part-44):1993; RA2014	2.9	mg/l	3.0
7	Chemical Oxygen Demand (COD)	IS 3025 (Part-58):2006; RA2017	40	mg/l	--
8	Iron(as Fe)	APHA (24th edition) 3500 Fe B :2023	<0.1	mg/l	50
9	Sulphate (as SO <sub>4</sub> )	APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023	4.2	mg/l	400
10	Colour	APHA 24th Edition 2120 B:2023	<5.0	Cu	300
11	Total Alkalinity (as CaCO <sub>3</sub> )	APHA(24th edition) 2320 B: 2023	255	mg/l	--
12	Total Hardness (as CaCO <sub>3</sub> )	APHA (24th edition) 2340 C:2023	211.8		--
13	Calcium (as Ca)	APHA (24th edition) 3500 Ca-B:2023	33.2	mg/l	--
14	Magnesium as Mg	APHA(24th edition) 3500-Mg-B:2023	16.3	mg/l	--
15	Fluoride (as F <sup>-</sup> )	APHA(24th edition) 4500F-D:2023	0.85	mg/l	1.5
16	Nitrate (as NO <sub>3</sub> )	APHA (24th edition) 4500 NO <sub>3</sub> B :2023	3.6	mg/l	50
17	Total Suspended Solid (TSS)	APHA (24th edition) 2540 D :2023	7.5	mg/l	

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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

18	Turbidity	APHA 24 TH EDITION 2130 B	8.3	NTU	--
19	Sodium (as Na)	APHA 24 TH EDITION 3500 Na B	27.9	mg/l	--
20	Potassium (as K)	APHA 24 TH EDITION 3500 K B	13.2	mg/l	--

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Reviewed by:

Name: Krishna Kumar  
Designation: Quality 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 ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/128
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/013
Plant Status :	Non Operational	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), UPARDIHA VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class "C"
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	0.06	mg/l	----
6	Zinc (as Zn)	VEC/WATER/SP/13	<0.01	mg/l	15

**Note: \* These above Parameter are out of Sources.**

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/129
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/014
Plant Status :	NON OPERATIONAL	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (BELOW BRIDGE), KUALI VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	0.58	mg/l	----
6	Zinc (as Zn)	VEC/WATER/SP/13	<0.01	mg/l	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

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## TEST REPORT ( WATER )

Client Reference No:	NVEC/RNC/24-25/009	Report No.:	NVEC/RNC/24-25/130
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 :	24/09/2024
		Sampling Date :	16/09/2024
		Sample Receipt Date :	17/09/2024
		Sample ID:	NVEC/SW/24/09/17/015
Plant Status :	NON OPERATIONAL	Period of Analysis	17/09/2024 to 23/ 09/2024
Sampling Location /Source:	NALA WATER (NEAR DVC BOUNDARY), NISHCHINTPUR, VILLAGE	Type of Sampling:	COMPOSIT
Client Representative (Name & Designation) :	RAVI TADELA	Sample Description:	SURFACE WATER
		Sample Condition:	SEALED & PRESERVED
Sample collected by (Name & Designation) :	NVEC TEAM	Preservation :	H <sub>2</sub> SO <sub>4</sub> , HCL
Sample Quantity :	1 Liter	Sampling Protocol/Procedure	VEC/WATER/SP/13

## TEST RESULT

S. No.	Parameter	Protocol/ Procedure	Result	Unit	Tolerance Limit (As IS 2296) # Class " C "
1	Copper (Cu)	VEC/WATER/SP/13	<0.01	mg/l	1.5
2	Manganese (as Mn)	VEC/WATER/SP/13	0.62	mg/l	----
6	Zinc (as Zn)	VEC/WATER/SP/13	<0.01	mg/l	15

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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



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



TC-14075

## TEST REPORT (SOIL)

Client Reference No.:	NVEC/RNC/24-25/009	ULR NO:	TC1407524000000120F
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/24-25/131
		Report Release Date:	24/09/2024
		Sampling Date :	16/09/2024
Sample Description:	SANDY LOAM, YELLOWISH	Sample Receipt Date:	17/09/2024
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM )	Sample ID:	VEC/SQ/24/09/17/016
Client Representative (Name & Designation):	RAVI TADELA	Period of Analysis:	17/09/2024 to 23/ 09/2024
Sample Collected by (Name & Designation):	NVEC TEAM	Type of Sampling:	Composite
Sample Quantity:	2KG	Depth of Sampling:	30 cm
Sampling Protocol/Procedure :	VEC/SOIL/SP/16	Packing Status:	Sealed

## TEST RESULT

Discipline : Chemical		Group : Pollution & Environment		
S. No.	Parameter	Protocol	Result	Unit
1	pH	IS 2720 (Part 26):1987 (RA 2021)	6.4	----
2	Electrical Conductivity	IS 14767 :2000 (RA 2021)	93.2	µs/cm
3	Organic Matter	IS 2720 (Part 22) :1972 (RA 2020)	0.41	%
4	Bulk Density	IS 2720 (Part 28):1974 (RA:2020)	1.32	g/cm <sup>3</sup>
5	Water Holding Capacity	IS 14765 :2000 (RA:2021)	37.2	%

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

Reviewed by:

*Kaishma*

Name: Krishna Kumar

Designation: Quality 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. – C/O SMT NEETA SINGH, H. NO. 192/C, PL.NO.354/15, VIDHYALAYA MARG,  
ASHOK NAGAR, RANCHI- 834002, JHARKHAND.  
Contact: - +91-9955095641, +91-9546333332,  
Email – visionearthjkh@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 (SOIL)

Client Reference No.:	NVEC/RNC/24-25/009		
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/24-25/132
		Report Release Date:	24/09/2024
		Sampling Date :	16/09/2024
Sample Description:	SANDY LOAM, YELLOWISH	Sample Receipt Date:	17/09/2024
Sampling Location/Source :	PROJECT SITE (BESIDE GUARD ROOM )	Sample ID:	VEC/SQ/24/09/17/016
Client Representative (Name & Designation):	RAVI TADELA	Period of Analysis:	17/09/2024 to 23/ 09/2024
Sample Collected by (Name & Designation):	NVEC TEAM	Type of Sampling:	Composite
Sample Quantity:	2KG	Depth of Sampling:	30 cm
Sampling Procedure :	VEC/SOIL/SP/16	Packing Status:	Sealed

## TEST RESULT

Discipline : Chemical		Group : Pollution & Environment		
S. No.	Parameter	Protocol/Procedure	Result	Unit
1	Organic carbon (%)	VEC/SOIL/SP/16	0.45	%
2	Available N	VEC/SOIL/SP/16	253	(kg/ha)
3	Available P	VEC/SOIL/SP/16	9.2	(kg/ha)
4	Available K	VEC/SOIL/SP/16	102	(kg/ha)
5	Fe	VEC/SOIL/SP/16	3.67	Mg/kg
6	Cu	VEC/SOIL/SP/16	0.53	Mg/kg
7	Zn	VEC/SOIL/SP/16	0.76	Mg/kg
8	Mn	VEC/SOIL/SP/16	7.00	Mg/kg

Note:-\*These above parameter are out sources.

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

Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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

Page: 01/01

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

# दैनिक जागरण

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

गया। घटना की सूचना मिलते ही कालीमांवर 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](http://164.100.213.216/Esign/Esign/ECL_AUTH_47F101_JA_JH_INFRA2_410593_2022.pdf) पर उपलब्ध है। टाटा स्टील लिमिटेड जमशेदपुर

झारखण्ड- 831001

JHARKHAND'S OWN ENGLISH DAILY

# THE AVENUE MAIL

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

## NOTICE

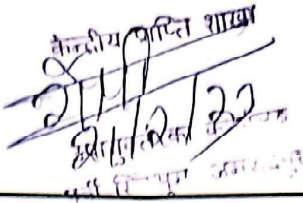

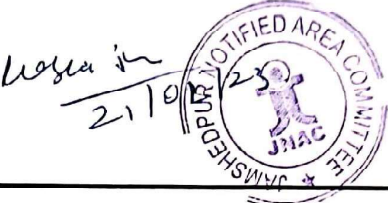
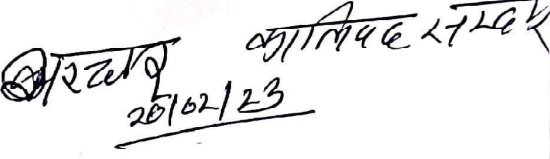
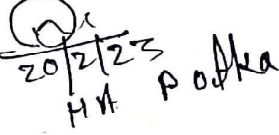

This is to inform that Tata Steel Limited, Jamshedpur has been accorded Environmental Clearance vide EC Identification No. EC23A037JH170166 dated 13.02.2023 from Ministry of Environment, Forest & Climate Change, Government of India New Delhi for "Integrated Municipal Solid Waste Management Facility".

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

[https://164.100.213.216/Esign/Esign/ECL\\_AUTH\\_47F101\\_JA\\_JH\\_INFRA2\\_41593\\_2022.pdf](https://164.100.213.216/Esign/Esign/ECL_AUTH_47F101_JA_JH_INFRA2_41593_2022.pdf)

Tata Steel Limited, Jamshedpur  
Jharkhand - 831001

## Annexure-V

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

Your ( <b>Environment Clearance</b> ) application has been <b>Submitted</b> with following details	
Proposal No	IA/JH/INFRA2/410593/2022
Compliance ID	27890737
Compliance Number(For Tracking)	EC/COMPLIANCE/27890737/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	29-05-2024
IRO Name	ARTATRANA MISHRA
IRO Email	jhk109@ifs.nic.in
State	JHARKHAND
IRO Office Address	Integrated Regional Offices, Ranchi
<b>Note:-</b> SMS and E-Mail has been sent to ARTATRANA MISHRA, JHARKHAND with Notification to Project Proponent.	

## **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<sub>2.5</sub>
  - PM<sub>10</sub>
  - SO<sub>2</sub>
  - NO<sub>x</sub>During Operations Phase:
  - PM<sub>2.5</sub>
  - PM<sub>10</sub>
  - SO<sub>2</sub>
  - NO<sub>x</sub>
  - CH<sub>4</sub>
  - H<sub>2</sub>S
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 <sub>4</sub>
6.	Available K
7.	Water Soluble Sulphates as SO <sub>4</sub>
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).