



SIX-MONTHLY COMPLIANCE REPORT

of

ENVIRONMENT CLEARANCE

(No. J-12011/26/2012-IA-I dated 4th September, 2019 and EC amendment date 03.01.2024)

for

LOWER KOPILI HYDRO ELECTRIC PROJECT (120 MW), ASSAM

TO

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE,

**IA.I Division, Indira Paryavaran Bhawan, 3rd Floor, Vayu Wing, JorBagh Road,
New Delhi - 110 003**



SUBMITTED BY


ASSAM POWER GENERATION CORPORATION LIMITED


June, 2024



Compliance of stipulated conditions of Environmental Clearance



Sl. No.	EC conditions	Status of Compliance
Specific Conditions		
I	The Environmental Management Plan (EMP) shall be strictly adhered to and a sum of Rs.26147.5077 lakhs (Capital cost: 15427.689 lakhs & Recurring cost: Rs. 10117.817 lakhs), the budgetary provisions for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose. In case of revision of the project cost or due to price level change, the cost of EMP shall also updated proportionately.	Agreed.
II	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No.22-6512017-IA.III dated 1 st May 2018 regarding Corporate Environment Responsibility. Project proponent shall require to invest Rs 5.81 crore for CER activities as submitted to the Ministry. A total budget of Rs. 5.81 crore shall be spent for upgradation of education facilities in existing schools (Rs. 66.0 lakhs), construction of community toilets (Rs.380.0 lakhs), upgradation of Health care facilities (Rs. 115.0 lakhs) and awareness generation (Rs 20.0 lakhs). The entire activities under CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half-yearly compliance report and to a District Collector.	<p>Year wise CER and LAD plan are being prepared under the guidance of three committees through consultations with local people, Govt. line departments, etc. As soon as the plan is finalised it will be shared with MoEF&CC.</p> <p>Annexure 1 : LAD coordination Committee Annexure 2: Facilitation Committee Annexure 3 : CER, LAD committee</p>
III	The environmental clearance is valid for period of 10 years from the date of issue of this letter for commissioning of the project.	Agreed
IV	After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.	Agreed
V	Any other clearances/permissions/approvals from any other organization/department, as applicable to the project shall be taken.	<p>Agreed and obtained all the required clearances from other organization / department.</p> <p>As per the approved MOC from CEA on 9.11.22, Amendment in EC accorded on 03.01.20 by MoEF&CC, GOI. Annexure 4.</p>
VI	PP shall procure construction material only from those Govt./Pvt. Agencies/Corporations/etc. that are having all applicable legal/statutory clearances/permissions or necessary permission to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof.	<p>Minor minerals are taken from the Govt. approved agencies. For extraction of aggregates, quarry area of 4.61 Ha has been identified and necessary clearances and permissions from North Cachar Hills Autonomous Council, Directorate of Geology and Mines, Forest Department has already been taken. EC accorded for the Quarry. Mostly the aggregates are being taken from the excavated materials only.</p>
VII	Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of river basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months or as submitted in the EIA/EMP report, whichever value is higher, shall be	Agreed


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	released as environmental flow.	
Specific condition as per Amendment of EC dated 03.01.2024		
1.1	Aquatic study specially migratory aquatic species concerning occurrence of fishes/ habitat impact study shall be carried out from recognized Government Institute and prepare mitigation measures, with provision of financial budget revised in the EMP. The outcome of the said study shall be implemented,	APGCL has already entrusted the College of Fisheries, Raha, under Assam Agricultural University to carry out the study. Work order issued on 14.02.2024. (Annexure 5). The study was initiated from February 2024.
1.2	Submit undertaking that R&R scenario / habitat of flora and fauna of project are not changed due to modification of the project component.	Agreed and submitted to MoEF&CC on 21.11.2023. Annexure 6
Standard conditions of Environmental Clearance		
I. Statutory compliance:		
i	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	<ul style="list-style-type: none"> • Stage-I Forest Clearance accorded by MoEF & CC, New Delhi on 5th February, 2019. • Stage-II Forest Clearance accorded by MoEF & CC, New Delhi on 04th December, 2020. <p>Pillar erection for the reservoir spread area already started and it will be completed before impounding.</p>   <p>Map of the reservoir spread boundary pillars fixed so far. (Annexure 7)</p> <p>The signage of designated muck disposal site is already fixed.</p>

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ii	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable. There is no Wildlife Sanctuary or National Parks within 10 km radius of the project site.
iii	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden, if applicable. 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-I species in the study area).	<p>Site Specific Conservation Plan and Wildlife Management Plan submitted to Chief Wildlife Warden, Assam on 25.6. 19.</p> <p>Biodiversity Management Committee has been constituted for implementation of the Wildlife Management Plan on 12.10.2022.</p> <p>First Biodiversity Management Committee meeting was organized on 21.12.2022. 2nd BMC meeting held on 21.06.2023 in the Divisional Forest Office, Dima Hasao West Division, Haflong and the 3rd BMC meeting held on 12.12.23.</p> <p>As per the agreed conservation strategy 10 camera traps will assesories were handed over to DFO, Dima Hasao on 13.06.24 for monitoring the terrestrial wildlife in Kruming RF.</p>  <p>Annexure 8 : Letter regarding handing over of camera traps.</p> <p>Meeting with the Dima Hasao Autonomous Council (Revenue, Tourism, Forest Department) on 13.6.24 to appraise them about the probable water level fluctuation due to dam operation at Panimur and Koka</p>

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		<p>Water falls where boating and rafting are organized by a local party during lean period.</p>  <p>Annexure 9 : Attendance sheet of the meeting. .</p>
iv	<p>The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.</p>	<p>Agreed.</p> <p>Package 2 Contractor has obtained the CTE and CTO for Crusher, 4 nos of DG sets; Batching Plant near power house along with 4 nos of DG sets and CTO for Batching Plant near Dam & 4 DG sets. CTO for crusher and DG sets obtained on 7/12.2021 vide Ref no. WB/SLC/T-1184/21-22/09/1152. CTO for batching plant near Dam and DG sets obtained on 03.01.2023 vide Reference No. WB/SLC/T-1191/21-22/39. CTO for batching plant near Power House and DG sets obtained on 31.10.2023 vide Reference No. WB/SLC/T-1191/21-22/31. CTE will be obtained before construction of the 120 MW power generating plant. All the CTOs were submitted in the last six monthly compliance report to MoEF&CC.</p> <p>Package 2 Contractor has also obtained the following CTOs. CTO for 15 KLD Water Treatment Plant CTO for 15 KLD Water Treatment Plant</p> <p>Package 3 Contractor has applied for RO plants from PCBA.</p> <p>Hot mix plant is not installed for the project. Roads were blacktopped by engaging an approved third party who was doing road improvement works from Lanka to Umrangso.</p> <p>Sedimentation tank was prepared for the batching plant. Cement slurries are</p>


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		<p>regularly cleared from the tank and deposited in the dumping ground in the revenue land.</p>  <p>As the sediment tanks were not adequate additional tanks were constructed.</p> 
v	NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.	Obtained and already submitted.
vi	Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs. 1,000 crore.	Obtained and already submitted.
II. Air quality monitoring and preservation		
i	Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a baseline data for post construction EIA / Monitoring purposes.	Regular monitoring done at project site at various sampling stations as mentioned in the EMoP (Environmental Monitoring Reports are enclosed in Annexure-10 . The monitoring were carried out by MoEF&CC recognized Lab).
ii	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.	Regular monitoring done at project site. Adequate spraying of water in roads and dust control measures has already been installed in respective dust generation site.
iii	Necessary control measures such as water sprinkling arrangements, etc. bet taken up to arrest fugitive dust at all the construction sites.	Regular monitoring done at project site and water sprinkling done.



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III. Water quality monitoring and preservation		
i	<p>Before impounding of the water, Cofferdams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; cofferdam should not create any adverse impact on water environment including the rock mass and muck used for the Cofferdam.</p>	<p>Agreed.</p>
ii	<p>Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet is submitted to the Regional Office, MoEF & CC and to the CWC on weekly basis.</p>	<p>Regular recording of discharge data were taken from Kopili river. Automatic real-time sensor to collect data on water inflow and out flows from the hydropower dam is under process.</p> 
IV. Noise monitoring and prevention		
i	<p>All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.</p>	<p>Agreed. All the DG sets are with acoustic enclosures.</p>



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ii	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Monitoring reports are enclosed in Annexure 10 and complied the Ambient Noise level standards.
V. Catchment Area Treatment Plan		
i	Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.	An Amount of Rs. 28, 29, 67,000.00 (Rupees Twenty Eight Crore Twenty Nine Lakh Sixty Seven Thousand) only already paid to Forest Department for implementation of Catchment Area Treatment Plan (CATP). APGCL is pursuing with Forest Department for implementation. Implementation report from the State Forest Department not yet received. As per CAT Plan the land bank map was prepared (Annexure 11). As per the letter from CEO, CAMP, Govt of Assam the preparation of the action plan and implementation of CAT Plan will be initiated in the AOP 2024-2025. Letter dated 11.10.23.
VI. Waste management		
i	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	At present dumping of excavated earth in 4 locations in Revenue land are going on. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures will be carried out so that sites are stabilized quickly. Copy of the approved Muck Management Plan already shared in the earlier Compliance reports. The plan was updated based on the site conditions and as per the approved design by CEA. Subsequently it was approved by APGCL and PMC and

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		submitted to ADB.
ii	Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports. Efforts be made to avoid one time use of plastics.	Agreed. SWM plan submitted to APGCL by package 2 contractor. At present segregation is going on at source and composting process is undertaken at site. Recyclable wastes are taken by vendors. Package 1, 2, 3 contractors has an agreement with the Umrangso Municipality Board for disposal of Solid wastes.
VII. Green Belt, EMP Cost, Fisheries and Wildlife Management		
i	Detailed information on species composition particular to fish species from previous study/literature be inventoried and proper management plan shall be prepared for in situ conservation in the streams, tributaries of river and the main river itself for which adequate budget provision be made and followed strictly.	<p>Agreed. As per EIA there was no fish species due to acidic nature of water. Hence no provisions were proposed for fish conservation in the EMP.</p> <p>However, as per EC condition Downstream river ecology study will be conducted after 5 years of commissioning of the project as per the stipulation 7.(IV) to update the baseline information and plan will be updated accordingly.</p> <p>Moreover, as per the addendum to EC Aquatic study specially migratory aquatic species concerning occurrence of fishes/habitat impact study shall be carried out from recognized Government Institute and prepare mitigation measures, with provision of financial budget revised in the EMP. Complying to the stipulation, APGCL has engaged the College of Fisheries Raha for Aquatic study.</p>
ii	Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department, if applicable.	<p>Wildlife conservation and management plan was prepared during the EIA and it was submitted to CWLW, Assam. In the last three Biodiversity Management Committee meeting it was discussed and DFO's of the respective divisions were requested to prepare a year wise action plan for its implementation.</p> <p>APGCL has handed over 10 camera traps with accessories to the DFO, Dima Hasao for the terrestrial monitoring of wildlife.</p>
iii	To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA/EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.	Agreed. Plantation already initiated.


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		 <p data-bbox="948 995 1425 1052">Plantation in the periphery of the reservoir will start soon.</p>
iv	Compensatory Afforestation programme shall be implemented as per the plan approved.	<p data-bbox="948 1058 1425 1085">Agreed.</p> <p data-bbox="948 1121 1425 1392">An amount of Rs. 15, 94, 23,850.00 (Rupees Fifteen Crore Ninety Four Lakh Twenty Three Thousand Eight Hundred Fifty) plus overhead only already paid to Forest Department for Compensatory Afforestation (CA) in CAMPA head. The 8 patches of Revenue land has already been notified as Reserved Forest by Govt. of Assam.</p> <p data-bbox="948 1398 1425 1455">Nursery has been raised under Dima Hasao West Forest Division.</p> <p data-bbox="948 1491 1425 1581">Seedling of different sizes in the newly established nursery nearby the village TorteLangsu</p>

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		 <p data-bbox="946 932 1427 1020">Seedling of different sizes ready for plantation, Longku near the highway around the Forest office.</p>
v	<p data-bbox="272 1136 919 1255">Fish ladder/pass as envisaged in the EIA/EMP report shall be maintained for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.</p>	<p data-bbox="946 1031 1430 1360">As the river water is acidic in nature, during the EIA study no fish ladder / pass was proposed. Hence Fish ladder/pass is not considered in this project. However as per the condition of MoEF&CC, APGCL requested College of Fisheries, Raha, under Assam Agricultural University to carry out a study on the availability of migratory aquatic species in the river Kopili within the project impact area. The study has been initiated in the month of February, 2024.</p>
VIII. Public hearing and Human health issues		
i	<p data-bbox="272 1577 919 1667">Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt., if any.</p>	<p data-bbox="946 1425 1354 1451">Agreed. Implementation is going on.</p> <ol data-bbox="946 1457 1406 1818" style="list-style-type: none"> <li data-bbox="946 1457 1406 1650">1. Copy of the Combined Resettlement and Tribal Development Plan (CRTDP) and the approval letters from the GOI and the autonomous district councils were already submitted in the earlier compliance report to MoEF&CC. <li data-bbox="946 1656 1406 1751">2. R&R Plan has been fully implemented baring few whose documents lacks authenticity. <li data-bbox="946 1757 1406 1818">3. Copy of fund utilization so far is presented in Annexure 12.
ii	<p data-bbox="272 1829 919 1908">Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in to.</p>	<p data-bbox="946 1829 1430 1908">Agreed. Local Area Development Plan will be implemented as per plan. Facilitation Committee for implementation of Local</p>

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		<p>Area Development Plan is constituted and accordingly meetings are conducted.</p> <p>APGCL has already taken up Community development work through the respective contractors as the contract is awarded under EPC mode.</p> <p>As the requirements evolves during the progress of the project, instead of a firm plan-based implementation program, APGCL has decided to go for Need Based Community Requirement, which is more aligned to the requirement of the community.</p> <p>Moreover, APGCL will also support community development works under LAD and CER.</p>
iii	<p>Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases.</p>	<p>Agreed.</p>  <p>Package 2 contractor has already taken up appropriate measures to control mosquitos.</p>
iv	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Agreed.</p> <p>Package 2, 3, 4 contractor has already constructed labour camps with he following facilities like - common kitchen, Sanitary and mobile toilets, safe drinking water, medical health care, etc.</p> 
v	<p>Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction sites.</p>	<p>Medical facility (First Aid Center) provided by the contractor at site.</p>

Sl. No.	EC conditions	Status of Compliance
		 <p data-bbox="946 548 1438 611">Health and AIDS awareness camp at First Aid centre.</p>
vi	<p data-bbox="261 611 933 1247">Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.</p>	<p data-bbox="933 611 1438 892">At present Early warning is given by district administration Disaster Management Cell and discharge data is shared by NEEPCO project authority located upstream. Project specific Early Warning Telemetric system is under installation before impounding of water. It will be completed soon.</p> 
vii	<p data-bbox="261 1247 933 1339">Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Break Analysis</p>	<p data-bbox="933 1247 1438 1339">Agreed. The Disaster Management Plan is prepared by IIT, Roorkee.</p>
IX. Corporate Environment Responsibility		
i	<p data-bbox="261 1388 933 1925">The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 01.05.2018, as applicable, regarding Corporate Environment Responsibility.</p>	<p data-bbox="933 1388 1438 1795">Agreed. Now will be covered under EMP as per OM of MoEF&CC. Moreover, there is also similar provisions in Local Area Development Fund under CRTDP. Activities will be carried out in phase manner. Year wise CER and LAD plan are being prepared under the guidance of three committees through consultations with local people, Govt. line departments, etc. As soon as the plan is finalised it will be shared with MoEF&CC.</p> <p data-bbox="933 1829 1438 1925"> Annexure 1 : LAD coordination Committee Annexure 2 : Facilitation Committee Annexure 3 : CER, LAD committee </p>

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ii	Skill mapping be undertaken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long time livelihood generation	1. Skill mapping and assessment already done under R&R Plan by NGO (Already submitted to MoEF&CC in Annexure 21 along with the previous compliance report). 2. Tender for engagement of an agency for Livelihood Training Program has been completed. Selection of the agency finalised and being implemented.
iii	The PP 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 balances 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 shareholders / 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.	Agreed. 1. APGCL has an environmental policy in place. (Annexure 13) 2. Standard Operating Procedure (SOP) is under review.
iv	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 to the head of the organization.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel are in place.
v	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.	Agreed and initiated.
vi	Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.	Agreed. Will be carried out after 5 years of commissioning of the project.
vii	Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the website of the Company.	Agreed and is in place. 1 st MDC meeting was convened on 6 th May, 2022. Minutes of the meeting of 2 nd MDC already shared in the last Six monthly compliance report. MOM of the 3 rd MDC is attached in the Annexure 14.
X. Miscellaneous		
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by 5 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	Already done. Copy of EC in the APGCL site : https://www.apgcl.org/lkhep.php

Sl. No.	EC conditions	Status of Compliance
	proponent's website permanently.	
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Already done.
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agreed and posted in Parivesh portal of MOEF&CC. Displayed in the APGCL site : https://www.apgcl.org/lkhep.php
iv	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.	Agreed and submitted every six months in the Parivesh portal as well as hard copy submitted to IRO.
v	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.	Agreed and will be submitted during operation.
vi	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.	Agreed.
vii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<p>Agreed.</p> <p>In the package 1 water flow Meters installed and records are being kept. (Annexure 15).</p>  <p>For other 2 packages, it was also installed.</p>

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viii	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed.
ix	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).	Agreed. During the detail designing and execution of the EPC contract minor adjustments were made with the approval from Central Electricity Authority, Central Water Commission, Geological Survey of India, Central Soil and Material Research Station, GOI keeping the power generation capacity of 120 MW, location of the Dam Axis, FRL of 226m, alignment of HRT remaining same as mentioned in the EC. For the above changes APGCL has sought the approval from MPEF&CC and accordingly on 14.11.23 Amendment of EC was accorded on 3.1.24 by MoEF&CC. (Annexure 4)
x	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.
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed.
xii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed.
xiv	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.
xv	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.	Agreed.

ANNEXURES : 1 - 15

Annexure 1 : LAD coordination Committee



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, 3rd floor, Paltanbazar, Guwahati-781 001, Assam

Mridul saikia

Chief General Manager (PP&I)

Project Director (PMU)

E-mail : mridul.saikia@apgcl.org

No: APGCL/LKHEP/PD/2017-18/21/Part-I/Part file-1/126

Dated: 11.11.2022

OFFICE ORDER

A Co-ordination Committee is hereby constituted for Lower Kopili Hydro Electric Project to facilitate consultation between Affected Peoples (APs), APGCL, District Council and NGO for discussion of APs problem regarding Land Acquisition, Rehabilitation & Resettlement and other aspects relating to Livelihood restoration and hence smooth implementation of CRTDP with the following members:

1. CGM (PP&I) APGCL- **Chairman**
2. GM LKHEP APGCL- **Member Convener**
3. GM (PP&I) APGCL- **Member**
4. DGM (Civil) LKHEP APGCL- **Member**
5. Social Safeguard Expert APGCL- **Member**
6. Environment Expert APGCL- **Member**
7. Social & Resettlement Expert PMC- **Member**
8. NGO CRADLE & GUS representative- **Member**
9. District Council Authority representative from Dima Hasao- **Member**
10. District Council Authority representative from Karbi Anglong- **Member**
11. Affected Peoples Representative- **Member**

NGO will facilitate consultation between the APs, APGCL and District Councils at the field offices and with the APs as and when required to discuss the implementation of CRTDP.


Chief General Manager (PP&I)

APGCL

Dated: 11.11.2022

Memo No: APGCL/LKHEP/PD/2017-18/21/Part-I/Part file-1/126(a)

Copy to:

- 1) The OSD to the Chairman, APGCL - for kind information of Hon'ble Chairman, APGCL
- 2) The OSD to the MD, APGCL- for kind information of MD, APGCL
- 3) Members concerned.
- 4) Relevant file.


Chief General Manager (PP&I)

APGCL

Date: - 25/11/2022

**ASSAM POWER GENERATION CORPORATION LIMITED
LOWER KOPILI HYDRO ELECTRIC PROJECT**

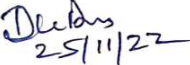
A review meeting was held on 11/10/2022 in the 3rd floor Chairman's conference hall, Bijulee Bhawan, Paltan Bazar, Guwahati-01 to discuss the CRTDP, JFPR & External monitoring works under 120MW Lower Kopili Hydro Electric Project. The meeting decided that a facilitation committee at site should be formed as per the contract agreement comprising officials of APGCL, NGO & PMC

A Facilitation Committee is hereby constituted to facilitate the implementation of CRTDP (Combined Resettlement and Tribal Development Plan) for the 120 MW Lower Kopili Hydro Electric Project funded by ADB and Govt. of Assam.

The committee shall facilitate all the works related to Resettlement and Rehabilitation (R&R) plan in accordance with the contract Agreement and liaison closely with the Project affected Families (PAF) and Project Affected Persons (PAP) in matters pertaining to other than land and property related i.e. R&R.

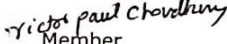
The following members of the committee are mentioned below:

1. **Sri Dilip Kr Das, GM, LKHEP, APGCL-----Chairman**
2. **Sri Jonardan Rongpi, DGM(C), LKHEP, APGCL-----Convener**
3. **Sri Pankaj Hazarika, Social Expert, APGCL-----Member Secretary**
4. **Sri Victor Paul Choudhury, AGM (C), LKHEP, APGCL-----Member**
5. **Sri Sangram Singh, Social & Resettlement Expert, PMC, AFRY-----Member**
6. **Sri LP Singh, Social Development Expert, NGO GUS-----Member**
7. **Sri Mukut Deka, Training cum Livelihood Specialist, NGO Cradle-----Member**


Chairman
GM, LKHEP
APGCL


Convener
DGM (C), LKHEP
APGCL


Member Secretary
Social Expert,
APGCL


Member
AGM (C), LKHEP
APGCL


Member
Social & Resettlement Expert,
PMC, AFRY


Member
Social Development Expert,
(NGO Cradle & GUS)


Member
Training cum Livelihood Specialist,
(NGO Cradle & GUS)



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, 3rd floor, Paltanbazar, Guwahati-781 001, Assam

Sri. Mridul Saikia

Project Director (PMU)

LOWER KOPILI HYDRO ELECTRIC PROJECT

E-mail: projectdirector@apgcl.com

No: APGCL/CGM(H)/W/2007/140/Pt-VI/43

Dated: 07/02/2022

OFFICE ORDER

In the interest of works, a committee is hereby constituted to supervise the works and determine the fund source for executing the works related to Corporate Environment Responsibility (CER), Conservation Plan for Schedule I Species under Environment Management Plan (EMP) and Local Area Development under Combined Resettlement and Tribal Development Plan (CRTDP) w.r.t Lower Kopili H.E. Project. The committee shall execute the works as per the regulations of Ministry of Environment, Forest & Climate Change (MoEF&CC) Govt. of India, Ministry of Tribal Affairs (MoTA) Govt. of India and Asian Development Bank (ADB). The committee shall comprise of the following members:

SL. No:	Members	Designation
1.	Th S. Singha, GM (PP&I), O/o the CGM (PP&I), APGCL	Head of the Committee
2.	Sri Saurav Saikia, GM (Civil) i/c, O/o the CGM (H&C), APGCL	Member
3.	Ph A. Singha, DGM (Civil), O/o the CGM (PP&I), APGCL	Member, Convenor
4.	Sri. A. Talukdar, DGM, O/o the CGM (PP&I), APGCL	Member
5.	Sri. M.J Pandit, AGM (Civil), O/o the CGM (PP&I), APGCL	Member
6.	Sri. P.J. Ligira, DM (ECE), O/o the GM, LKHEP, APGCL,	Member
7.	Sri. Gunjan Kr. Nath, JM (Civil), O/o the CGM (H&C), APGCL	Member
8.	Sri. A.J Pathak, AM (F&A), O/o the CGM (F&A), APGCL	Member
9.	Sri. Pankaj Hazarika, Social Safeguard Expert, APGCL	Member
10.	Dr. Deepak Baruah, Environmental Expert, APGCL	Member

The committee will be assisted by the PMC for LKHEP in the execution of the works.

Project Director (PMU)
APGCL

Copy to:

1. The OSD to the Chairman, APGCL, for kind information of Hon'ble Chairman.
2. The P.S. to Managing Director, APGCL, for kind information of Hon'ble MD.
3. The General Manager, Lower Kopili H.E. Project, Longku, for information.
4. The Team Leader, LKHEP, AFRY Ltd. for information and necessary action.
5. The Officers concerned.
6. Relevant file.



सत्यमेव जयते

File No.: J-12011/26/2012-IA.I
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 03/01/2024



To,

The Chief General Manager (Hydro)
M/s Assam Power Generation Corporation Ltd
2nd Floor, Bijulee Bhawan, Paltanbazar, Guwahati, Guwahati, KAMRUP METRO, ASSAM,
Paltanbazar, 781001
cgmh2010@yahoo.in

Subject: Lower Kopili HEP (120 MW) in Karbi Anglong & Dima Hasao, Assam by M/s Assam Power Generation Corporation Ltd- Amendment in Environmental Clearance- reg

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/AS/RIV/441844/2023 dated 23/10/2023 for grant of an amendment in prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A0505AS5877865A
(ii) File No.	J-12011/26/2012-IA.I
(iii) Clearance Type	Amendment in EC
(iv) Category	A
(v) Schedule No./ Project Activity	1(c) River Valley/Irrigation projects
(vi) Sector	River Valley and Hydroelectric Projects
(vii) Name of Project	Lower Kopili HEP (120MW) in Karbi Anglong & Dima Hasao, Assam, by M/s Assam Power Generation Corporation Ltd.
(viii) Location of Project (District, State)	DIMA HASAO, ASSAM
(ix) Issuing Authority	MoEF&CC
(x) EC Date	04/09/2019
(xi) Applicability of General Conditions	NO
(xiii) Status of implementation of the project	

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A, B and C) were submitted to the MoEF&CC for an appraisal by the Expert Appraisal Committee EAC under the provision of EIA notification 2006 and its subsequent amendments.
2. The above-mentioned proposal has been considered by Expert Appraisal Committee (EAC) in the meeting held on 26/10/2023. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
3. The brief about the reasons for an amendment requested along with comparison table illustrating the details of amendments are annexed to this letter as **Annexure (2)**.
4. The EAC, in its meeting held on 26.10.2023, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of amendment in Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof.
5. The MoEF&CC has examined the proposal in accordance with the extant provisions of the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the Expert Appraisal Committee hereby accords amendment in Environment Clearance dated 4.09.2019 for the instant proposal to **M/s Assam Power Generation Corporation Ltd** under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of EC conditions, general instructions issued vide EC letter dated and EC identification number IA/AS/RIV/441844/2023 and following certain additional specific conditions.
6. The details of amendment sought is at Annexure (2).
7. This issues with the approval of the Competent Authority

Copy To

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R. K. Puram, New Delhi - 110 066.
3. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office Law-U-Sib, Lumbatngen, Near MTC Workshop, Shillong
4. The Principal Chief Conservator of Forests, Head of Forest Force, Aranya Bhawan, Panjabari, Guwahati, 781037, Assam.
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032.
6. The Member Secretary, Assam Pollution Control Board, Bamunimaidam, Guwahati – 21
7. Guard file/Monitoring file
8. Website of MoEF&CC.

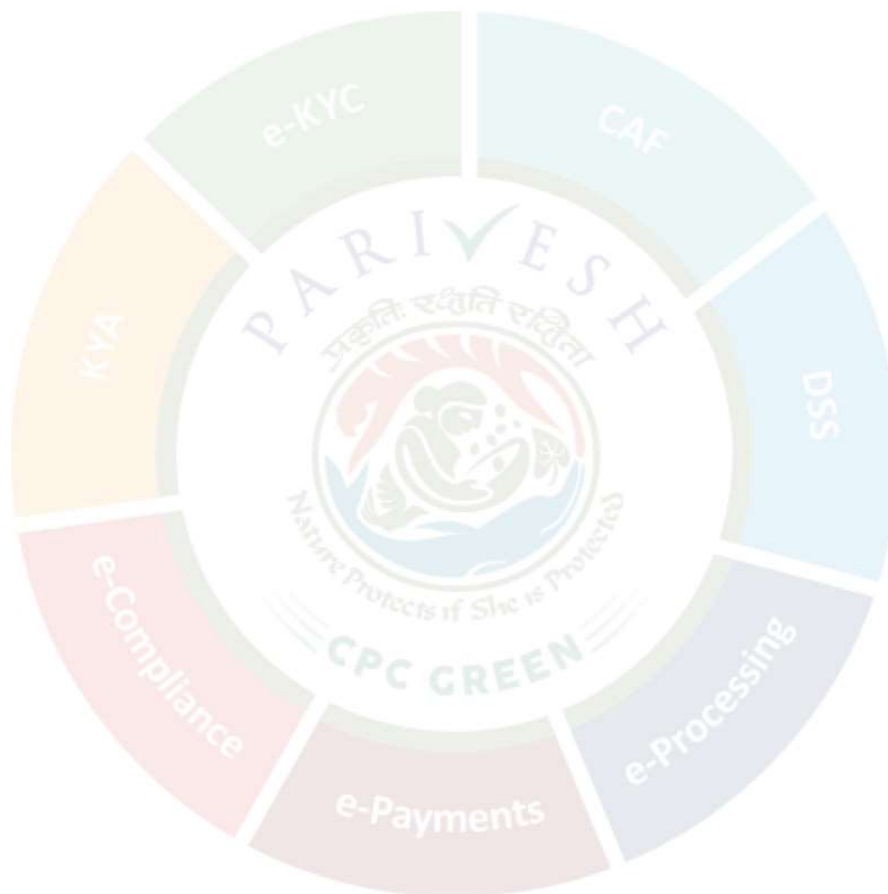
Annexure 1

Specific EC Conditions for (River Valley/irrigation Projects)

1. Additional Condition

S. No	EC Conditions
1.1	Aquatic study specially, migratory aquatic species concerning occurrence of fishes /habitat impact studies shall be carried out from recognised govt. Institutes and prepared mitigation measures, with provision of financial budget revised in the EMP. The outcome of the said study shall be

S. No	EC Conditions
	implemented.
1.2	Submit undertaking that R&R scenario /habitat of flora and fauna of project are not change due to modification of the project components.
1.3	All the conditions mentioned in the EC dated 4.09.2019 shall remain unchanged.



The details of amendment sought

The Project Proponent and the accredited Consultant made a detailed presentation on the salient features of the project and informed that:

- i. The Lower Kopili HEP (120 MW) is downstream development of existing Kopili HEP stage I and is located in east of Karbi Anglong and west of Dima Hasao districts of Assam.
- ii. The project is situated in the West Karbi Anglong and Dima Hasao (also known as North Cachar Hills) Autonomous District Council (ADC) areas of Central Assam. The Project location (dam site) is defined by 25°39'57.39"N latitude and 92°46'53.62"E longitude
- iii. The dam structure is located on Kopili River (a major tributary of the Brahmaputra River) and the main powerhouse and auxiliary power house structures are located on right bank of Kopili River.
- iv. The project envisages utilization of the regulated discharge from Kopili HEP, spills of Khandong and Umrong Dam and the discharge from the intermediate catchment by creation of a reservoir and utilizing a gross head of about 114m.
- v. This is a run-of-the-river scheme.
- vi. The scheme has been conceived to run at full potential in monsoon season and operate as a peaking station in non-monsoon season.
- vii. **Land requirement:** The total land requirement of the project is **1577** ha. The forest land to be acquired for the project is 523 ha. The private land to be acquired for the project is 1054 ha.
- viii. **Forest Clearance:** In principle approval of Stage 1 Forest Clearance for the diversion of 523.046 ha of forest land was accorded on 27 .03.2019.
- ix. **Environment clearance** for the project was accorded **on 04.09.2019**
- x. **E flow** will be maintained as per stipulation of EC.
- xi. **Salient features of the project:**
 - a. Land Area: 1577 Ha (Forest land 523.0 Ha, Revenue land 1054.0 Ha)
 - b. Power generation capacity: 120 MW (MPH – 2 X 55 MW; APH – 2 X 2.5 + 1 X 5 MW)
 - c. Location of Dam Axis: 25°39'57.39"N; 92°46'53.62"E
 - d. Location of MPH: 25°41'5 4.02"N; 92°48'15.98"E
 - e. Concrete Gravity Dam: Across the river Kopili at Longku
 - f. Dam Height 66.5 m
 - g. water conductor system comprising of an intake structure, head race tunnel along with surge shaft and pen stock.
 - h. **Project cost: 1031.58 Cr excluding the R&R land cost 84.33 Cr.**
 - i. **EMP cost: 26147.5077 lakh**
 - j. **CER cost: 5.81 Cr**

xii. **The details of amendment sought is as under: -**

S. No.	Para/ details of EC issued by MoEF&CC	Details as per EC	as To be revised/ read as	Justification/ reasons

1	Dam Height (m)	70.13	66.5	El. 228.00 m – El. 162.50 m = 66.50m. Change in dam design alters consumption of construction materials (e.g., concrete) and the volume of muck generated for disposal on-site.
2	Length of the Dam (m) Total width of dam structure including overflow & non overflow blocks	345.05	335.0	As per revised arrangement of NOF and OF section.
3	No of Spillways	8	6	10 m x 12.50 m. The discharging capacity of proposed spillway arrangement is verified on the physical hydraulic model study carried out in IRI, Roorkee and gate opening was found adequate to pass the PMF at N-1 condition. Same is approved by CEA
4	HRT Diameter (m)	6.65	7.0	Diameter of HRT is increased to ensure CEA approved head losses of 6m.
5	HRT length (m)	3619.62	3641.22	As per revised arrangement.
6	Tail Race Channel width (m)	26.3	26.0	Arrangement is revised to provide better hydraulic condition at the outlet of tail race.
7	Tail Race Channel length (m)	52.0	40.0	
8	Submergence area with the Reservoir spread (Ha)	552 submergence area	552 submergence area with reservoir spread of 620 Ha	Submergence area remains same i.e. 552 Ha within the reservoir spread of 620 Ha to accommodate plantation area as per EC and FC stipulation, Reservoir rim treatment, safety area for human and wildlife, within the existing land area of 1577 ha.

Digitally Signed by: Mr Munna Kumar Shah
Member Secretary, MoEFCC (EC)
Date: 03/01/2024



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, 3rd floor, Paltanbazar, Guwahati-781 001, Assam

Akshay Talukdar
Project Director (PMU)
Chief General Manager (PP&I)
E-mail: akshay.talukdar@apgcl.org

No: APGCL/CGM(H)/W/2007/140/Pt-VII/147

Dated: 14.02.2024

To,

The Dean
College of Fisheries
Assam Agricultural University
Raha, Nagaon-782103
Email: - dean_fishery@aau.ac.in

Subject: - Work order for "Aquatic Study especially migratory aquatic species in the River Kopili in relation to the Lower Kopili Hydro Electrical Project (LKHEP) at Longku, Karbi Anglong and Dima Hasao."

Ref: Your proposal no. Tech-1/2023-24/6238 dated 09.02.2024.

Sir,

This is to inform you that APGCL pleased to award the work of Aquatic Study especially migratory aquatic species in the River Kopili in relation to the Lower Kopili Hydro Electrical Project (LKHEP) at Longku, Karbi Anglong and Dima Hasao to your esteemed institution vide your proposal mentioned under reference.

The details of works to be done is listed below: -

1. Sampling of water (Surface and ground water), sediment, fish (special emphasis on migratory species), plankton/periphyton, benthos & riparian vegetation.
2. Habitat evaluation in terms of:
 - a) Water quality Analysis
 - Physical: pH, Temperature (Air & Water), Conductivity, TDS &TSS, Turbidity
 - Chemical: Alkalinity, Hardness, BOD₃, COD, NO₃, NO₂, PO₄, Cl, SO₄, Na, K, Ca, Fe and N₂.
 - Bacteriological: MPN & Total Coliform
 - Heavy metal: Pb & As
 - Biological: Fish, Plankton (Phyto & Zoo), Periphyton, Benthos, Riparian vegetation.
 - Diversity indices: SW & Simpson
 - b) Soil sample : Texture, pH, Nutrient level.
 - c) Sediment characteristics
 - d) Flow Regime
 - e) Overall habitat complexity (Riparian vegetation)
3. Station wise identification of fish species & other biotic components.
4. Mapping of the river system based on the species composition.
5. Identification of impact zone & non-impact zone
6. Identification of breeding/nesting & feeding ground of fishes (if any)
7. Impact study on fish migration & habitat degradation due to decreased flow of water
8. Impact study on fish diversity due to hydrological alteration (Based on flow characterization- primary & secondary data)

9. Study on occurrence of Gangetic Dolphin in the project impact zone (if any)
10. Habitat restoration with respect to water quality.
11. Food web diagram
12. Conservation strategy & habitat restoration
13. Mitigation measures.

(** Samples to be analyzed in triplicates)

Deliverables:

1. List of fish species including migratory species
2. Data on plankton, periphyton, benthos & riparian vegetation in all the study stations.
3. Habitat characterisation report
4. Mapping of the river system based on the fish species composition and food web diagram
5. Identification of fish breeding & nesting ground (Habitat characterisation)
6. Impact study reports
7. Fisheries conservation management, mitigation plan & recommendation.
8. Reports:
 - Inception Report – Feb, 2024
 - Draft Report – 15th May, 2024
 - Final Report – 31st May, 2024

The financial involvement for the above study is detailed here-under-

Sl. No.	Particulars	Rate (Rs.)	Amount (Rs.)
1.	Collection of samples (Cost of netting, boating, labour engagement etc.)	Rs.35,000 x 12 samplings days	4,20,000.00
2.	Consumables/small apparatus etc.	-	8,00,000.00
3.	Travel (Hiring of vehicle & TA/DA)	-	1,65,000.00
4.	Contingency	10% of (Sl. No. 1+2+3)	1,38,500.00
5.	Institutional charge	10% of (Sl. No. 1+2+3)	1,38,500.00
Total			16,62,000.00

(Rupees Sixteen Lakh Sixty-Two Thousand only)


Payment Terms: -

1. 30% (of Sl. No.1,2,4 & 5) will be paid after submission of inception report.
2. 20% (of Sl. No.1,2,4 & 5) will be paid after submission of draft final report.
3. 45% (of Sl. No.1,2,4 & 5) will be paid after submission and acceptance of final report.
4. Remaining 5% will be paid after meeting the queries raised by concerned authorities.
5. Travel expenses & DA at actual will be paid up to a maximum of 1,65,000.00 for the entire study period.

The undersigned would like to request you to kindly accept work order and mobilize your team as timeline shared by you vide your proposal.

Thanking You,

Yours sincerely,



Project Director,
120MW Lower Kopili Hydro Electric Project.
APGCL.

Memo no.- APGCL/CGM(H)/W/2007/140/Pt-VII/147

Dated: 14.02.2024

Copy to: -

1. The Managing Director, APGCL, Bijulee Bhawan, for favour of his kind information.
2. The Chief General Manager (F & A), APGCL, Bijulee Bhawan, for kind information.
3. The Relevant File.



Project Director,
120MW Lower Kopili Hydro Electric Project.
APGCL.



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, 3rd floor, Paltanbazar, Guwahati-781 001, Assam

Shri Saurav Saikia
Chief General Manager (Hydro & Civil)
E-mail: cgmh2010@yahoo.in

Letter No: APGCL/CGM (H)/W/2007/140/Part-VII/114

Date: 21/11/2023

To,

The Director,
cum Member Secretary of EAC
IA-I Division
Ministry of Environment, Forest and Climate Change
New Delhi-11003

Sub: Submission of Undertaking that R&R scenario / habitat of flora and fauna of project are not change due to modification of the project components under Lower Kopili HEP, 120 MW

Ref: Minute of the EAC meeting of MoEF&CC held on 26.10.2023, proposal No. IA/AS/RIV/441844/2023

Sir,

With reference to the above, and in response to the minute of the EAC meeting, it is to mention herewith that the R&R scenario / habitat of flora and fauna of project will not be changed due to modification of the project components. As the changes are made due to detail engineering design which will not create any additional impact on the biotic community within the long-term leased area of 1577 Ha under Lower Kopili HEP, 120 MW. Moreover, necessary protective and conservative measures will be adhered as per norms.

This is for favour of your kind compliance of your stipulation as per reference cited above.

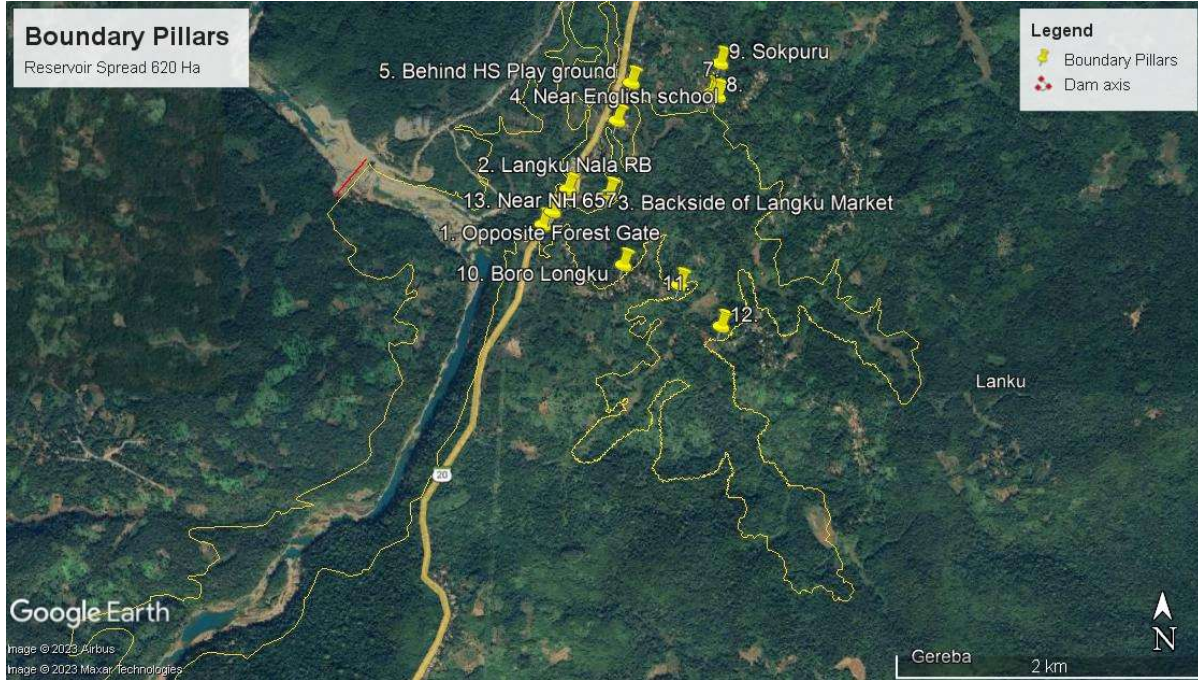
Your Sincerely,

Chief General Manager (Hydro & Civil) i/c.
APGCL, Bijulee Bhawan


Copy to:

1. The OSD to Chairman, APGCL-for kind information to the Hon'ble Chairman
2. The OSD to Managing Director, APGCL-for kind information to the MD, APGCL
3. Relevant file

Annexure 7 : Map of Reservoir spread boundary



Annexure 8 : Letter of handing over of 10 camera trap with accessories

 **ASSAM POWER GENERATION CORPORATION LIMITED**
Registered Office: Bijulee Bhawan, 3rd floor, Paltanbazar, Guwahati-781 001, Assam

Akshay Talukdar
Project Director (PMU)
Email: akshay.talukdar@apgcl.org

No: APGCL/CGM(H)/W/2007/140/Pt-VII/164 Dated: 29.05.2024

To,
The Asst. Conservator of Forests,
Dima Hasao West Division
O/o DFO, Dima Hasao West Division
Dima Hasao, Haflong

Sub: Handing over of 10 (ten) numbers of Camera traps.

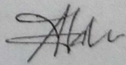
Ref: 1. APGCL letter no: APGCL/CGM(H)/W/2007/140/Pt-VII/158 dated 08.05.2024
2. Minutes of the 2nd Biodiversity Management Committee meeting held on 21.06.2023

Sir,

With reference to the subject cited above, the undersigned would like hand over 10 (ten) numbers of Camera traps that are to be installed in and around the Lower Kopili Hydro Electric Project area for the monitoring of the terrestrial fauna. This will greatly help forest department for monitoring the terrestrial wildlife in the area.

After installation findings may be shared with APGCL monthly for onward submission to MoEFCC as per EC compliance.

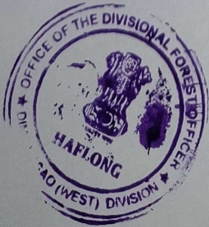
Your kind cooperation for the above-mentioned matter is highly solicited.

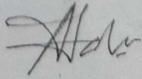
Yours sincerely,

Project Director, (PMU)
APGCL, Bijulee Bhawan, Ghy-1
Dated: 29.05.2024

Memo no: APGCL/CGM(H)/W/2007/140/Pt-VII/164(a)
Copy to:

1. The Chief Conservator of Forests, Dima Hasao District, for kind information.
2. The Project Manager, LKHEP-for information and needful action.
3. Relevant File.

*Received
P
13/06/24*

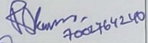


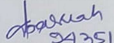




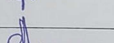




Project Director, (PMU)
APGCL, Bijulee Bhawan, Ghy-1

Annexure 9 : Attendance sheet of the meeting with Dima Hasao Autonomous Council for appraisal of water level at Panimur due to dam operation

ATTENDANCE SHEET ON


Meeting on 13-06-2024 (Thursday) at 2.00 PM at Officers Conference Hall of DHAC, Haflong in connection with fluctuation of water levels at Panimur during operation of 120 MW, LKHEP.

Sl. No.	Name	Designation	Signature
1	Ranjit Kangtra	Secy. NCHAC	 7002764210
2	Rabin Das.	AGM (Civil)	 8638295411
3	Sankar Bhowadanya	DM (Civil)	 8399040452
4	Dr Deepak Baruah	Env. Expert-	 3435113521
5	H. Noriame	Secy. NCHAC	
6	Nirmendu Kemprai	Deputy Director of Tourism, Haflong	
7	Bhobajith Kemprai	Asst. Engineer	
8	Tuhin Langthasa	D.F.O DHAC	
9	Binoli Ghoni	S. Development.	
10	Jayanta Das	Env. Exp. AFRY	 Jayanta
11			
12			
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Annexure 10 : Test Reports of Air, Water Noise

Noise Monitoring Results

Test Results of CP-1



n-vision
Enviro Technologies North East
Technologies for better tomorrow



TC-7569

Recognized by Pollution Control Board, Assam

TEST REPORT

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. ANLMR_1503282_01_268	Date: 31/08/2023
Sample ID: EETNE/AUG/06/23	ULR NO.: TC76692300000051F


Issued to : M/s. BVG India Ltd. Midas Tower 4th Floor, Rajiv Gandhi Infotech Park, Phase 1- Hinjawani, Pune-411057

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE (Latitude and Longitude)	NOISE LEVEL in dB(A) Leq	
			Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
i)	23/08/23	Package 1 Lat N 25°88'03.52" Long E 92°80'49.47"	57.2	40.6


Remarks: Noise level is carried out during 75% of the Day Time & Night Time.
Method of analysis : IS 9989 : 1981 RA : 2014
Sampling Instrument Used : SLM100 SLNO484-I-22, SLM 100 (213 DTC-2013)

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Ambient Noise Standards:



Khafzul Islam Sheikh
(Environmental Chemist)



FOR ENVISION ENVIRO TECHNOLOGIES NORTH EAST, GUWAHATI
Utpal Bezbaruah
(Technical Manager)
Authorized Signatory /Reviewed by

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
-iii) Monitoring is performed twice a week in each location.

-----END OF REPORT-----

Page 1 of 1

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmani, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envisionghy@gmail.com

Noise Monitoring Results of CP-2



TC-7669

AMBIENT AIR ANALYSIS REPORT			TESTREPORT		
Rep.No. AAAR_1503163_01_394(B)			Date: 11/12/2023		
Sample ID: EETNE/NOV/07(B)/23			ULR NO.: TC76692300000085(B)F		
Issued to : M/s. Lower Kopili HEP Project, Lanku, Dist.- Dima Hasao, Assam.					
Sample Drawn By : UTPAL BEZBARUAH					
Sampling Plan & Procedure : EETNE/SOP/01					
Analysis Duration : 28/11/23 TO 02/12/23, 29/11/23 TO 03/12/23, 30/11/23 TO 04/12/23					
			01/12/23 TO 05/12/23, 02/12/23 TO 06/12/23		
			03/12/23 TO 07/12/23, 04/12/23 TO 08/12/23, 05/12/23 TO 09/12/23		
Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS/CO Monitor/HC gas Monitor					
Pollution Control Device, if any : NO					

SL. NO	DATE OF SAMPLING	LOCATION/SOURCE (Latitude & Longitude)	WEATHER	PARAMETERS					
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	HC (mg/m ³)	CO (mg/m ³)	SO ₂ (µg/m ³)
i)	28/11/23	Power Inlet / Dam Site Lat N 25°39'57.39" Long E 92°46'53.62"	Clear	36.2	24.5	15.6	BDL	BDL	10.9
ii)	29/11/23	Crusher Site Lat N 25°40'37.79" Long E 92°47'43.13"		52.7	30.7	18.6	0.03	0.06	12.9
iii)	30/11/23	HRT Adit Lat N 25°40'47.89" Long E 92°48'9.67"		35.2	17.9	12.1	BDL	BDL	9.2
iv)	01/12/23	Primary Hospital Near APGCL Camp Lat N 25°39'59.93" Long E 92°47'45.52"		30.7	21.5	11.6	BDL	BDL	10.6
v)	02/12/23	Batching plant Lat N 25°41'45.31" Long E 92°48'39.79"		35.2	25.7	15.8	BDL	BDL	9.8
vi)	03/12/23	Surge Shaft Site Lat N 25°41'29.28" Long E 92°48'16.47"		32.9	24.7	14.7	BDL	BDL	11.6
vii)	04/12/23	Labour & Staff Camp Lat N 25°40'54.97" Long E 92°48'9.67"		33.8	20.1	13.6	BDL	BDL	9.7
viii)	05/12/23	Power house Lat N 25°41'54.02" Long E 92°46'53.62"		36.7	24.6	11.7	BDL	BDL	9.8


Remarks: - Sampling were done within the annual based.

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Average	Weighted	Concentration in Ambient Air	
					Industrial, Residential, Rural and Other Area	
1	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/ CPCB	Annual		60	
				24 hours		100
2	Particulate Matter (PM _{2.5}), µg/m ³	EETNE/SOP/01/2017	Annual		40	
				24 hours		60
3	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/ CPCB	Annual		40	
				24 hours		80
4	Carbon Monoxide (CO), mg/m ³		8 Hours		2.0	
5	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II/ CPCB	Annual		50	
				24 hours		80


 Khairul Islam Sheikh
 (Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati


 Utpal Bezbaruah
 (Technical Manager)
 Authorized Signatory /Reviewed by

- Note: i) Tests undertaken twice a week in each location.
 ii) The results relate only to the parameters tested.
 iii) The test report shall not be reproduced except in full, without written approval of laboratory.

----- END OF REPORT -----

Noise Monitoring of CP-3



TC-7669

Recognized by Pollution Control Board, Assam

TEST REPORT

AMBIENT NOISE LEVEL MEASUREMENT REPORT

Rep.No. ANLMR_1503163_06A_277
Sample ID: EETNE/AUG/11/23

Date: 31/08/2023
ULR NO.: TC766923000000856F

Issued to : M/s. Andritz Hydro Pvt. Ltd., LKHEP Project, village – Longku, Dist. Dima Hasao,
Pin - 788931

SL. NO.	DATE OF SAMPLING	LOCATION /SOURCE (Latitude and Longitude)	NOISE LEVEL in dB(A)Leq	
			Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
i)	26/08/23	Near Service Bay	60.9	47.9
ii)	27/08/23	Near Valve House	57.2	42.9
iii)	28/08/23	Near Project Camp	58.3	46.7

Remarks: Noise level is carried out during 75% of the Day Time & Night Time.
Method of analysis : CPCB July 2015 guideline.
Sampling Instrument Used : SLM100 SLNO484-I-22, SLM 100 (213 DTC-2013)

Ambient Noise Standards:

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40


Khairul Islam Sheikh
(Environmental Chemist)


Utpal Bezbaruah
(Technical Manager)
Authorized Signatory /Reviewed by

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Monitoring is performed twice a week in each location.

-----END OF REPORT-----

Noise Monitoring of CP-4



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफिक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রাডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



TC-10736

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

ULR Number: TC1073623000000718F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Noise Level	Location: Near Lalungdubi Gaon
Date of Sample on: 23/12/2023	(latitude: 25.891238°N, longitude: 92.922180°E)
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Method	Unit	Result
1	LeqdB (A) Day	IS: 9989: 1981(Reaff:2014)	dB(A)	39.2
2	Leq dB (A) Night	IS: 9989: 1981(Reaff:2014)	dB(A)	34.7
Ambient Noise Standards:				
	Area Code	Category of Area	Limit in dB(A) Leq Day time Night time	
	A.	Industrial area	75 70	
	B.	Commercial area	65 55	
	C.	Residential area	55 45	
	D.	Silence Zone	50 40	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাথ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



TC-10736

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

ULR Number: TC1073623000000719F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Noise Level	Location: Near 37/1
Date of Sample on: 23/12/2023	(latitude: 25.854547°N, longitude: 92.92056°E)
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Method	Unit	Result
1	LeqdB (A) Day	IS: 9989: 1981(Reaff:2014)	dB(A)	42.1
2	Leq dB (A) Night	IS: 9989: 1981(Reaff:2014)	dB(A)	36.3
Ambient Noise Standards:				
	Area Code	Category of Area	Limit in dB(A) Leq Day time Night time	
	A.	Industrial area	75	70
	B.	Commercial area	65	55
	C.	Residential area	55	45
	D.	Silence Zone	50	40

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut | Sarmah (TM)



Mayur Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ চাইনিক্যাল চার্জিটচ
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাৰা, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951



TEST REPORT

ULR Number: TC1073623000000720F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Noise Level	Location: Near 58/0
Date of Sample on: 24/12/2023	(latitude: 25.852443°N, longitude: 92.926585°E)
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Method	Unit	Result
1	LeqdB (A) Day	IS: 9989: 1981 (Reaff:2014)	dB(A)	43.3
2	Leq dB (A) Night	IS: 9989: 1981 (Reaff:2014)	dB(A)	37.5
Ambient Noise Standards:				
	Area Code	Category of Area	Limit in dB(A) Leq Day time Night time	
	A.	Industrial area	75	70
	B.	Commercial area	65	55
	C.	Residential area	55	45
	D.	Silence Zone	50	40

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইনিটিক চার্জিচ
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রৈডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951



TEST REPORT

ULR Number: TC107362300000721F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Noise Level	Location: Near 87/0
Date of Sample on: 24/12/2023	(latitude: 25.69671°N, longitude: 92.806532°E)
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Method	Unit	Result
1	LeqdB (A) Day	IS: 9989: 1981(Reaff:2014)	dB(A)	42.2
2	Leq dB (A) Night	IS: 9989: 1981(Reaff:2014)	dB(A)	34.1
Ambient Noise Standards:				
	Area Code	Category of Area	Limit in dB(A) Leq Day time Night time	
	A.	Industrial area	75	70
	B.	Commercial area	65	55
	C.	Residential area	55	45
	D.	Silence Zone	50	40

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক চার্জিফেচ
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাৰ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

Phone: 98640 68513, 98640 89951



TEST REPORT

ULR Number: TC1073623000000722F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Noise Level	Location: Near AP 1/0
Date of Sample on: 24/12/2023	(latitude: 25.985313°N, longitude: 92.924824°E)
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Method	Unit	Result
1	LeqdB (A) Day	IS: 9989: 1981(Reaff:2014)	dB(A)	59.2
2	Leq dB (A) Night	IS: 9989: 1981(Reaff:2014)	dB(A)	47.8
Ambient Noise Standards:				
	Area Code	Category of Area	Limit in dB(A) Leq Day time Night time	
	A.	Industrial area	75	70
	B.	Commercial area	65	55
	C.	Residential area	55	45
	D.	Silence Zone	50	40

Note: The results relate to the parameter tested only.

-----End of Report-----


For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)




Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)

Air Quality Monitoring – CP-1



en-vision
Enviro Technologies North East
Technologies for better tomorrow



TC-7559

Recognized by Pollution Control Board, Assam

TESTREPORT

AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR_1503282_01_267 Date: 31/08/2023
 Sample ID: EETNE/AUG/06/23 ULR NO.: TC756923000000051F
 Issued to : M/s. BVG India Ltd. Midas Tower 4th Floor, Rajiv Gandhi Infotech Park, Phase 1-
 Hinjawani,Pune-411057


Sample Drawn By : UTPAL BEZBARUAH
 Sampling Plan & Procedure : EETNE/SOP/01
 Analysis Duration : 23/08/23 TO 31/08/23
 Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS
 Pollution Control Device, if any : NO

SL. NO.	DATE OF SAMPLING	LOCATION/SOURCE (Latitude & Longitude)	WEATHER	PARAMETERS					
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	HC (mg/m ³)	CO (mg/m ³)	SO ₂ (µg/m ³)
1)	23/08/23	Package 1 Lat 25°88'03.52" N Long 92°80'49.47" E	Clear	40.5	31	16.7	BDL	BDL	9.5

Remarks: - Sampling were done within the 24hrs


NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Weighted Average	Concentration Ambient Air in Industrial, Residential, and Other Area	Rural
1	Particulate Matter (PM ₁₀), µg/m ³	IS:5182 Part-XXIII/ CPCB	Annual	60	
			24 hours	100	
2	Particulate Matter (PM _{2.5}), µg/m ³	EETNE/SOP/01/2017	Annual	40	
			24 hours	60	
3	Nitrogen Dioxide (NO ₂), µg/m ³	IS:5182 Part-VI/ CPCB	Annual	40	
			24 hours	80	
4	Carbon Monoxide (CO), mg/m ³		8 Hours	2.0	
5	Sulphur Dioxide (SO ₂), µg/m ³	IS:5182 Part-II/ CPCB	Annual	50	
			24 hours	80	



Khairul Islam Sheikh
(Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati



Utpal Bezbaruah
(Technical Manager)
Authorized Signatory /Reviewed by

Note: i) The results relate to the tested parameters & items sample.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.

Page 1 of 1

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmart, Guwahati-781003, Assam.
 Phone : +91 98540 10097 / 70028 10116 ♦ e-mail : envisionghy@gmail.com

Air quality Monitoring – CP-2



TEST REPORT

TC-7669

AMBIENT AIR ANALYSIS REPORT

Rep.No. AAAR_1503163_01_394(B)

Date: 11/12/2023

Sample ID: EETNE/NOV/07(B)/23

ULR NO.: TC76692300000085(B)F

Issued to : M/s. Lower Kopili HEP Project, Lanku, Dist.- Dima Hasao, Assam.

Sample Drawn By : UTPAL BEZBARUAH

Sampling Plan & Procedure : EETNE/SOP/01

Analysis Duration : 28/11/23 TO 02/12/23, 29/11/23 TO 03/12/23, 30/11/23 TO 04/12/23
01/12/23 TO 05/12/23, 02/12/23 TO 06/12/23

Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS/CO Monitor/HC gas Monitor

Pollution Control Device, if any : NO

SL. NO	DATE OF SAMPLING	LOCATION/SOURCE (Latitude & Longitude)	WEATHER	PARAMETERS					
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	HC (mg/m ³)	CO (mg/m ³)	SO ₂ (µg/m ³)
i)	28/11/23	Power Inlet / Dam Site Lat N 25°39'57.39" Long E 92°46'53.62"	Clear	36.2	24.5	15.6	BDL	BDL	10.9
ii)	29/11/23	Crusher Site Lat N 25°40'37.79" Long E 92°47'43.13"		52.7	30.7	18.6	0.03	0.06	12.9
iii)	30/11/23	HRT Adit Lat N 25°40'47.89" Long E 92°48'9.67"		35.2	17.9	12.1	BDL	BDL	9.2
iv)	01/12/23	Primary Hospital Near APGCL Camp Lat N 25°39'59.93" Long 92°47'45.52"		30.7	21.5	11.6	BDL	BDL	10.6
v)	02/12/23	Batching plant Lat 25°41'45.31" Long 92°48'39.79"		35.2	25.7	15.8	BDL	BDL	9.8
vi)	03/12/23	Surge Shaft Site Lat 25°41'29.28" Long 92°48'16.47"		30.3	24.7	14.7	BDL	BDL	11.6
vii)	04/12/23	Labour & Staff Camp Lat 25°40'54.97" Long 92°48'9.67"		35.7	20.1	13.0	BDL	BDL	9.7
viii)	05/12/23	Power house Lat 25°41'54.02" Long 92°46'53.62"		36.7	24.6	11.7	BDL	BDL	9.8

Remarks: - Sampling were done within the annual based.



TC-7669

NATIONAL AMBIENT AIR QUALITY STANDARDS:

Sl. No.	Pollutant	Test Method	Time Average	Weighted	Concentration in Ambient Air	
					Industrial, Residential, Rural and Other Area	
1	Particulate Matter (PM ₁₀), $\mu\text{g}/\text{m}^3$	IS:5182 Part-XXIII/ CPCB	Annual		60	
				24 hours	100	
2	Particulate Matter (PM _{2.5}), $\mu\text{g}/\text{m}^3$	EETNE/SOP/01/2017	Annual		40	
				24 hours	60	
3	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-VI/ CPCB	Annual		40	
				24 hours	80	
4	Carbon Monoxide (CO), mg/m^3		24 hours		2.0	
5	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	IS:5182 Part-II/ CPCB	Annual		50	
				24 hours	80	


 Khairul Islam Sheikh
 (Environmental Chemist)

For Envision Enviro Technologies North East, Guwahati

 Utpal Bezbaruah
 (Technical Manager)
 Authorized Signatory / Reviewed by

- Note: i) Tests undertaken twice a week in each location.
 ii) The results relate only to the parameters tested.
 iii) The test report shall not be reproduced except in full, without written approval of laboratory.



----- END OF REPORT -----

Air Quality Monitoring -CP-3



Recognized by Pollution Control Board, Assam

TC-7669

TESTREPORT									
AMBIENT AIR ANALYSIS REPORT					Date: 31/08/2023				
Rep.No. AAAR_1503163_01_276					ULR NO.: TC766923000000056F				
Sample ID: EETNE/AUG/11/23									
Issued to : M/s. Andritz Hydro Pvt. Ltd., LKHEP Project, village – Longku, Dist. Dima Hasao, Pin - 788931									
Sample Drawn By : UTPAL BEZBARUAH Sampling Plan & Procedure : EETNE/SOP/01 Analysis Duration : 25/08/23 TO 29/08/23, 26/08/23 TO 30/08/23, 27/08/23 TO 31/08/23 Sampling Instrument Used : AMBIENT AIR SAMPLER/RDS Pollution Control Device, if any : NO									
SL NO	DATE OF SAMPLING	LOCATION/SOURCE (Latitude & Longitude)	WEATHER	PARAMETERS					
				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	NO ₂ (µg/m ³)	HC (mg/m ³)	CO (mg/m ³)	SO ₂ (µg/m ³)
i)	25/08/23	Near Service Bay	Clear	38.9	23.4	13.9	BDL	BDL	9.8
ii)	26/08/23	Near valve house		39.7	28.6	14.6	BDL	BDL	9.8
iii)	27/08/23	Near project Camp		37.9	26.7	13.4	BDL	BDL	8.1
Remarks: - Sampling were done within the annual based. NATIONAL AMBIENT AIR QUALITY STANDARDS:									
Sl. No.	Pollutant		Test Method	Time Average	Weighted	Concentration in Ambient Air Industrial, Residential, Rural and Other Area			
1	Particulate Matter (PM ₁₀), µg/m ³		IS:5182 Part-XXIII/ CPCB	Annual	24 hours	60			
						100			
2	Particulate Matter (PM _{2.5}), µg/m ³		EETNE/SOP/01/2017	Annual	24 hours	40			
						60			
3	Nitrogen Dioxide (NO ₂), µg/m ³		IS:5182 Part-VI/ CPCB	Annual	24 hours	40			
						80			
4	Carbon Monoxide (CO), mg/m ³			8 Hours		2.0			
5	Sulphur Dioxide (SO ₂), µg/m ³		IS:5182 Part-II/ CPCB	Annual	24 hours	50			
						80			
For Envision Enviro Technologies North East, Guwahati									
 Khairul Islam Sheikh (Environmental Chemist)					 Utpal Bezbaruah (Technical Manager) Authorized Signatory /Reviewed by				
Note: i) Tests undertaken twice a week in each location. ii) The results relate only to the parameters tested. iii) The test report shall not be reproduced except in full, without written approval of laboratory.									

Page 1 of 1

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Air Quality Monitoring -CP-4



ABNS SCIENTIFIC SERVICES

এবিএনএচ চাইনিক্যাল সার্ভিসেস
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

ULR Number: TC107362300000714F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near 37/1 Location category: Rural	Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Location	Near 37/1			latitude	longitude
Date of sampling	23/12/2023			25.848898°N	92.946102°E
				Weather	Clear
SI No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
1.	Particulate Matter (<10um)	µg/m ³	91.0	100	IS 5182: Part 23:2006 (Reaff. 2012)
2.	Particulate Matter (<2.5um)	µg/m ³	53.0	60	Lab SOP.Doc.NO. TPM/ABNS/E/5/D
3.	Sulphur Dioxide (SO ₂)	µg/m ³	10.28	80	IS 5182 : Part 2 :2001 (Reaff.2012)
4.	Oxides of Nitrogen (NO _x)	µg/m ³	24.9	80	IS 5182 : Part 6 :2006 (Reaff.2012)
5.	Ozone (O ₃)	µg/m ³	36.0	180	IS 5182 : Part 9 :1974 (Reaff.2019)
6.	Ammonia (NH ₃)	µg/m ³	35.0	400	IS 5182 : Part 25 :2018

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রৈডিসন ব্লু কে পাৰা, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

Report Number: ABNS/EM/123123/17	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near 37/1 Location category: Rural	Date of sampling: 23/12/2023 Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
7.	Carbon Monoxide (CO)	mg/m ³	0.25	2	IS 5182 : Part 10 :1999 (Reaff.2014) (NDIR)
8.	Lead (Pb)	µg/m ³	BDL	1	IS 5182 : Part 22 :2004 (Reaff.2019)
9.	Nickel (Ni)	ng/m ³	2.76	20	USEPA-103.4
10.	Arsenic (As)	ng/m ³	0.27	6	USEPA-103.4
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5	IS:5182(Part-11):2006 Reaff : 2012
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	1	IS:5182(Part-12):2004 Reaff: 2014

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চায়েন্টিফিক সার্ভিসেস
एवीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ब्लু কে पास, एन एडच २७, गुवाहाटी ७८१०३३, असम



TC-10736

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TEST REPORT

ULR Number: TC1073623000000715F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near 58/0 Location category: Rural	Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Location	Near 58/0				latitude	longitude
Date of sampling	23/12/2023				25.750729°N	92.897825°E
					Weather	Clear
Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD	
1.	Particulate Matter (<10um)	µg/m ³	95.0	100	IS 5182: Part 23:2006 (Reaff. 2012)	
2.	Particulate Matter (<2.5um)	µg/m ³	56.0	60	Lab SOP.Doc.NO. TPM/ABNS/E/5/D	
3.	Sulphur Dioxide (SO ₂)	µg/m ³	8.59	80	IS 5182 : Part 2 :2001 (Reaff.2012)	
4.	Oxides of Nitrogen (NO _x)	µg/m ³	28.3	80	IS 5182 : Part 6 :2006 (Reaff.2012)	
5.	Ozone (O ₃)	µg/m ³	42.0	180	IS 5182 : Part 9 :1974 (Reaff.2019)	
6.	Ammonia (NH ₃)	µg/m ³	37.0	400	IS 5182 : Part 25 :2018	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইনিটিক চাৰ্ভিচ
एवीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাस, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

Report Number: ABNS/EM/123123/18	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near 58/0 Location category: Rural	Date of sampling: 23/12/2023 Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
7.	Carbon Monoxide (CO)	mg/m ³	0.29	2	IS 5182 : Part 10 :1999 (Reaff.2014) (NDIR)
8.	Lead (Pb)	µg/m ³	BDL	1	IS 5182 : Part 22 :2004 (Reaff.2019)
9.	Nickel (Ni)	ng/m ³	4.17	20	USEPA-103.4
10.	Arsenic (As)	ng/m ³	0.38	6	USEPA-103.4
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5	IS:5182(Part-11):2006 Reaff : 2012
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	1	IS:5182(Part-12):2004 Reaff.: 2014

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইনিটিক সার্ভিসেস
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam
কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



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TEST REPORT

ULR Number: TC1073623000000716F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR	Analysis Start Date: 26/12/2023
Sampling Location: Near 87/0	Analysis End Date: 30/12/2023
Location category: Rural	
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Location	Near 87/0		latitude	longitude	
			25.696654°N	92.806566°E	
Date of sampling	23/12/2023		Weather	Clear	
Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
1.	Particulate Matter (<10um)	µg/m ³	86.0	100	IS 5182: Part 23:2006 (Reaff. 2012)
2.	Particulate Matter (<2.5um)	µg/m ³	54.0	60	Lab SOP.Doc.NO, TPM/ABNS/E/5/D
3.	Sulphur Dioxide (SO ₂)	µg/m ³	9.16	80	IS 5182 : Part 2 :2001 (Reaff.2012)
4.	Oxides of Nitrogen (NO _x)	µg/m ³	27.5	80	IS 5182 : Part 6 :2006 (Reaff.2012)
5.	Ozone (O ₃)	µg/m ³	39.0	180	IS 5182 : Part 9 :1974 (Reaff.2019)
6.	Ammonia (NH ₃)	µg/m ³	51.0	400	IS 5182 : Part 25 :2018

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইনিটিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রৈডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/19	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near 87/0 Location category: Rural	Date of sampling: 23/12/2023 Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
7.	Carbon Monoxide (CO)	mg/m ³	0.22	2	IS 5182 : Part 10 :1999 (Reaff.2014) (NDIR)
8.	Lead (Pb)	µg/m ³	BDL	1	IS 5182 : Part 22 :2004 (Reaff.2019)
9.	Nickel (Ni)	ng/m ³	3.61	20	USEPA-103.4
10.	Arsenic (As)	ng/m ³	0.23	6	USEPA-103.4
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5	IS:5182(Part-11):2006 Reaff : 2012
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	1	IS:5182(Part-12):2004 Reaff.: 2014

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023

Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ চাইন্টিফিক চার্জিচেচ
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রাডিসন ব্লু কে পাথ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

ULR Number: TC1073623000000717F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near AP 1/0 Location category: Rural	Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Location	Near AP 1/0				latitude	longitude
Date of sampling	23/12/2023				25.696654°N	92.806566°E
					Weather	Clear
Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD	
1.	Particulate Matter (<10um)	µg/m ³	92.0	100	IS 5182: Part 23:2006 (Reaff. 2012)	
2.	Particulate Matter (<2.5um)	µg/m ³	48.0	60	Lab SOP.Doc.NO. TPM/ABNS/E/S/D	
3.	Sulphur Dioxide (SO ₂)	µg/m ³	7.96	80	IS 5182 : Part 2 :2001 (Reaff.2012)	
4.	Oxides of Nitrogen (NO _x)	µg/m ³	28.3	80	IS 5182 : Part 6 :2006 (Reaff.2012)	
5.	Ozone (O ₃)	µg/m ³	38.0	180	IS 5182 : Part 9 :1974 (Reaff.2019)	
6.	Ammonia (NH ₃)	µg/m ³	46.0	400	IS 5182 : Part 25 :2018	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023

Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইনিক্যাল সার্ভিসেস
এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/20	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Near AP 1/0 Location category: Rural	Date of sampling: 23/12/2023 Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
7.	Carbon Monoxide (CO)	mg/m ³	0.30	2	IS 5182 : Part 10 :1999 (Reaff.2014) (NDIR)
8.	Lead (Pb)	µg/m ³	BDL	1	IS 5182 : Part 22 :2004 (Reaff.2019)
9.	Nickel (Ni)	ng/m ³	5.07	20	USEPA-103.4
10.	Arsenic (As)	ng/m ³	0.41	6	USEPA-103.4
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5	IS:5182(Part-11):2006 Reaff : 2012
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	1	IS:5182(Part-12):2004 Reaff.: 2014

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam
কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



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TEST REPORT

ULR Number: TC1073623000000713F	Report date: 31/12/2023
Name & Address of the Customer:	
M/S SALASAR TECHNO ENGINEERING LIMITED	
2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR,	
LALGANESH GUWAHATI, KAMPUP(M),	
GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR	Analysis Start Date: 26/12/2023
Sampling Location: Lalungdubi Gaon	Analysis End Date: 30/12/2023
Location category: Rural	
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Location	Near Lalungdubi Gaon			latitude	longitude
				25.90285°N	92.942726°E
Date of sampling	23/12/2023			Weather	Clear
Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
1.	Particulate Matter (<10um)	µg/m ³	83.0	100	IS 5182: Part 23:2006 (Reaff. 2012)
2.	Particulate Matter (<2.5um)	µg/m ³	50.0	60	Lab SOP.Doc.NO. TPM/ABNS/E/5/D
3.	Sulphur Dioxide (SO ₂)	µg/m ³	7.3	80	IS 5182 : Part 2 :2001 (Reaff.2012)
4.	Oxides of Nitrogen (NO _x)	µg/m ³	21.9	80	IS 5182 : Part 6 :2006 (Reaff.2012)
5.	Ozone (O ₃)	µg/m ³	42.0	180	IS 5182 : Part 9 :1974 (Reaff.2019)
6.	Ammonia (NH ₃)	µg/m ³	32.0	400	IS 5182 : Part 25 :2018

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইনিক্যাল সার্ভিসেস
एबीएनएस साइंटिफिक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাৰ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/16	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: AMBIENT AIR Sampling Location: Lalungdubi Gaon Location category: Rural	Date of sampling: 23/12/2023 Analysis Start Date: 26/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl No	Parameters	Unit	RESULT	LIMIT	TEST METHOD
7.	Carbon Monoxide (CO)	mg/m ³	0.19	2	IS 5182 : Part 10 :1999 (Reaff.2014) (NDIR)
8.	Lead (Pb)	µg/m ³	BDL	1	IS 5182 : Part 22 :2004 (Reaff.2019)
9.	Nickel (Ni)	ng/m ³	2.02	20	USEPA-103.4
10.	Arsenic (As)	ng/m ³	0.31	6	USEPA-103.4
11.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5	IS:5182(Part-11):2006 Reaff : 2012
12.	Benzo(a)Pyrene (BaP)	ng/m ³	BDL	1	IS:5182(Part-12):2004 Reaff.: 2014

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)

Surface water Monitoring Results

Surface water Monitoring results CP-2



RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TC-7669

TEST REPORT:

Report No: 231211_1503163_01
 ULR No: TC76692300000169P
 Sample ID No: EETNE/DEC/01/23
 Test Starting Date: 04/12/2023

Date of Report: 11/12/23
 Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water (Dam Site)			Source: Kopili River		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 29/11/2023	Time 12:15 P.M	Temperature 28°C	pH 7.3	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.92	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	2.8	IS 3025 (Part 4)	5
3	TDS	mg/L	114	IS 3025 (Part 16)	2000
4	TSS	mg/L	83.6	IS 3025 (Part 18)	-----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	-----
6	Dissolved Oxygen	mg/L	5.3	APHA 23 rd Edition 2017,4500-O C,Page:4-146	-----
7	Total hardness	mg/L	85.1	IS 3025 (Part 21)	600
8	Calcium	mg/L	36.8	IS 3025 (Part 40)	200
9	Magnesium	mg/L	19.4	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	27.6	IS 3025 (Part 23)	600
11	Sulphate	mg/L	10.4	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	7.3	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	-----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	-----

Page 1 of 2

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Mobile : +91 98592 32126 / 68110 96201 ♦ e-mail : envisionghy@gmail.com

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM


Sample ID No: EETNE/DEC/01/23
Test Starting Date: 04/12/2023


Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

SI No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.3	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	106.5	APHA 23 rd Edition 2017, 2510B, Page: 2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page: 3-36	0.05 *
17	Iron(as Fe)	mg/L	0.32	APHA 23 rd Edition 2017, 3500-Fe B, Page: 3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page: 9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page: 9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	5.3	APHA 23 rd Edition 2017, 5210 B, Page: 5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	24	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory
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End of report

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TEST REPORT:

Report No: 231211_1503163_02
 ULR No: TC766923000000170P
 Sample ID No: EETNE/DEC/02/23
 Test Starting Date: 04/12/2023

Date of Report: 11/12/23
 Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water (1 km U/S of dam site)			Source: Kopili River		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 29/11/2023	Time 10:15 A.M	Temperature 28°C	pH 7.1	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.95	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	1.5	IS 3025 (Part 4)	5
3	TDS	mg/L	76.8	IS 3025 (Part 16)	2000
4	TSS	mg/L	48.3	IS 3025 (Part 18)	----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	----
6	Dissolved Oxygen	mg/L	5.8	APHA 23 rd Edition 2017,4500-O C,Page:4-146	----
7	Total hardness	mg/L	60	IS 3025 (Part 21)	600
8	Calcium	mg/L	24.7	IS 3025 (Part 40)	200
9	Magnesium	mg/L	13.5	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	36	IS 3025 (Part 23)	600
11	Sulphate	mg/L	27.2	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	8.5	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	----

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Sample ID No: EETNE/DEC/02/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.2	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	89.4	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05
17	Iron(as Fe)	mg/L	0.67	APHA 23 rd Edition 2017, 3500-Fe B, Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	3.9	APHA 23 rd Edition 2017, 5210 B, Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	21	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Enviro Technologies North East, Guwahati

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TC - 7669

TEST REPORT:

Report No: 231211_1503163_03
 ULR No: TC76692300000171P
 Sample ID No: EETNE/DEC/03/23
 Test Starting Date: 04/12/2023

Date of Report: 11/12/23
 Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water (1 km D/S of dam site)			Source: Kopili River		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 29/11/2023	Time 10:45 A.M	Temperature 28°C	pH 7.1	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.91	APHA 23 rd Edition 2017,4500-H* B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	2.8	IS 3025 (Part 4)	5
3	TDS	mg/L	82.7	IS 3025 (Part 16)	2000
4	TSS	mg/L	95.4	IS 3025 (Part 18)	----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	----
6	Dissolved Oxygen	mg/L	5.9	APHA 23 rd Edition 2017,4500-D C,Page:4-146	----
7	Total hardness	mg/L	86.3	IS 3025 (Part 21)	600
8	Calcium	mg/L	29.6	IS 3025 (Part 40)	200
9	Magnesium	mg/L	18.1	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	58.5	IS 3025 (Part 23)	600
11	Sulphate	mg/L	28.2	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	4.1	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	----

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Sample ID No: EETNE/DEC/03/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.3	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	102.7	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05
17	Iron(as Fe)	mg/L	0.63	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	4.8	APHA 23 rd Edition 2017,5210 B,Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	27	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By

UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
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End of report

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_04
ULR No: TC766923000000172P
Sample ID No: EETNE/DEC/04/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water (3 km D/S of dam site)			Source: Kopili River		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 29/11/2023	Time 11:05 A.M	Temperature 28°C	pH 6.9	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.73	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.3-8.5
2	Turbidity	NTU	2.1	IS 3025 (Part 4)	5
3	TDS	mg/L	36.4	IS 3025 (Part 16)	2000
4	TSS	mg/L	88.5	IS 3025 (Part 18)	---
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-47	---
6	Dissolved Oxygen	mg/L	6.9	APHA 23 rd Edition 2017,4500-O ₂ C, Page:4-146	---
7	Total hardness	mg/L	58	IS 3025 (Part 21)	600
8	Calcium	mg/L	18.4	IS 3025 (Part 40)	200
9	Magnesium	mg/L	8.7	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	36.1	IS 3025 (Part 23)	600
11	Sulphate	mg/L	27.5	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E, Page:4-199	400
12	Nitrates	mg/L	6.3	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B, Page:4-127	---
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017,4500-P D, Page no:4-163	---

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM


Sample ID No: EETNE/DEC/04/23
Test Starting Date: 04/12/2023


Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.3	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	92.6	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05 *
17	Iron(as Fe)	mg/L	0.54	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	5.7	APHA 23 rd Edition 2017,5210 B,Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	26	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

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End of report

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_05
ULR No: TC766923000000173P
Sample ID No: EETNE/DEC/05/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopilli HEP Project, Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water (8 km D/S of dam site)			Source: Kopilli River		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 29/11/2023	Time 11:25 A.M	Temperature 28°C	pH 7.2	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.73	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	2.5	IS 3025 (Part 4)	5
3	TDS	mg/L	21.6	IS 3025 (Part 16)	2000
4	TSS	mg/L	56.4	IS 3025 (Part 18)	-----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	-----
6	Dissolved Oxygen	mg/L	7.1	APHA 23 rd Edition 2017,4500-O C,Page:4-146	-----
7	Total hardness	mg/L	62.6	IS 3025 (Part 21)	600
8	Calcium	mg/L	32.5	IS 3025 (Part 40)	200
9	Magnesium	mg/L	16.8	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	106.9	IS 3025 (Part 23)	600
11	Sulphate	mg/L	21.2	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	5.3	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	-----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	-----

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Sample ID No: EETNE/DEC/05/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.3	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	118.2	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05
17	Iron(as Fe)	mg/L	0.835	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	NII	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	4.5	APHA 23 rd Edition 2017,5210 B,Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	20.6	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

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End of report

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_12
ULR No: TC766923000000180P
Sample ID No: EETNE/DEC/12/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water				Source: Adit Pond	
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 01/12/2023	Time 10:30 A.M	Temperature 28°C	pH 8.4	Quantity Drawn:2L	Sampling Method: EETNE/SOP/G2

Sl No.	Parameters	Unit	Result	Reference Method	IS 10560:2012
					Permissible Limit
1	pH	---	8.33	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	1.2	IS 3025 (Part 4)	5
3	TDS	mg/L	96.1	IS 3025 (Part 16)	2000
4	TSS	mg/L	51.7	IS 3025 (Part 18)	---
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	---
6	Dissolved Oxygen	mg/L	6.9	APHA 23 rd Edition 2017,4500-O C,Page:4-146	---
7	Total hardness	mg/L	92.4	IS 3025 (Part 21)	600
8	Calcium	mg/L	30.5	IS 3025 (Part 40)	200
9	Magnesium	mg/L	14.7	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	60.8	IS 3025 (Part 23)	600
11	Sulphate	mg/L	20.6	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	3.7	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	---
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	---

Page 1 of 2

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Sample ID No: EETNE/DEC/12/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 13500:2012
					Permissible Limit
14	Salinity	%	0.2	APHA 23 rd Edition 2017, 2526B, Page: 2-60
15	Conductivity	µS/cm	150	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05
17	Iron(as Fe)	mg/L	0.211	APHA 23 rd Edition 2017, 3500-Fe B, Page:3-80
18	Total Coliform	MPN/100	1	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	2.1	APHA 23 rd Edition 2017, 5210 B, Page:5-6/ IS 3025 (Part 44)
21	COD	mg/L	8.5	APHA 23 rd Edition 2017, 5220-E, Page No. 5-16

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Parameter no.11 to 19 are analyzed by Department of Chemistry, B. Borooah College as per our MOU.
End of report

Page 2 of 2

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_09
ULR No: TC766923000000177P
Sample ID No: EETNE/DEC/09/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water	Source: Power house Service Bay				
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 30/11/2023	Time 11:45 A.M	Temperature 28°C	pH 6.6	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.58	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-9.5
2	Turbidity	NTU	2.8	IS 3025 (Part 4)	5
3	TDS	mg/L	87.2	IS 3025 (Part 16)	2000
4	TSS	mg/L	63.1	IS 3025 (Part 18)	---
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	---
6	Dissolved Oxygen	mg/L	7.3	APHA 23 rd Edition 2017,4500-O C,Page:4-146	---
7	Total hardness	mg/L	80	IS 3025 (Part 21)	600
8	Calcium	mg/L	28.2	IS 3025 (Part 40)	200
9	Magnesium	mg/L	17.7	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	5	IS 3025 (Part 23)	600
11	Sulphate	mg/L	24.6	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	4.5	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	---
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	---

Page 1 of 2



TC-7669

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Sample ID No: EETNE/DEC/09/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.2	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	135	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05 *
17	Iron(as Fe)	mg/L	0.429	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	6.1	APHA 23 rd Edition 2017,5210 B,Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	25.5	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

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End of report

Page 2 of 2



TEST REPORT:

Report No: 230902_1503164_01
ULR No: TC766923000000116P
Sample ID No: EETNE/AUG/20/23
Test Starting Date: 26/08/2023

Date of Report: 02/09/23
Date of sample receipt: 26/08/2023
Test completion Date: 02/09/23

TC-7669

Name & Address of Client	M/s. ANDRITZ HYDRO PVT. LTD., LKHEP PROJECT,, village- longku, Dist- Dima Hasao, Pin- 788931					
Sample Description	Type: Surface Water (Service Bay)				Source: Kopili River	
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date	Time	Temperature	p ^H	Quantity Drawn:	Sampling Method:
	25/08/2023	10:45 A.M	30°C	6.71	2L	EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	p ^H	---	6.42	APHA 23 rd Edition,4500 H ⁺ ,Page:4-95	6.5-8.5
2	Turbidity	NTU	1.48	APHA 23 rd Edition,2130,Page:2-13	5
3	TDS	mg/L	18.9	APHA 23 rd Edition,2540 C, Page :2-69	2000
4	TSS	mg/L	74.12	APHA 23 rd Edition,2540,Page:2-70	-----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition,5520 B,Page:5-42	-----
6	Dissolved Oxygen	mg/L	4.5	APHA 23 rd Edition,4500-O C,Page:4-146	6
7	Total hardness	mg/L	53	APHA 23 rd Edition,2340 B,Page:2-48	600
8	Calcium	mg/L	21.3	APHA 23 rd Edition,3500-Ca B,Page:3-89	200
9	Magnesium	mg/L	14	APHA 23 rd Edition,3500-Mg B,Page:3-86	100
10	Total Alkalinity	mg/L	23	APHA 23 rd Edition,2320,Page:2-37	600
11	Sulphate	mg/L	22.6	APHA 23 rd Edition,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	6.1	APHA 23 rd Edition,4500-NO ₃ ⁻ B,Page:4-127	-----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition,4500-P,Page:4-163	-----
14	Salinity	%	0.2	APHA 23 rd Edition,2520B,Page:2-60	-----
15	Conductivity	µS/cm	86	APHA 23 rd Edition,2520B,Page:2-60	2500

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmari, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com



TC-7669

Sample ID No: EETNE/AUG/20/23
 Test Starting Date: 26/08/2023

Date of sample receipt: 19/07/2023
 Test completion Date: 02/09/2023

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
16	Arsenic	mg/L	BDL	APHA 23 rd Edition,3114A,Page:3-36	-----
17	Iron(as Fe)	mg/L	0.92	APHA 23 rd Edition,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	4	APHA 23 rd Edition,9222B,Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition,9222 D,Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	5	APHA 23 rd Edition,5210B,Page:5-6	-----
21	COD	mg/L	43	APHA 23 rd Edition,5220 b,Page:5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

(Handwritten Signature)

KHAIRUL ISLAM SHEIKH
 Environmental Chemist
 Test Done By



UTPAL BEZBARUAH
 Technical Manager
 Authorized Signatory

Note: i) The results relate only to the parameters tested.
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 End of report

House No. 6, 1st Floor, Sankardev Path, Pub-Saranla, Chandmani, Guwahati-781003, Assam.

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TEST REPORT:

Report No: 230902_1503163_01
 ULR No: TC766923000000117P
 Sample ID No: EETNE/AUG/21/23
 Test Starting Date: 26/08/2023

Date of Report: 02/09/23 **TC-7669**
 Date of sample receipt: 26/08/2023
 Test completion Date: 02/09/23

Name & Address of Client	M/s. ANDRITZ HYDRO PVT. LTD., LKHEP PROJECT,, village- longku, Dist- Dima Hasao, Pin- 788931					
Sample Description	Type: Surface Water (Valve House)			Source: Koplii River		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date	Time	Temperature	p ^H	Quantity Drawn:	Sampling Method:
	25/08/2023	10:45 A.M	30°C	6.71	2L	EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	p ^H	---	6.62	APHA 23 rd Edition,4500 H ⁺ ,Page:4-95	6.5-8.5
2	Turbidity	NTU	1.26	APHA 23 rd Edition,2130,Page:2-13	5
3	TDS	mg/L	203	APHA 23 rd Edition,2540 C, Page :2-69	2000
4	TSS	mg/L	92.4	APHA 23 rd Edition,2540,Page:2-70	-----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition,5520 B,Page:5-42	-----
6	Dissolved Oxygen	mg/L	5.4	APHA 23 rd Edition,4500-O C,Page:4-146	6
7	Total hardness	mg/L	53	APHA 23 rd Edition,2340 B,Page:2-48	600
8	Caicum	mg/L	27.2	APHA 23 rd Edition,3500-Ca B,Page:3-69	200
9	Magnesium	mg/L	16.5	APHA 23 rd Edition,3500-Mg B,Page:3-86	100
10	Total Alkalinity	mg/L	162	APHA 23 rd Edition,2320,Page:2-37	600
11	Sulphate	mg/L	11.6	APHA 23 rd Edition,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	6.4	APHA 23 rd Edition,4500-NO ₃ ⁻ B,Page:4-127	-----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition,4500-P,Page:4-163	-----
14	Salinity	%	0.3	APHA 23 rd Edition,2520B,Page:2-60	-----
15	Conductivity	µS/cm	220	APHA 23 rd Edition,2520B,Page:2-60	2500

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmani, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com



TC-7669

Sample ID No: EETNE/AUG/21/23
 Test Starting Date: 26/08/2023

Date of sample receipt: 19/07/2023
 Test completion Date: 02/09/2023

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
16	Arsenic	mg/L	<0.001	APHA 23 rd Edition,3114A,Page:3-36	-----
17	Iron(as Fe)	mg/L	0.94	APHA 23 rd Edition,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	3	APHA 23 rd Edition,9222B,Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition,9222 D,Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	9	APHA 23 rd Edition,5210B,Page:5-6	-----
21	COD	mg/L	24	APHA 23 rd Edition,5220 b,Page:5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

KHAIRUL ISLAM SHEIKH
 Environmental Chemist
 Test Done By



UTPAL BEZBARUAH
 Technical Manager
 Authorized Signatory

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House No. 6, 1st Floor, Sankardev Path, Pub-Saranla, Chandmari, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com

Surface water quality CP-4



ABNS SCIENTIFIC SERVICES

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एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে पास, एन एडच २७, गुवाहाटी ७८१०३३, असम



TC-10736

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

ULR Number: TC1073623000000732F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near AP 1/0 (Latitude: 25.98746N, Longitude: 92.92382E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH	-	7.11	IS 3025 Part 11: 1983
2	Total Dissolve Solids	mg/L	193	IS 3025 Part 16: 1984
3	Total Hardness	mg/L	54.0	IS 3025 Part 21: 2009
4	Calcium	mg/L	26.4	IS 3025 Part 40: 1991
5	Magnesium	mg/L	5.72	IS 3025 Part 46: 1994
6	Total Alkalinity	mg/L	68.0	IS 3025 Part 23: 1986
7	Chloride	mg/L	27.0	IS 3025 Part 32: 1986
8	DO	mg/L	5.8	IS 3025 Part 38: 1989
9	BOD	mg/L	2	IS 3025 Part 44: 1993
10	COD	mg/L	10	IS 3025 Part 58: 2006

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Manjuma
31/12/2023
Authorized Signatory

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- Results relate only to the parameters tested.



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एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ब्लू के पास, एन एइच २७, गुवाहाटी ७८१०३३, असम

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/44	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near AP 1/0 (Latitude: 25.98746N, Longitude: 92.92382E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
11	Colour	(Hazen)	7	APHA 23 rd Edtn., 2120 B
12	Odour		Agreeable	APHA 23 rd Edtn., 2150 B
13	Temperature	°C	17.3	APHA 23 rd Edtn., 2550 B
14	Turbidity	NTU	4.19	APHA 22 nd Edtn., 2012, 2130 B
15	Sulphate	mg/L	17.5	APHA 23 rd Edtn., 4500 SO4 E, 2017
16	Nitrate	mg/L	2.86	APHA 23 rd Edtn., 4500 NO3 E, 2017
17	Flouride	mg/L	1.03	APHA 23 rd Edtn., 4500 F C/D, 2017
18	Sodium	mg/L	47	IS 3025 (Part 45)
19	Potassium	mg/L	32	IS 3025 (Part 48) : 1994, Rffm. 2003
20	Iron	mg/L	0.15	APHA 23 rd Edtn., 3500 Fe B, 2017
21	Copper	mg/L	<0.01	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
22	Total Phosphate	mg/L	0.29	APHA 23 rd Edtn., 4500 P-B, D, 2017
23	Chromium (Cr)	mg/L	<0.02	APHA 23 rd Edtn., 3111 D, 2017 (AAS FLAME)
24	Manganese (Mn)	mg/L	<0.02	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
25	Total coliform	MPN/100 ml	40	IS 1622-1981, Ref. 2014
26	Faecal coliforms	MPN/100 ml	Not Detected	IS 1622-1981, Ref. 2014

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory

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এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

Phone: 98640 68513, 98640 89951



TC-10736

TEST REPORT

ULR Number: TC1073623000000731F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near 87/0 (Latitude: 25.697083N, Longitude: 92.807244E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH	-	7.13	IS 3025 Part 11: 1983
2	Total Dissolve Solids	mg/L	178	IS 3025 Part 16: 1984
3	Total Hardness	mg/L	62.0	IS 3025 Part 21: 2009
4	Calcium	mg/L	32.9	IS 3025 Part 40: 1991
5	Magnesium	mg/L	5.86	IS 3025 Part 46: 1994
6	Total Alkalinity	mg/l.	36.0	IS 3025 Part 23: 1986
7	Chloride	mg/l.	23.5	IS 3025 Part 32: 1986
8	DO	mg/L	5.6	IS 3025 Part 38: 1989
9	BOD	mg/L	3	IS 3025 Part 44: 1993
10	COD	mg/L	10	IS 3025 Part 58: 2006

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Manjuma
31/12/2023
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এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/45	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near 87/0 (Latitude: 25.697083N, Longitude: 92.807244E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
11	Colour	(Hazen)	10	APHA 23 rd Edtn., 2120 B
12	Odour		Agreeable	APHA 23 rd Edtn., 2150 B
13	Temperature	°C	18.2	APHA 23 rd Edtn., 2550 B
14	Turbidity	NTU	2.17	APHA 22 nd Edtn., 2012, 2130 B
15	Sulphate	mg/L	21.0	APHA 23 rd Edtn., 4500 SO4 E, 2017
16	Nitrate	mg/L	2.03	APHA 23 rd Edtn., 4500 NO3 E, 2017
17	Flouride	mg/L	0.91	APHA 23 rd Edtn., 4500 F C/D, 2017
18	Sodium	mg/L	56	IS 3025 (Part 45)
19	Potassium	mg/L	34	IS 3025 (Part 48) : 1994, Rffm. 2003
20	Iron	mg/L	0.18	APHA 23 rd Edtn., 3500 Fe B, 2017
21	Copper	mg/L	<0.01	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
22	Total Phosphate	mg/L	0.29	APHA 23 rd Edtn., 4500 P-B, D, 2017
23	Chromium (Cr)	mg/L	<0.02	APHA 23 rd Edtn., 3111 D, 2017 (AAS FLAME)
24	Manganese (Mn)	mg/L	<0.02	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
25	Total coliform	MPN/100 ml	50	IS 1622-1981, Ref. 2014
26	Faecal coliforms	MPN/100 ml	Not Detected	IS 1622-1981, Ref. 2014

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory

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ABNS SCIENTIFIC SERVICES

এবিএনএচ সাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাথ, এন এছচ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



TC-10736

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

ULR Number: TC1073623000000730F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near 58/0 (Latitude: 25.751127N, Longitude: 92.897617E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH	-	7.15	IS 3025 Part 11: 1983
2	Total Dissolve Solids	mg/L	289	IS 3025 Part 16: 1984
3	Total Hardness	mg/L	72.0	IS 3025 Part 21: 2009
4	Calcium	mg/L	27.52	IS 3025 Part 40: 1991
5	Magnesium	mg/L	6.84	IS 3025 Part 46: 1994
6	Total Alkalinity	mg/L	56.0	IS 3025 Part 23: 1986
7	Chloride	mg/L	22.0	IS 3025 Part 32: 1986
8	DO	mg/L	6.2	IS 3025 Part 38: 1989
9	BOD	mg/L	3	IS 3025 Part 44: 1993
10	COD	mg/L	13	IS 3025 Part 58: 2006

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Mayur Jyoti Mahanta
31/12/2023
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एवीएनएस साइंटिफिक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে पास, एन एइच २७, गुवाहाटी ७८१०३३, असम

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 899

TEST REPORT

Report Number: ABNS/EM/123123/43	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near 58/0 (Latitude: 25.751127N, Longitude: 92.897617E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
11	Colour	(Hazen)	8	APHA 23 rd Edtn., 2120 B
12	Odour		Agreeable	APHA 23 rd Edtn., 2150 B
13	Temperature	°C	16.3	APHA 23 rd Edtn., 2550 B
14	Turbidity	NTU	3.58	APHA 22 nd Edtn., 2012, 2130 B
15	Sulphate	mg/L	25.0	APHA 23 rd Edtn., 4500 SO4 E, 2017
16	Nitrate	mg/L	2.71	APHA 23 rd Edtn., 4500 NO3 E, 2017
17	Flouride	mg/L	1.06	APHA 23 rd Edtn., 4500 F C/D, 2017
18	Sodium	mg/L	42	IS 3025 (Part 45)
19	Potassium	mg/L	29	IS 3025 (Part 48) : 1994, Refm. 2003
20	Iron	mg/L	0.23	APHA 23 rd Edtn., 3500 Fe B, 2017
21	Copper	mg/L	<0.01	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
22	Total Phosphate	mg/L	0.25	APHA 23 rd Edtn., 4500 P-B, D, 2017
23	Chromium (Cr)	mg/L	<0.02	APHA 23 rd Edtn., 3111 D, 2017 (AAS FLAME)
24	Manganese (Mn)	mg/L	<0.02	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
25	Total coliform	MPN/100 ml	61	IS 1622-1981, Ref. 2014
26	Faecal coliforms	MPN/100 ml	Not Detected	IS 1622-1981, Ref. 2014

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Manjumantra
31/12/2023

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এবীএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রৈডিসন ব্লু কে পাশ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

Phone: 98640 68513, 98640 89951



TC-10736

TEST REPORT

ULR Number: TC1073623000000729F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near 37/1 (Latitude: 25.854547N, Longitude: 92.920560E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH	-	7.15	IS 3025 Part 11: 1983
2	Total Dissolve Solids	mg/L	289	IS 3025 Part 16: 1984
3	Total Hardness	mg/L	72.0	IS 3025 Part 21: 2009
4	Calcium	mg/L	27.52	IS 3025 Part 40: 1991
5	Magnesium	mg/L	6.84	IS 3025 Part 46: 1994
6	Total Alkalinity	mg/L	56.0	IS 3025 Part 23: 1986
7	Chloride	mg/L	22.0	IS 3025 Part 32: 1986
8	DO	mg/L	6.2	IS 3025 Part 38: 1989
9	BOD	mg/L	3	IS 3025 Part 44: 1993
10	COD	mg/L	13	IS 3025 Part 58: 2006

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Signature
31/12/2023
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एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/42	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Near 37/1 (Latitude: 25.854547N, Longitude: 92.920560E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
11	Colour	(Hazen)	10	APHA 23 rd Edtn., 2120 B
12	Odour		Agreeable	APHA 23 rd Edtn., 2150 B
13	Temperature	°C	18.5	APHA 23 rd Edtn., 2550 B
14	Turbidity	NTU	2.76	APHA 22 nd Edtn., 2012, 2130 B
15	Sulphate	mg/L	21.0	APHA 23 rd Edtn., 4500 SO4 E, 2017
16	Nitrate	mg/L	3.19	APHA 23 rd Edtn., 4500 NO3 E, 2017
17	Flouride	mg/L	1.56	APHA 23 rd Edtn., 4500 F C/D, 2017
18	Sodium	mg/L	52	IS 3025 (Part 45)
19	Potassium	mg/L	37	IS 3025 (Part 48) : 1994, Rffm. 2003
20	Iron	mg/L	0.19	APHA 23 rd Edtn., 3500 Fe B, 2017
21	Copper	mg/L	<0.01	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
22	Total Phosphate	mg/L	0.31	APHA 23 rd Edtn., 4500 P-B, D, 2017
23	Chromium (Cr)	mg/L	<0.02	APHA 23 rd Edtn., 3111 D, 2017 (AAS FLAME)
24	Manganese (Mn)	mg/L	<0.02	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
25	Total coliform	MPN/100 ml	47	IS 1622-1981, Ref. 2014
26	Faecal coliforms	MPN/100 ml	Not Detected	IS 1622-1981, Ref. 2014

For ABNS Scientific Services

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Manjamma
31/12/2023
Authorized Signatory

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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাচ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

Phone: 98640 68513, 98640 89951



TEST REPORT

ULR Number: TC1073623000000728F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Lalungdubi Village (Latitude: 25.891583N, Longitude: 92.921053E) Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH	-	7.37	IS 3025 Part 11: 1983
2	Total Dissolve Solids	mg/L	317	IS 3025 Part 16: 1984
3	Total Hardness	mg/L	56.0	IS 3025 Part 21: 2009
4	Calcium	mg/L	38.0	IS 3025 Part 40: 1991
5	Magnesium	mg/L	8.14	IS 3025 Part 46: 1994
6	Total Alkalinity	mg/L	96.0	IS 3025 Part 23: 1986
7	Chloride	mg/L	23.5	IS 3025 Part 32: 1986
8	DO	mg/L	6.8	IS 3025 Part 38: 1989
9	BOD	mg/L	2	IS 3025 Part 44: 1993
10	COD	mg/L	11	IS 3025 Part 58: 2006

For ABNS Scientific Services,

Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)



Majumdar
31/12/2023
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एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ब्लू के पास, एन एच २७, गुवाहाटी ७८१०३३, असम

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Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/41	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Surface Water Sampling Location: Lalungdubi Village Source: Pond	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 31/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
11	Colour	(Hazen)	5	APHA 23 rd Edtn., 2120 B
12	Odour		Agreeable	APHA 23 rd Edtn., 2150 B
13	Temperature	°C	19.3	APHA 23 rd Edtn., 2550 B
14	Turbidity	NTU	3.19	APHA 22 nd Edtn., 2012, 2130 B
15	Sulphate	mg/L	23.0	APHA 23 rd Edtn., 4500 S04 E, 2017
16	Nitrate	mg/L	1.93	APHA 23 rd Edtn., 4500 NO3 E, 2017
17	Flouride	mg/L	0.98	APHA 23 rd Edtn., 4500 F C/D, 2017
18	Sodium	mg/L	53	IS 3025 (Part 45)
19	Potassium	mg/L	41	IS 3025 (Part 48) : 1994, Rffm. 2003
20	Iron	mg/L	0.21	APHA 23 rd Edtn., 3500 Fe B, 2017
21	Copper	mg/L	<0.01	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
22	Total Phosphate	mg/L	0.34	APHA 23 rd Edtn., 4500 P-B, D, 2017
23	Chromium (Cr)	mg/L	<0.02	APHA 23 rd Edtn., 3111 D, 2017 (AAS FLAME)
24	Manganese (Mn)	mg/L	<0.02	APHA 23 rd Edtn., 3120 B, 2017 (ICPOES)
25	Total coliform	MPN/100 ml	51	IS 1622-1981, Ref. 2014
26	Faecal coliforms	MPN/100 ml	Not Detected	IS 1622-1981, Ref. 2014

For ABNS Scientific Services,


Report reviewed by: Dr. Mayur Jyoti Mahanta (QM)




Manjamma
31/12/2023
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Ground water quality CP-1



en-vision
Enviro Technologies North East
Technologies for better tomorrow



TC-7669

Recognized by Pollution Control Board, Assam

TEST REPORT:
 Report No: 2305824_14080047_0
 ULR No: TC76692300000109P
 Sample ID No: EETNE/AUG/05/23
 Test Starting Date: 24/08/23

Date of Report: 31/08/23
 Date of sample receipt: 24/08/23
 Test completion Date: 31/08/23

Name & Address of Client	M/s. BVG India Ltd, Midas Tower, 4 th Floor, Rajiv Gandhi Infotech Park, Phase-1, Hinjwani.				
Sample Description	Type: Raw Water	Source : Borewell			
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 24/08/2023	Time 11:20 A.M	Temperature 28°C	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.45	APHA 23 rd Edition,4500-H ¹ ,Page:4-95	6.5-8.5	No relaxation
2	Turbidity	NTU	1.16	APHA 23 rd Edition,2130,Page:2-13	1.0	5.0
3	TDS	mg/L	172	APHA 23 rd Edition,2540 C,Page :2-69	500	2000
4	Total hardness	mg/L	63.2	APHA 23 rd Edition,2340 B,Page:2-48	200	600
5	Calcium	mg/L	34.8	APHA 23 rd Edition,3500-Ca B,Page:3-69	75	200
6	Magnesium	mg/L	14.5	APHA 23 rd Edition,3500-Mg B,Page:3-86	30	100
7	Total Alkalinity	mg/L	114	APHA 23 rd Edition,2320 B,Page:2-37	200	600

Page 1 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmani, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com



TC-7669

Report No: 230831_14080047_0
Sample ID No: EETNE/AUG/05/23

Date of Report: 31/08/23
Date of sample receipt: 24/08/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
8	Dissolved Oxygen	mg/L	6.4	APHA 23 rd Edition,4500-O C,Page:4-146	--	--
9	Chloride	mg/L	14.3	APHA 23 rd Edition,4500-Cl B,Page:4-75	250	1000
10	Sulphate	mg/L	9.2	APHA 23 rd Edition,4500-SO ₄ ²⁻ E,Page:4-199	200	400
11	Nitrates	mg/L	2.4	APHA 23 rd Edition,4500-NO ₃ ⁻ B,Page:4-127	45	No relaxation
12	Residual Chlorine	mg/L	BDL	APHA 23 rd Edition,4500-Cl B,Page:4-63	0.2	1.0
13	Fluoride	mg/L	0.24	APHA 23 rd Edition,4500-F D,Page:4-90	1.0	1.5
14	Copper	mg/L	0.031	APHA 23 rd Edition,3111 B,Page:3-20	0.05	1.5
15	Iron(as Fe)	mg/L	0.245	APHA 23 rd Edition,3111 B,Page:3-20	0.3	No relaxation
16	Cadmium	mg/L	BDL	APHA 23 rd Edition,3111 B,Page:3-20	0.003	No relaxation
17	Lead(as Pb)	mg/L	BDL	APHA 23 rd Edition,3111 B,Page:3-20	0.01	No relaxation
18	Zinc	mg/L	0.230	APHA 23 rd Edition,3111 B,Page:3-20	5	15
19	Chromium Total	mg/L	BDL	APHA 23 rd Edition,3111 B,Page:3-20	0.05	No relaxation
20	Manganese	mg/L	0.034	APHA 23 rd Edition,3111 B,Page:3-20	0.1	0.3
21	Selenium	mg/L	BDL	APHA 23 rd Edition,3114A,Page:3-36	0.01	No relaxation

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TDS) Total Dissolved Solids, (BDL) Below Detection Limit.

For Envision Enviro Technologies North East

Khairul Islam
15/08/23

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested and item sampled.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
End of report

Page 2 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmari, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envisionghy@gmail.com

Ground water quality CP-3



TC-7669

TEST REPORT:

Report No: 230831_1503163_2
ULR No: TC766923000000115P
Sample ID No: EETNE/AUG/19/23
Test Starting Date: 25/08/2023

Date of Report: 31/08/23
Date of sample receipt: 25/08/2023
Test completion Date: 31/08/23

Name & Address of Client	M/s. ANDRITZ HYDRO PVT. LTD., LKHEP Project ,village- Longku ,Dist- Dima Hasao, Pin- 788931.					
Sample Description	Type: Raw water			Source: borewell		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 25/08/2023	Time 10:45 A.M	Temperature 31°C	p ^H 6.71	Quantity Drawn:4L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	p ^H	---	6.68	APHA 23 rd Edition,4500 H ⁺ ,Page:4-95	6.5-8.5
2	Turbidity	NTU	4.6	APHA 23 rd Edition,2130,Page:2-13	5
3	TDS	mg/L	68.6	APHA 23 rd Edition,2540 C, Page :2-69	2000
4	TSS	mg/L	81.2	APHA 23 rd Edition,2540,Page:2-70	----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition,5520 B,Page:5-42	----
6	Dissolved Oxygen	mg/L	5.4	APHA 23 rd Edition,4500-O C,Page:4-146	6
7	Total hardness	mg/L	72.5	APHA 23 rd Edition,2340 B,Page:2-48	600
8	Calcium	mg/L	38.6	APHA 23 rd Edition,3500-Ca B,Page:3-69	200
9	Magnesium	mg/L	22.4	APHA 23 rd Edition,3500-Mg B,Page:3-86	100
10	Total Alkalinity	mg/L	35.4	APHA 23 rd Edition,2320,Page:2-37	600
11	Sulphate	mg/L	26.2	APHA 23 rd Edition,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	4.4	APHA 23 rd Edition,4500-NO ₃ B,Page:4-127	20
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition,4500-P,Page:4-163	-----
14	Salinity	%	0.2	APHA 23 rd Edition,2520B,Page:2-60	-----
15	Conductivity	µS/cm	81.3	APHA 23 rd Edition,2520B,Page:2-60	2500

Page 1 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Saranla, Chandmarl, Guwahati-781003, Assam.

Phone : +91 98840 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com



Sample ID No: EETNE/AUG/19/23
Test Starting Date: 25/08/2023

Date of sample receipt: 25/08/2023
Test completion Date: 31/08/2023

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
16	Arsenic	mg/L	BDL	APHA 23 rd Edition,3114A,Page:3-36	-----
17	Iron(as Fe)	mg/L	0.71	APHA 23 rd Edition,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition,9222B,Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition,9222 D,Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	4.2	APHA 23 rd Edition,5210B,Page:5-6	-----
21	COD	mg/L	61	APHA 23 rd Edition,5220 b,Page:5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Quality Manager
Authorized Signatory

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory
iii) Parameter no.11 to 19 are analyzed by Department of Chemistry,B.Boroah College as per our MOU.
End of report



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এবীএনএস সাইন্টিফীক সার্ভীসেজ

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রৈডিসন ব্লু কে পাশ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TC-10736

TEST REPORT

ULR Number: TC1073623000000727F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near AP 1/0 (Latitude: 25.985139N, Longitude: 92.92598E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Physical & Chemical Test Findings:

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
A. Organoleptic and Physical Parameters						
1	Color	IS: 3025-(part4): 1983 Reaf, 2012	Hazen	2	5 Max	15 Max
2	Odour	IS: 3025-(part5): 1983	---	Agreeable	Agreeable	Agreeable
3	Taste	IS: 3025-(part8): 1983	---	Agreeable	Agreeable	Agreeable
4	pH value	IS: 3025-(part11): 1983 Reaf, 2012	---	7.15	6.5-8.5	No Relaxation
5	Turbidity	IS: 3025-(part10): 1983 Reaf, 2012	NTU	4.83	1 Max	5 Max
6	TDS	IS: 3025-(part16): 1983 Reaf, 2012	mg/l	96.0	500 Max	2000
7	Conductance	IS 3025 Part 14	mS/cm	0.325	-	-

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



[Signature]
31/12/2023
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এবিএনএস সাইন্টিফিক সার্ভিসেস

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam
কেতেকী পথ, রৈডিসন ব্লু কে पास, एन एइच २७, गुवाहाटी ७८१०३३, असम



TC-10736

Email: info@abnsscscientific.com, abnsscscientific@gmail.com

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TEST REPORT

ULR Number: TC107362300000727F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near AP 1/0 (Latitude: 25.985139N, Longitude: 92.92598E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
B. General parameters Concerning Substances Undesirable in Excessive Amounts						
1	Total Alkinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf. 2009	mg/l	86.0	200 Max	600 Max
2	Total Hardness as CaCO ₃	IS: 3025-(part21) 2009	mg/l	92.0	200 Max	600 Max
3	Calcium as Ca	IS: 3025-(part40): 1991 Reaf. 2009	mg/l	26.58	75 Max	200 Max
4	Magnesium as Mg	IS: 3025-(part46): 1994 Reaf. 2009	mg/l	7.62	30 Max	100 Max
5	Sulphate as SO ₄	IS: 3025-(part24): 1983 Reaf. 2009	mg/l	32.5	200 Max	400 Max
6	Nitrate as NO ₃	IS: 3025-(part34): 1988 Reaf. 2009	mg/l	2.86	45 Max	No Relaxation
7	Chloride as Cl	IS: 3025-(part32): 1988 Reaf. 2009	mg/l	29.3	250 Max	1000 Max
8	Fluoride as F	IS: 3025-(part60): 2008	mg/l	0.92	1 Max	1.5 Max

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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31/12/2023
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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাথ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

Report Number: ABNS/EM/123123/30	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near AP 1/0 (Latitude: 25.985139N, Longitude: 92.92598E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
1	Temperature	IS 3025 (Part 09) : 1984	°C	18.9	NA	NA
2	Phenolphthalein Alkalinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	NIL	NA	NA
3	DO	APHA 22 nd Edtn, 2012, 4500 O-C	mg/l	5.8	NA	NA
4	BOD	IS 3025 (Part 44)1993; Rffm, 2017	mg/l	1.8	NA	NA
5	COD	IS 3025 (Part 58)2006; Rffm, 2019	mg/l	5.6	NA	NA
6	Sodium	IS 3025 (Part 45)	mg/l	3.76	NA	NA
7	Potassium	IS 3025 (Part 48) : 1994, Rffm, 2003	mg/l	3.10	NA	NA
8	Nitrite Nitrogen as N	IS 3025 (Part 34) : 1988,	mg/l	<0.2	NA	NA
9	Ammonium (NH ₃ -N)	IS: 3025-(part34)	mg/l	<0.2	0.5 Max	No Relaxation
10	Boron as B	IS: 3025-(part57): 2005 Reaf, 2010	mg/l	<0.05	0.5 Max	1.0
C. Microbiological Test parameters						
1	Total coliform	IS 1622-1981, Ref. 2014	MPN/100 ml	15	No Relaxation	No Relaxation
2	Faecal coliforms	IS 1622-1981, Ref. 2014	MPN/100 ml	Not Detected	No Relaxation	No Relaxation

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TC-10736

TEST REPORT

ULR Number: TC1073623000000726F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 87/0 (Latitude: 25.697083N, Longitude: 92.807244E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Physical & Chemical Test Findings:

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
A. Organoleptic and Physical Parameters						
1	Color	IS: 3025-(part4): 1983 Reaf, 2012	Hazen	3	5 Max	15 Max
2	Odour	IS: 3025-(part5): 1983	---	Agreeable	Agreeable	Agreeable
3	Taste	IS: 3025-(part8): 1983	---	Agreeable	Agreeable	Agreeable
4	pH value	IS: 3025-(part11): 1983 Reaf, 2012	---	7.13	6.5-8.5	No Relaxation
5	Turbidity	IS: 3025-(part10): 1983 Reaf, 2012	NTU	5.10	1 Max	5 Max
6	TDS	IS: 3025-(part16): 1983 Reaf, 2012	mg/l	112.0	500 Max	2000
7	Conductance	IS 3025 Part 14	mS/cm	0.298	-	-

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TC-10736

TEST REPORT

ULR Number: TC1073623000000726F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 87/0 (Latitude: 25.697083N, Longitude: 92.807244E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
B. General parameters Concerning Substances Undesirable in Excessive Amounts						
1	Total Alkalinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	98.0	200 Max	600 Max
2	Total Hardness as CaCO ₃	IS: 3025-(part21): 2009	mg/l	106.0	200 Max	600 Max
3	Calcium as Ca	IS: 3025-(part40): 1991 Reaf, 2009	mg/l	32.26	75 Max	200 Max
4	Magnesium as Mg	IS: 3025-(part46): 1994 Reaf, 2009	mg/l	9.74	30 Max	100 Max
5	Sulphate as SO ₄	IS: 3025-(part24): 1983 Reaf, 2009	mg/l	44.0	200 Max	400 Max
6	Nitrate as NO ₃	IS: 3025-(part34): 1988 Reaf, 2009	mg/l	3.16	45 Max	No Relaxation
7	Chloride as Cl	IS: 3025-(part32): 1988 Reaf, 2009	mg/l	33.8	250 Max	1000 Max
8	Fluoride as F	IS: 3025-(part60): 2008	mg/l	1.02	1 Max	1.5 Max

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রৈডিসন ব্লু কে পাশ, এন এডচ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

Report Number: ABNS/EM/123123/29	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 87/0 (Latitude: 25.697083N, Longitude: 92.807244E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
1	Temperature	IS 3025 (Part 09) : 1984	°C	18.7	NA	NA
2	Phenolphthalein Alkalinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	NIL	NA	NA
3	DO	APHA 22 nd Edtn, 2012, 4500 O-C	mg/l	6.2	NA	NA
4	BOD	IS 3025 (Part 44)1993; Rffm. 2017	mg/l	1.6	NA	NA
5	COD	IS 3025 (Part 50)2006; Rffm. 2019	mg/l	6.0	NA	NA
6	Sodium	IS 3025 (Part 45)	mg/l	4.82	NA	NA
7	Potassium	IS 3025 (Part 48) : 1994, Rffm. 2003	mg/l	2.64	NA	NA
8	Nitrite Nitrogen as N	IS 3025 (Part 34) : 1988,	mg/l	<0.2	NA	NA
9	Ammonium (NH ₃ -N)	IS: 3025-(part34)	mg/l	<0.2	0.5 Max	No Relaxation
10	Boron as B	IS: 3025-(part57): 2005 Reaf, 2010	mg/l	<0.05	0.5 Max	1.0
C. Microbiological Test parameters						
1	Total coliform	IS 1622-1981, Reff. 2014	MPN/100 ml	13	No Relaxation	No Relaxation
2	Faecal coliforms	IS 1622-1981, Reff. 2014	MPN/100 ml	Not Detected	No Relaxation	No Relaxation

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



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TEST REPORT

ULR Number: TC1073623000000725F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 58/0 (Latitude: 25.750737N, Longitude: 92.897803E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Physical & Chemical Test Findings:

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
A. Organoleptic and Physical Parameters						
1	Color	IS: 3025-(part4): 1983 Reaf, 2012	Hazen	2	5 Max	15 Max
2	Odour	IS: 3025-(part5): 1983	---	Agreeable	Agreeable	Agreeable
3	Taste	IS: 3025-(part8): 1983	---	Agreeable	Agreeable	Agreeable
4	pH value	IS: 3025-(part11): 1983 Reaf, 2012	---	7.13	6.5-8.5	No Relaxation
5	Turbidity	IS: 3025-(part10): 1983 Reaf, 2012	NTU	4.76	1 Max	5 Max
6	TDS	IS: 3025-(part16): 1983 Reaf, 2012	mg/l	98.0	500 Max	2000
7	Conductance	IS 3025 Part 14	mS/cm	0.316	-	-

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



TC-10736

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Phone: 98640 68513, 98640 89951

TEST REPORT

ULR Number: TC107362300000725F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 58/0 (Latitude: 25.750737N, Longitude: 92.897803E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
B. General parameters Concerning Substances Undesirable in Excessive Amounts						
1	Total Alkinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	118.0	200 Max	600 Max
2	Total Hardness as CaCO ₃	IS: 3025-(part21): 2009	mg/l	84.0	200 Max	600 Max
3	Calcium as Ca	IS: 3025-(part40): 1991 Reaf, 2009	mg/l	38.72	75 Max	200 Max
4	Magnesium as Mg	IS: 3025-(part46): 1994 Reaf, 2009	mg/l	10.96	30 Max	100 Max
5	Sulphate as SO ₄	IS: 3025-(part24): 1983 Reaf, 2009	mg/l	37.0	200 Max	400 Max
6	Nitrate as NO ₃	IS: 3025-(part34): 1988 Reaf, 2009	mg/l	2.86	45 Max	No Relaxation
7	Chloride as Cl	IS: 3025-(part32): 1988 Reaf, 2009	mg/l	29.2	250 Max	1000 Max
8	Fluoride as F	IS: 3025-(part60): 2008	mg/l	0.93	1 Max	1.5 Max

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাথ, এন এছচ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TEST REPORT

Report Number: ABNS/EM/123123/28	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 58/0 (Latitude: 25.750737N, Longitude: 92.897803E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
1	Temperature	IS 3025 (Part 09) : 1984	°C	18.3	NA	NA
2	Phenolphthalein Alkinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	NIL	NA	NA
3	DO	APHA 22 nd Edtn., 2012, 4500 O-C	mg/l	5.2	NA	NA
4	BOD	IS 3025 (Part 44)1993; Rffm. 2017.	mg/l	1.8	NA	NA
5	COD	IS 3025 (Part 58)2006; Rffm. 2019	mg/l	7.0	NA	NA
6	Sodium	IS 3025 (Part 45)	mg/l	6.52	NA	NA
7	Potassium	IS 3025 (Part 48) : 1994, Rffm. 2003	mg/l	3.10	NA	NA
8	Nitrite Nitrogen as N	IS 3025 (Part 34) : 1988,	mg/l	<0.2	NA	NA
9	Ammonium (NH ₃ -N)	IS: 3025-(part34)	mg/l	<0.2	0.5 Max	No Relaxation
10	Boron as B	IS: 3025-(part57): 2005 Reaf, 2010	mg/l	<0.05	0.5 Max	1.0
C. Microbiological Test parameters						
1	Total coliform	IS 1622-1981, Reff. 2014	MPN/100 ml	7	No Relaxation	No Relaxation
2	Faecal coliforms	IS 1622-1981, Reff. 2014	MPN/100 ml	Not Detected	No Relaxation	No Relaxation

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



Manjiv Kumar
31/12/2023
Authorized Signatory

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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, ৱেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951



TEST REPORT

ULR Number: TC107362300000724F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 37/1 (Latitude: 25.848852N, Longitude: 92.946247E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Physical & Chemical Test Findings:

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
A. Organoleptic and Physical Parameters						
1	Color	IS: 3025-(part4): 1983 Reaf, 2012	Hazen	2	5 Max	15 Max
2	Odour	IS: 3025-(part5): 1983	----	Agreeable	Agreeable	Agreeable
3	Taste	IS: 3025-(part8): 1983	---	Agreeable	Agreeable	Agreeable
4	pH value	IS: 3025-(part11): 1983 Reaf, 2012	----	7.10	6.5-8.5	No Relaxation
5	Turbidity	IS: 3025-(part10): 1983 Reaf, 2012	NTU	6.52	1 Max	5 Max
6	TDS	IS: 3025-(part16): 1983 Reaf, 2012	mg/l	172.0	500 Max	2000
7	Conductance	IS 3025 Part 14	mS/cm	0.325	-	-

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



TC-10736

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Phone: 98640 68513, 98640 89951

TEST REPORT

ULR Number: TC1073623000000724F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 37/1 (Latitude: 25.848852N, Longitude: 92.946247E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
B. General parameters Concerning Substances Undesirable in Excessive Amounts						
1	Total Alkinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	136.0	200 Max	600 Max
2	Total Hardness as CaCO ₃	IS: 3025-(part21) 2009	mg/l	116.0	200 Max	600 Max
3	Calcium as Ca	IS: 3025-(part40): 1991 Reaf, 2009	mg/l	56.32	75 Max	200 Max
4	Magnesium as Mg	IS: 3025-(part46): 1994 Reaf, 2009	mg/l	22.10	30 Max	100 Max
5	Sulphate as SO ₄	IS: 3025-(part24): 1983 Reaf, 2009	mg/l	42.0	200 Max	400 Max
6	Nitrate as NO ₃	IS: 3025-(part34): 1988 Reaf, 2009	mg/l	4.19	45 Max	No Relaxation
7	Chloride as Cl	IS: 3025-(part32): 1988 Reaf, 2009	mg/l	31.5	250 Max	1000 Max
8	Fluoride as F	IS: 3025-(part60): 2008	mg/l	0.86	1 Max	1.5 Max

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscscientific.com, abnsscscientific@gmail.com Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/27	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Near 37/1 (Latitude: 25.848852N, Longitude: 92.946247E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
1	Temperature	IS 3025 (Part 09) : 1984	°C	18.5	NA	NA
2	Phenolphthalein Alkalinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	NIL	NA	NA
3	DO	APHA 22 nd Edn., 2012, 4500 O-C	mg/l	4.8	NA	NA
4	BOD	IS 3025 (Part 44)1993; Rffm. 2017	mg/l	1.6	NA	NA
5	COD	IS 3025 (Part 58)2006; Rffm. 2019	mg/l	8.0	NA	NA
6	Sodium	IS 3025 (Part 45)	mg/l	5.13	NA	NA
7	Potassium	IS 3025 (Part 48) : 1994, Rffm. 2003	mg/l	2.16	NA	NA
8	Nitrite Nitrogen as N	IS 3025 (Part 34) : 1988,	mg/l	<0.2	NA	NA
9	Ammonium (NH ₃ -N)	IS: 3025-(part34)	mg/l	<0.2	0.5 Max	No Relaxation
10	Boron as B	IS: 3025-(part57): 2005 Reaf, 2010	mg/l	<0.05	0.5 Max	1.0
C. Microbiological Test parameters						
1	Total coliform	IS 1622-1981, Ref. 2014	MPN/100 ml	11	No Relaxation	No Relaxation
2	Faecal coliforms	IS 1622-1981, Ref. 2014	MPN/100 ml	Not Detected	No Relaxation	No Relaxation

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাস, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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TC-10736

TEST REPORT

ULR Number: TC1073623000000723F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Lalungdubi Gaon (Latitude: 25.90285N, Longitude: 92.942726E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Physical & Chemical Test Findings:

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
A. Organoleptic and Physical Parameters						
1	Color	IS: 3025-(part4): 1983 Reaf, 2012	Hazen	3	5 Max	15 Max
2	Odour	IS: 3025-(part5): 1983	---	Agreeable	Agreeable	Agreeable
3	Taste	IS: 3025-(part8): 1983	---	Agreeable	Agreeable	Agreeable
4	pH value	IS: 3025-(part11): 1983 Reaf, 2012	---	7.21	6.5-8.5	No Relaxation
5	Turbidity	IS: 3025-(part10): 1983 Reaf, 2012	NTU	13.0	1 Max	5 Max
6	TDS	IS: 3025-(part16): 1983 Reaf, 2012	mg/l	252.0	500 Max	2000
7	Conductance	IS 3025 Part 14	mS/cm	0.345	-	-

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম



TC-10736

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TEST REPORT

ULR Number: TC1073623000000723F	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Lalungdubi Gaon (Latitude: 25.90285N, Longitude: 92.942726E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
B. General parameters Concerning Substances Undesirable in Excessive Amounts						
1	Total Alkinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	182.0	200 Max	600 Max
2	Total Hardness as CaCO ₃	IS: 3025-(part21) 2009	mg/l	136.0	200 Max	600 Max
3	Calcium as Ca	IS: 3025-(part40): 1991 Reaf, 2009	mg/l	42.12	75 Max	200 Max
4	Magnesium as Mg	IS: 3025-(part46): 1994 Reaf, 2009	mg/l	18.62	30 Max	100 Max
5	Sulphate as SO ₄	IS: 3025-(part24): 1983 Reaf, 2009	mg/l	63.0	200 Max	400 Max
6	Nitrate as NO ₃	IS: 3025-(part34): 1988 Reaf, 2009	mg/l	5.73	45 Max	No Relaxation
7	Chloride as Cl	IS: 3025-(part32): 1988 Reaf, 2009	mg/l	70.24	250 Max	1000 Max
8	Fluoride as F	IS: 3025-(part60): 2008	mg/l	1.02	1 Max	1.5 Max

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



Majumdar
31/12/2023
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H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রডিসন ব্লু কে পাথ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

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Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/26	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Drinking Water Sampling Location: Lalungdubi Gaon (Latitude: 25.90285N, Longitude: 92.942726E) Source: Tubewell	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Test Method	Unit	Result	Norms as per IS: 10500, 2012 (2 nd Rev.)	
					Acceptable Limit	Permissible Limit
1	Temperature	IS 3025 (Part 09) : 1984	°C	19.3	NA	NA
2	Phenolphthalein Alkalinity as CaCO ₃	IS: 3025-(part23): 1986 Reaf, 2009	mg/l	NIL	NA	NA
3	DO	APHA 22 nd Edtm., 2012, 4500 O-C	mg/l	5.6	NA	NA
4	BOD	IS 3025 (Part 44)1993; Rffm. 2017	mg/l	3.0	NA	NA
5	COD	IS 3025 (Part 58)2006; Rffm. 2019	mg/l	10.0	NA	NA
6	Sodium	IS 3025 (Part 45)	mg/l	6.18	NA	NA
7	Potassium	IS 3025 (Part 48) : 1994, Rffm. 2003	mg/l	5.22	NA	NA
8	Nitrite Nitrogen as N	IS 3025 (Part 34) : 1988,	mg/l	<0.2	NA	NA
9	Ammonium (NH ₃ -N)	IS: 3025-(part34)	mg/l	<0.2	0.5 Max	No Relaxation
10	Boron as B	IS: 3025-(part57): 2005 Reaf, 2010	mg/l	<0.05	0.5 Max	1.0
C. Microbiological Test parameters						
1	Total coliform	IS 1622-1981, Ref. 2014	MPN/100 ml	17	No Relaxation	No Relaxation
2	Faecal coliforms	IS 1622-1981, Ref. 2014	MPN/100 ml	Not Detected	No Relaxation	No Relaxation

For ABNS Scientific Services,

Report reviewed by: Dr. Bidyut J Sarmah (TM)



Majumdar
31/12/2023
Authorized Signatory

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TEST REPORT:

Report No: 231211_1503163_07
 ULR No: TC766923000000175P
 Sample ID No: EETNE/DEC/07/23
 Test Starting Date: 04/12/2023

Date of Report: 11/12/23
 Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Name: & Address of Client		M/s. Lower Kopili HEP Project, Near Lanka, Dist: Dima Hasao.				
Sample Description		Type: Drinking Water	Source: RO			
Sample collected by		M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars		Date	Time	Temperature	p ^H	Quantity Drawn:4L
		30/11/2023	1:20 P.M	28°C	7.2	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
1	pH	---	7.32	APHA 23 rd Edition 2017,4500 H ⁺ B, Page:4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5	No relaxation
2	Turbidity	NTU	<1	IS 3025 (Part 4) Nephelometric Method	1.0	5.0
3	TDS	mg/L	87.2	IS 3025 (Part 16)	500	2000
4	Total hardness	mg/L	4	IS 3025 (Part 21)	200	600
5	Calcium	mg/L	BDL	IS 3025 (Part 40) EDTA Titrimetric Method	75	200
6	Magnesium	mg/L	BDL	IS 3025 (Part 46)	30	100
7	Total Alkalinity	mg/L	15	IS 3025 (Part 23)	200	500
8	Chloride	mg/L	12.4	APHA 23 rd Edition 2017,4500-Cl ⁻ B,Page:4-75	250	1000
9	Sulphate	mg/L	5.2	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-159	200	400
10	Nitrate	mg/L	3.8	APHA 23 rd Edition 2017,4500-NO ₃ B,Page:4-127	45	No relaxation


Sample ID No: EETNE/DEC/07/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500: 2012	
					Acceptable limit	Permissible limit
11	Fluoride	mg/L	0.37	APHA 23 rd Edition 2017,4500-F D,Page:4-90	1.0	1.5
12	Copper	mg/L	0.041	APHA 23 rd Edition 2017,3111 B,Page:3-20	0.05	1.5
13	Iron(as Fe)	mg/L	0.158	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	0.3	No relaxation
14	Cadmium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.003	No relaxation
15	Lead	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.01	No relaxation
16	Zinc	mg/L	0.189	APHA 23 rd Edition 2017, 3111 B,Page:3-20	5	15
17	Total Chromium	mg/L	BDL	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.05	No relaxation
18	Manganese	mg/L	0.035	APHA 23 rd Edition 2017, 3111 B,Page:3-20	0.1	0.3
19	Selenium	mg/L	BDL	APHA 23 rd Edition 2017, 3114 B,Page:3-36	0.01	No relaxation
20	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017,3114 B,Page:3-36	0.01	No relaxation
21	BOD	mg/L	<2	APHA 23 rd Edition 2017,5210B,Page:5-6 / IS 3025 (Part 44)	--	--
22	COD	mg/L	<5	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	--	--

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test done by


UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/ Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Parameter no. 8 to 20 are analyzed by Department of Chemistry, B. Borooah College as per our MOU.

End of report

Page 2 of 2

Quality of water from Sedimentation tanks and waste water

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_14
ULR No: TC766923000000182P
Sample ID No: EETNE/DEC/14/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water	Source: Adit Sedimentation Water				
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 01/12/2023	Time 11:30 A.M	Temperature 28°C	pH 8.5	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	8.45	APHA 23 rd Edition 2017,4500-H* B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	9.8	IS 3025 (Part 4)	5
3	TDS	mg/L	75.2	IS 3025 (Part 16)	2000
4	TSS	mg/L	83.1	IS 3025 (Part 18)	----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	---
6	Dissolved Oxygen	mg/L	5.9	APHA 23 rd Edition 2017,4500-O C,Page:4-146	----
7	Total hardness	mg/L	24	IS 3025 (Part 21)	600
8	Calcium	mg/L	15.8	IS 3025 (Part 40)	200
9	Magnesium	mg/L	6.2	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	75	IS 3025 (Part 23)	600
11	Sulphate	mg/L	24.8	APHA 23 rd Edition 2017,4500-SC ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	4.6	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no.4-163	----

Page 1 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarana, Chandmari, Guwahati-781003, Assam.

Mobile : +91 98592 32126 / 88110 96201 ♦ e-mail : envisionghy@gmail.com

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM


Sample ID No: EETNE/DEC/14/23
 Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	‰	0.3	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	118	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05 *
17	Iron(as Fe)	mg/L	0.537	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	3	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	NIL	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	6.1	APHA 23 rd Edition 2017,5210 B,Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	34	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati


KHAIRUL ISLAM SHEIKH
 Environmental Chemist
 Test Done By


UTPAL BEZBARUAH
 Technical Manager
 Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory
 iii) Parameter no.11 to 19 are analyzed by Department of Chemistry, S. Borooah College as per our MOJ.

End of report

Page 2 of 2

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_08
ULR No: TC76692300000176P
Sample ID No: EETNE/DEC/08/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project, Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Wastewater				Source: Kitchen	
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 30/11/2023	Time 11:15 A.M	Temperature 28°C	pH 7.1	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Method Followed by	Permissible Limit
1.	pH	---	7.08	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	5.5-9.0
2.	Total Suspended Solids	mg/L	94.3	APHA 23 rd Edition 2017, 2540 D, Page no. 2-66	100
3.	Oil & Grease	mg/L	<5	APHA 23 rd Edition 2017, 5520 B, Page no. 5-42	10
4.	BOD	mg/L	7	APHA 23 rd Edition 2017, 5210 B, Page no:5-6 / IS 3025 (Part 44)	30
5.	COD	mg/L	28	APHA 23 rd Edition 2017,5220 B, Page no:5-18	250
6.	Dissolved Oxygen	mg/L	6.1	APHA 23 rd Edition,4500-O C, Page no:4-146	---

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati



KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
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End of report

Page 1 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandimari, Guwahati-781003, Assam.

Mobile : +91 98592 32126 / 88110 96201 ♦ e-mail : envisionghy@gmail.com

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_11
ULR No: TC76692300000179P
Sample ID No: EETNE/DEC/11/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Wastewater			Source: Workmans Camp		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 30/11/2023	Time 12:10 P.M	Temperature 28°C	pH 7.1	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

SL No.	Parameters	Unit	Result	Method Followed by	Permissible Limit
1.	pH	---	7.24	APHA 23 rd Edition 2017,4500-H' B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	5.5-9.0
2.	Total Suspended Solids	mg/L	98.6	APHA 23 rd Edition 2017, 2540 D, Page no. 2-66	100
3.	Oil & Grease	mg/L	8.4	APHA 23 rd Edition 2017, 5520 B, Page no. 5-42	10
4.	BOD	mg/L	9	APHA 23 rd Edition 2017, 5210 B, Page no:5-6 / IS 3025 (Part 44)	30
5.	COD	mg/L	32	APHA 23 rd Edition 2017,5220 B, Page no:5-1B	250
6.	Dissolved Oxygen	mg/L	5.7	APHA 23 rd Edition,4500-O C, Page no:4-146	---

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwanati



KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory

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Page 1 of 2

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Mobile : +91 98592 32126 / 98110 96201 ♦ e-mail : envisionghy@gmail.com

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_11
 ULR No: TC76692300000179P
 Sample ID No: EETNE/DEC/11/23
 Test Starting Date: 04/12/2023

Date of Report: 11/12/23
 Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopli HEP Project. Near Lanka, Dist: Dima Hasao.				
Sample Description	Type: Wastewater	Source: Workmans Camp			
Sample collected by	M/s. En-vision Enviro Technologies North East				
Sample Collection Particulars	Date 30/11/2023	Time 12:10 P.M	Temperature 28°C	pH 7.1	Quantity Drawn:2L Sampling Method: EETNE/SOP/02

SL No.	Parameters	Unit	Result	Method Followed by	Permissible Limit
1.	pH	---	7.24	APHA 23 rd Edition 2017, 4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	5.5-9.0
2.	Total Suspended Solids	mg/L	88.6	APHA 23 rd Edition 2017, 2540 D, Page no. 2-66	100
3.	Oil & Grease	mg/L	7.4	APHA 23 rd Edition 2017, 5520 B, Page no. 5-42	10
4.	BOD	mg/L	9	APHA 23 rd Edition 2017, 5210 B, Page no:5-8 / IS 3025 (Part 44)	30
5.	COD	mg/L	25	APHA 23 rd Edition 2017, 5220 B, Page no:5-18	250
6.	Dissolved Oxygen	mg/L	5.7	APHA 23 rd Edition, 4500-O C, Page no:4-146	---

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati



KHAIRUL ISLAM SHEIKH
 Environmental Chemist
 Test Done By



UTPAL BEZBARUAH
 Technical Manager
 Authorized Signatory/Reviewed By

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End of report

Page 1 of 2

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_08
ULR No: TC76692300000176P
Sample ID No: EETNE/DEC/08/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project, Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Wastewater				Source: Kitchen	
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 30/11/2023	Time 11:15 A.M	Temperature 28°C	pH 7.1	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

SL No.	Parameters	Unit	Result	Method Followed by	Permissible Limit
1.	pH	---	7.08	APHA 23 rd Edition 2017,4500-H ¹ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	5.5-9.0
2.	Total Suspended Solids	mg/L	94.3	APHA 23 rd Edition 2017, 2540 D, Page no. 2-66	100
3.	Oil & Grease	mg/L	<5	APHA 23 rd Edition 2017, 5520 B, Page no. 5-42	10
4.	BOD	mg/L	7	APHA 23 rd Edition 2017, 5210 B, Page no:5-6 / IS 3025 (Part 44)	30
5.	COD	mg/L	28	APHA 23 rd Edition 2017,5220 B, Page no.5-18	250
6.	Dissolved Oxygen	mg/L	6.1	APHA 23 rd Edition,4500-O C, Page no:4-146	---

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand,(TSS)Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

Khairul Islam Sheikh
13/12/23

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
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Page 1 of 2

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_10
ULR No: TC76692300000178P
Sample ID No: EETNE/DEC/10/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water			Source: Water Treatment Plant Sediment Tank		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 30/11/2023	Time 11:55 A.M	Temperature 28°C	pH 6.5	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	6.62	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	1.3	IS 3025 (Part 4)	5
3	TDS	mg/L	68.1	IS 3025 (Part 16)	2000
4	TSS	mg/L	55.7	IS 3025 (Part 18)	----
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	----
6	Dissolved Oxygen	mg/L	7.8	APHA 23 rd Edition 2017,4500-O C,Page:4-146	----
7	Total hardness	mg/L	28	IS 3025 (Part 21)	600
8	Calcium	mg/L	10.6	IS 3025 (Part 40)	200
9	Magnesium	mg/L	3.7	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	15	IS 3025 (Part 23)	600
11	Sulphate	mg/L	21.3	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	3.9	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	-----
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	-----

Page 1 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmari, Guwahati-781003, Assam.

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RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Sample ID No: EETNE/DEC/10/23
 Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
 Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.3	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	106	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05 *
17	Iron(as Fe)	mg/L	0.313	APHA 23 rd Edition 2017, 3500-Fe B, Page:3-80	-----
18	Total Coliform	MPN/100	1	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	3.2	APHA 23 rd Edition 2017, 5210 B, Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	17.5	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati



KHAIRUL ISLAM SHEIKH
 Environmental Chemist
 Test Done By



UTPAL BEZBARUAH
 Technical Manager
 Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
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 iii) Parameter no.11 to 19 are analyzed by Department of Chemistry, B. Borooah College as per our MOU.

End of report

Page 2 of 2

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

TEST REPORT:

Report No: 231211_1503163_06
ULR No: TC766923000000174P
Sample ID No: EETNE/DEC/06/23
Test Starting Date: 04/12/2023

Date of Report: 11/12/23
Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Name & Address of Client	M/s. Lower Kopili HEP Project. Near Lanka, Dist: Dima Hasao.					
Sample Description	Type: Surface Water			Source: Batching Plant Sediment Tank		
Sample collected by	M/s. En-vision Enviro Technologies North East					
Sample Collection Particulars	Date 30/11/2023	Time 10:30 A.M	Temperature 28°C	pH 8.4	Quantity Drawn:2L	Sampling Method: EETNE/SOP/02

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
1	pH	---	8.42	APHA 23 rd Edition 2017,4500-H ⁺ B, Page no: 4-95 / IS 3025 (Part 11) Electrometric Method	6.5-8.5
2	Turbidity	NTU	4.5	IS 3025 (Part 4)	5
3	TDS	mg/L	186.4	IS 3025 (Part 16)	2000
4	TSS	mg/L	91.3	IS 3025 (Part 18)	---
5	Oil and Grease	mg/L	<5	APHA 23 rd Edition 2017,5520 B, Page:5-42	---
6	Dissolved Oxygen	mg/L	7.4	APHA 23 rd Edition 2017,4500-O C,Page:4-146	---
7	Total hardness	mg/L	320	IS 3025 (Part 21)	600
8	Calcium	mg/L	121.8	IS 3025 (Part 40)	200
9	Magnesium	mg/L	67.2	IS 3025 (Part 46)	100
10	Total Alkalinity	mg/L	385.6	IS 3025 (Part 23)	600
11	Sulphate	mg/L	28.7	APHA 23 rd Edition 2017,4500-SO ₄ ²⁻ E,Page:4-199	400
12	Nitrates	mg/L	8.2	APHA 23 rd Edition 2017,4500-NO ₃ ⁻ B,Page:4-127	---
13	Phosphate	mg/L	<0.02	APHA 23 rd Edition 2017, 4500-P D, Page no:4-163	---

Page 1 of 2

RECOGNIZED BY POLLUTION CONTROL BOARD, ASSAM

Sample ID No: EETNE/DEC/06/23
Test Starting Date: 04/12/2023

Date of sample receipt: 04/12/2023
Test completion Date: 11/12/23

Sl No.	Parameters	Unit	Result	Reference Method	IS 10500:2012
					Permissible Limit
14	Salinity	%	0.4	APHA 23 rd Edition 2017, 2520B, Page: 2-60	-----
15	Conductivity	µS/cm	310	APHA 23 rd Edition 2017, 2510B, Page:2-58	2500
16	Arsenic	mg/L	BDL	APHA 23 rd Edition 2017, 3114B, Page:3-36	0.05
17	Iron(as Fe)	mg/L	0.851	APHA 23 rd Edition 2017,3500-Fe B,Page:3-80	-----
18	Total Coliform	MPN/100	2	APHA 23 rd Edition 2017, 9222B, Page:9-81	Shall not be detectable in any 100 ml Sample
19	Fecal Coliform	MPN/100	Nil	APHA 23 rd Edition 2017, 9222 D, Page:9-89	Shall not be detectable in any 100 ml Sample
20	BOD	mg/L	9.3	APHA 23 rd Edition 2017,5210 B,Page:5-6/ IS 3025 (Part 44)	-----
21	COD	mg/L	28.1	APHA 23 rd Edition 2017, 5220-B, Page No: 5-18	-----

NOTE: (BOD) Biochemical Oxygen Demand, (COD) Chemical Oxygen Demand, (TSS) Total Suspended Solids, (TDS) Total Dissolved Solids.

For Envision Enviro Technologies North East, Guwahati

Khairul Islam Sheikh
13/12/23

KHAIRUL ISLAM SHEIKH
Environmental Chemist
Test Done By



UTPAL BEZBARUAH
Technical Manager
Authorized Signatory/Reviewed By

Note: i) The results relate only to the parameters tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory
iii) Parameter no.11 to 19 are analyzed by Department of Chemistry, B. Borooah, College as per our MOU.
End of report

Page 2 of 2



Recognized by Pollution Control Board, Assam TC-7669

SOIL ANALYSIS REPORT

Rep.No: 230824_1502010_0

Date: 24/08/23

Name & Address of Client	M/s. BVG India Ltd, Midas Tower, 4 th Floor, Rajiv Gandhi Infotech Park, Phase-1, Hinjwani
Sample Description	Soil collected from Project site(Package 1)
Date of Sampling	24.08.23
Sample collected by	M/s. En-vision Enviro Technologies North East

Sl No.	Soil Parameters	Unit	Result	Reference Method
1	pH	---	7.42	Potentiometric
2	Soil type	----	Loamy Sand	Hydrometer
	Sand	%	68.99	Hydrometer
	Clay	%	13.54	Hydrometer
	Silt	%	13.17	Hydrometer
3	Nitrogen	kg/ha	123.3	Alkaline KMnO ₄
4	Phosphorus	mg/kg	45.3	Olsen method
5	Potassium	mg/kg	53.6	NH ₄ -acetate extraction
6	Electrical conductivity	mS/cm	2.25	Conductivity meter
7	Water holding capacity	%	40.6	Standard method

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Phone : +91 98640 10097 / 70026 10116 ♦ e-mail : envisonghy@gmail.com



Sl No.	Parameters	Unit	Result	Reference Method
8	Organic matter	%	1.44	Titrimetric
9	Salinity	mS/cm	2.36	Conductometric
10	Iron	g/kg	42.4	Flame AAS (mg/kg)
11	Copper	mg/kg	15.6	Flame AAS
12	Nickel	mg/kg	6.62	Flame AAS
13	Manganese	g/kg	18.2	Flame AAS (mg/kg)
14	Zinc	mg/kg	26.8	Flame AAS
15	Chlorides	mg/kg	132.8	Argentometric

For En-vision Enviro Technologies North East, Guwahati



UTPAL BEZBARUAH
(Technical Manager)
Authorized signatory

Note: i) The results relate only to the parameter tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Parameters no. 4, 10 to 15 are analyzed by Department of Chemistry B.Borooah college as per MOU.

END OF REPORT

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandman, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com

Soil Test results CP-4



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাৰ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/25	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Soil	Date of sampling: 24/12/2023
Sampling Location: Near AP 1/0 (Location GPS: 25.98537°N, 92.92491°E)	Analysis Start Date: 24/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	Analysis End Date: 30/12/2023

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH value(1:2.5) at 25 Deg. C	None	6.09	IS 2720 (Part 26) 1987;Rffm:2011
2	Conductance	(mS/cm)	0.436	IS 14767 (2000)
3	Organic Carbon	%	1.79	IS 2720 (Part 22) 1972;Rffm:2010
4	Available Nitrogen	%	0.037	Soil testing manual, Department of Agriculture & Cooperation Ministry of Agriculture Government of India, 2011
5	Available Phosphorus	%	0.92	
6	Available Potassium	%	0.051	
7	Available Sulphur	%	0.044	
8	Zinc	mg/kg	302	
9	Copper	mg/kg	276	
10	Iron	mg/kg	924	
11	Manganese	mg/kg	205	
12	Boron	mg/kg	43	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাইন্টিক সার্ভিসেস
एबीएनएस साइंटिफिक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাৰ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/24	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Soil	Date of sampling: 24/12/2023
Sampling Location: Near 87/0 (Location GPS: 25.696493°N, 92.806508°E)	Analysis Start Date: 24/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	Analysis End Date: 30/12/2023

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH value(1:2.5) at 25 Deg. C	None	5.83	IS 2720 (Part 26) 1987;Rffm:2011
2	Conductance	(mS/cm)	0.384	IS 14767 (2000)
3	Organic Carbon	%	1.51	IS 2720 (Part 22) 1972;Rffm:2010
4	Available Nitrogen	%	0.069	Soil testing manual, Department of Agriculture & Cooperation Ministry of Agriculture Government of India, 2011
5	Available Phosphorus	%	0.44	
6	Available Potassium	%	0.092	
7	Available Sulphur	%	0.032	
8	Zinc	mg/kg	296	
9	Copper	mg/kg	317	
10	Iron	mg/kg	788	
11	Manganese	mg/kg	160	
12	Boron	mg/kg	62	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023

Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ চাইন্টিফিক সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাথ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/23	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Soil	Date of sampling: 24/12/2023
Sampling Location: Near 58/0 (Location GPS: 25.750729°N, 92.897825°E)	Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH value(1:2.5) at 25 Deg. C	None	6.15	IS 2720 (Part 26) 1987;Rffm:2011
2	Conductance	(mS/cm)	0.402	IS 14767 (2000)
3	Organic Carbon	%	1.32	IS 2720 (Part 22) 1972;Rffm:2010
4	Available Nitrogen	%	0.082	Soil testing manual, Department of Agriculture & Cooperation Ministry of Agriculture Government of India, 2011
5	Available Phosphorus	%	0.39	
6	Available Potassium	%	0.082	
7	Available Sulphur	%	0.025	
8	Zinc	mg/kg	319	
9	Copper	mg/kg	276	
10	Iron	mg/kg	1210	
11	Manganese	mg/kg	209	
12	Boron	mg/kg	72	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএস চাৰেণ্টিফিক চাৰ্ভিচ
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, ৱেডিংসন ব্লু কে পাৰ, এন এছ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/22	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034, ASSAM	
Sample Description: Soil	Date of sampling: 23/12/2023
Sampling Location: Near 37/1 (Location GPS: 25.848898°N, 92.946102°E)	Analysis Start Date: 24/12/2023
Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	Analysis End Date: 30/12/2023

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH value(1:2.5) at 25 Deg. C	None	5.63	IS 2720 (Part 26) 1987;Rffm:2011
2	Conductance	(mS/cm)	0.432	IS 14767 (2000)
3	Organic Carbon	%	1.56	IS 2720 (Part 22) 1972;Rffm:2010
4	Available Nitrogen	%	0.091	Soil testing manual, Department of Agriculture & Cooperation Ministry of Agriculture Government of India, 2011
5	Available Phosphorus	%	0.27	
6	Available Potassium	%	0.091	
7	Available Sulphur	%	0.035	
8	Zinc	mg/kg	209	
9	Copper	mg/kg	280	
10	Iron	mg/kg	910	
11	Manganese	mg/kg	186	
12	Boron	mg/kg	54	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)



ABNS SCIENTIFIC SERVICES

এবিএনএচ চাইনিক্যালিক্যাল সার্ভিসেস
एबीएनएस साइंटिफीक सर्विसेज

H-152, Keteki Path, near Radisson Blu, NH 27, Guwahati 781033, Assam

কেতেকী পথ, রেডিসন ব্লু কে পাশ, এন এড্‌চ ২৭, গুৱাহাটী ৭৮১০৩৩, অসম

Email: info@abnsscientific.com, abnsscientific@gmail.com

Phone: 98640 68513, 98640 89951

TEST REPORT

Report Number: ABNS/EM/123123/21	Report date: 31/12/2023
Name & Address of the Customer: M/S SALASAR TECHNO ENGINEERING LIMITED 2ND FLOOR, 205, AMRIT ENCLAVE, GANAPATI NAGAR, LALGANESH GUWAHATI, KAMPUP(M), GUWAHATI-781034. ASSAM	
Sample Description: Soil Sampling Location: Lalungdubi Gaon (Location GPS: 25.891291°N, 92.922225°E) Ref: PO No: AS-SPOE/23-24/7, dated:21/04/2023	Date of sampling: 23/12/2023 Analysis Start Date: 24/12/2023 Analysis End Date: 30/12/2023

ANALYSIS RESULT

Sl. No.	Test Parameters	Unit	Result	Method
1	pH value(1:2.5) at 25 Deg. C	None	6.37	IS 2720 (Part 26) 1987;Rffm:2011
2	Conductance	(mS/cm)	0.392	IS 14767 (2000)
3	Organic Carbon	%	1.49	IS 2720 (Part 22) 1972;Rffm:2010
4	Available Nitrogen	%	0.027	Soil testing manual, Department of Agriculture & Cooperation Ministry of Agriculture Government of India, 2011
5	Available Phosphorus	%	0.19	
6	Available Potassium	%	0.087	
7	Available Sulphur	%	0.031	
8	Zinc	mg/kg	372	
9	Copper	mg/kg	319	
10	Iron	mg/kg	1020	
11	Manganese	mg/kg	297	
12	Boron	mg/kg	61	

Note: The results relate to the parameter tested only.

-----End of Report-----

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)



Mayur Jyoti Mahanta
31/12/2023
Authorized Signatory
(Dr. Mayur Jyoti Mahanta)

Soil Test reports CP-3

Recognized by Pollution Control Board, Assam

SOIL ANALYSIS REPORT

Rep.No: 230825_1503163_0

Date: 25/08/23

Name & Address of Client	M/s. ANDRITZ HYDRO PVT. LTD., LKHEP Project ,village-Longku ,Dist- Dima Hasao, Pin- 788931.
Sample Description	Pre Construction Stage
Date of Sampling	20/08/23
Sample collected by	M/s. En-vision Enviro Technologies North East

SI No.	Soil Parameters	Unit	Result	Reference Method
1	p ^H	---	7.24	Potentiometric
2	Soil type	---	Silt highly organic clay	Hydrometer
	Permeability of soil	Cm/sec	1.1×10^{-6}	Constant head test method
	Sand	%	74.6	Hydrometer
	Clay	%	11.2	Hydrometer
	Silt	%	21.4	Hydrometer
3	Nitrogen	kg/ha	88.3	Alkaline KMnO ₄
4	Phosphorus	mg/kg	10.8	Olsen method
5	Potassium	mg/Kg	32.4	NH ₄ -acetate extraction
6	Electrical conductivity	mS/cm	10	Conductivity Meter
7	Water holding capacity	%	20.5	Standard method
8	Organic matter	%	6.1	Titrimetric

Page 1 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmani, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envisionghy@gmail.com



TC-7669

Recognized by Pollution Control Board, Assam

Sl No.	Parameters	Unit	Result	Reference Method
9	Organic Carbon	%	4.14	Rapid Dichromate Oxidation Technique
10	Iron	g/kg	30.6	Flame AAS(mg/kg)
11	Copper	mg/kg	8.9	Flame AAS
12	Nickel	mg/kg	13.4	Flame AAS
13	Manganese	g/kg	7.6	Flame AAS(mg/kg)
14	Zinc	mg/kg	34.5	Flame AAS
15	Arsenic	mg/kg	4.2	HG- AAS
16	Cadmium	mg/kg	0.02	Flame AAS
17	Lead	mg/kg	4.4	Flame AAS
18	Chromium	mg/kg	6.8	Flameless AAS
19	Aluminum	mg/kg	BDL	Flameless AAS

For En-vision Enviro Technologies North East, Guwahati

UTPAL BEZBARUAH
 (Technical Manager)
 Authorised Signatory

Note: i) The results relate only to the parameter tested.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.
 iii) Parameter no.9 to 19 are analysed in B. Booroah College as per our MOU.
End of Report

Page 2 of 2

House No. 6, 1st Floor, Sankardev Path, Pub-Sarania, Chandmarí, Guwahati-781003, Assam.

Phone : +91 98640 10097 / 70028 10116 ♦ e-mail : envislonghy@gmail.com

Recognized by Pollution Control Board, Assam

SOIL ANALYSIS REPORT

Rep.No: 230902_1503165_0

Date: 25/08/23

Name & Address of Client	M/s. ANDRITZ HYDRO PVT. LTD., LKHEP Project ,village-Longku ,Dist- Dima Hasao, Pin- 788931.
Sample Description	NEAR VALVE HOUSE
Date of Sampling	20/08/23
Sample collected by	M/s. En-vision Enviro Technologies North East

SI No.	Soil Parameters	Unit	Result	Reference Method
1	p ^H	---	6.79	Potentiometric
2	Soil type	---	Silt highly organic clay	Hydrometer
	Permeability of soil	Cm/sec	1.1×10 ⁻⁶	Constant head test method
	Sand	%	60.2	Hydrometer
	Clay	%	11.4	Hydrometer
	Silt	%	28.4	Hydrometer
3	Nitrogen	kg/ha	0.086	Alkaline KMnO ₄
4	Phosphorus	mg/kg	13.5	Olsen method
5	Potassium	mg/Kg	14	NH ₄ -acetate extraction
6	Electrical conductivity	mS/cm	16	Conductivity Meter
7	Water holding capacity	%	22	Standard method
8	Organic matter	%	0.65	Titrimetric

Page 1 of 2



SI No.	Parameters	Unit	Result	Reference Method
9	Organic Carbon	%	4.19	Rapid Dichromate Oxidation Technique
10	Iron	g/kg	83.5	Flame AAS(mg/kg)
11	Copper	mg/kg	6.2	Flame AAS
12	Nickel	mg/kg	3.7	Flame AAS
13	Manganese	g/kg	63.12	Flame AAS(mg/kg)
14	Zinc	mg/kg	0.87	Flame AAS
15	Arsenic	mg/kg	0.003	HG- AAS
16	Cadmium	mg/kg	<0.001	Flame AAS
17	Lead	mg/kg	0.002	Flame AAS
18	Chromium	mg/kg	<0.001	Flameless AAS
19	Aluminum	mg/kg	BDL	Flameless AAS

For En-vision Enviro Technologies North East, Guwahati


UTPAL BEZBARUAH
 (Technical Manager)
 Authorised Signatory

- Note: i) The results relate only to the parameter tested.
 ii) The test report shall not be reproduced except in full, without written approval of laboratory.
 iii) Parameter no.9 to 19 are analysed in B. Booroah College as per our MOU.

End of Report

Page 2 of 2



SOIL ANALYSIS REPORT

Rep.No: 230902_1503164_0

Date: 25/08/23

Name & Address of Client	M/s. ANDRITZ HYDRO PVT. LTD., LKHEP Project ,village-Longku ,Dist- Dima Hasao, Pin- 788931.
Sample Description	NEAR SERVICE BAY
Date of Sampling	20/08/23
Sample collected by	M/s. En-vision Enviro Technologies North East

Sl No.	Soil Parameters	Unit	Result	Reference Method
1	p ^H	---	6.93	Potentiometric
2	Soil type	---	Silt highly organic clay	Hydrometer
	Permeability of soil	Cm/sec	1.1×10 ⁻⁵	Constant head test method
	Sand	%	67.3	Hydrometer
	Clay	%	9.4	Hydrometer
	Silt	%	23.3	Hydrometer
3	Nitrogen	kg/ha	0.072	Alkaline KMnO ₄
4	Phosphorus	mg/kg	11.4	Olsen method
5	Potassium	mg/Kg	14.6	NH ₄ -acetate extraction
6	Electrical conductivity	mS/cm	12	Conductivity Meter
7	Water holding capacity	%	18.4	Standard method
8	Organic matter	%	0.67	Titrimetric



Sl No.	Parameters	Unit	Result	Reference Method
9	Organic Carbon	%	4.14	Rapid Dichromate Oxidation Technique
10	Iron	g/kg	88.6	Flame AAS(mg/kg)
11	Copper	mg/kg	5.8	Flame AAS
12	Nickel	mg/kg	3.4	Flame AAS
13	Manganese	g/kg	78.6	Flame AAS(mg/kg)
14	Zinc	mg/kg	11.2	Flame AAS
15	Arsenic	mg/kg	6.2	HG- AAS
16	Cadmium	mg/kg	0.01	Flame AAS
17	Lead	mg/kg	0.03	Flame AAS
18	Chromium	mg/kg	<0.02	Flameless AAS
19	Aluminum	mg/kg	BDL	Flameless AAS

For En-vision Enviro Technologies North East, Guwahati


UTPAL BEZBARUAH
(Technical Manager)
Authorised Signatory

- Note: i) The results relate only to the parameter tested.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.
iii) Parameter no.9 to 19 are analysed in B. Booroah College as per our MOU.

End of Report

Page 2 of 2



Recognized by Pollution Control Board, Assam

STACK ANALYSIS REPORT

TEST REPORT

Rep.No. SAR_1503163_01_335
Sample ID No.: EETNE/OCT/01/23

Date: 19/10/2023
ULR NO.: TC766923000000070F

Issued to : M/s. Lower Kopili HEP Project, Lanku, Dist.- Dima Hasao, Assam.

Sample Drawn By : UTPAL BEZBARUAH
Sampling Plan & Procedure : EETNE/SOP/01
Analysis Duration : 13/10/2023 TO 19/10/2023
Sampling Instrument Used : FLUE GAS ANALYZER/STACK KIT
Pollution Control Device, if any : NO/YES
Ambient Temperature : 25°C

SL.NO.	DATE OF SAMPLING	STACK DESCRIPTION	MODEL	PARAMETERS Particulate Matter (g/kwhr)
i)	13-10-2023	Stck attached to DG 1- 40 KVA	X3.6TAA-G2	0.028
ii)		Stck attached to DG 2- 125 KVA	2018	0.017
iii)		Stck attached to DG 3- 180 KVA	6CTA8.3-G2-1	0.016
iv)		Stck attached to DG 4- 250 KVA	6CTA8.3G4	0.018
v)		Stck attached to DG 5- 500 KVA	3412-DITA-GP1	0.019
vi)		Stck attached to DG 6- 1000 KVA	KTA-3067-G	0.029


Method of analysis: IS 11255 Part-III : 2008 RA

Emission Standards for Diesel Engine for generator set :

Engine Power(P)	Parameter	Standards
19P<P≤56KW	Particulate Matter	0.03 g/kwhr
56<P≤560KW	Particulate Matter	0.02 g/kwhr
560<P≤800KW	Particulate Matter	0.03 g/kwhr


Khairul-Islam Sheikh
(Environmental Chemist)

For Enviro Technologies North East, Guwahati


Utpal Bezbaruah
(Technical Manager) Authorized/Reviewed by

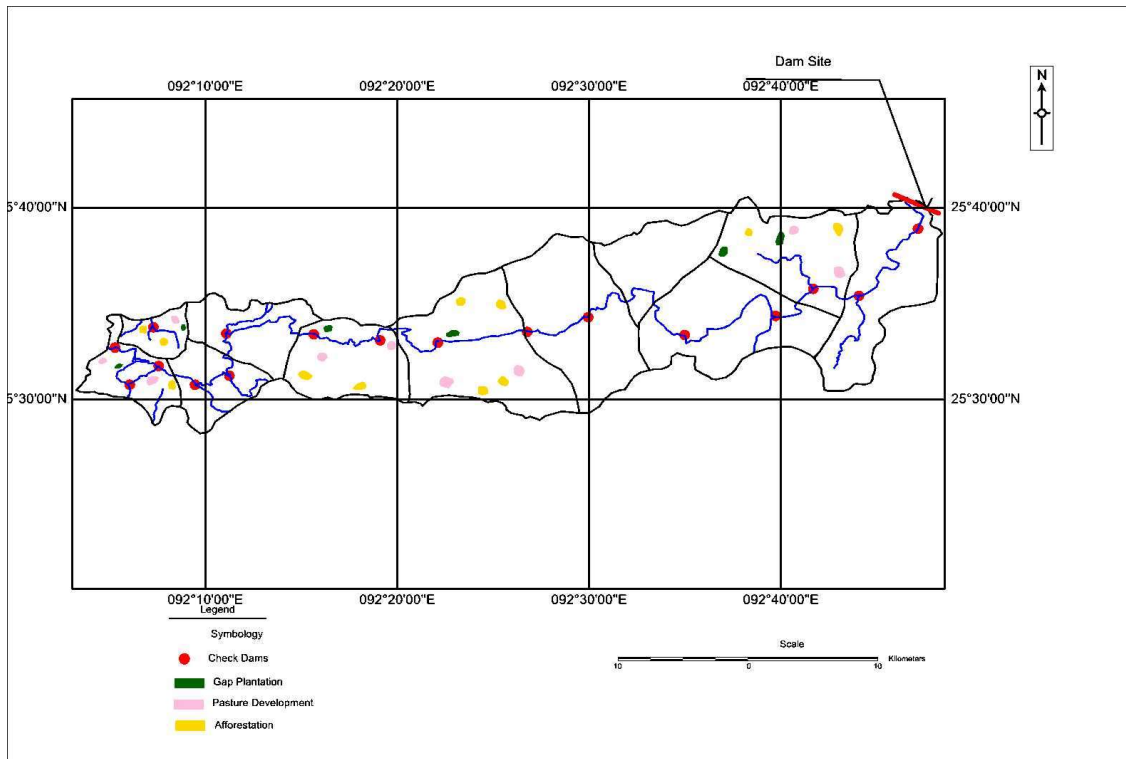
Note: i) The results relate to the tested parameters & items sample.
ii) The test report shall not be reproduced except in full, without written approval of laboratory.

-----END OF REPORT-----

Page 1 of 1

Annexure 11 : Land Bank Map of CAT Plan

Catchment Area Treatment Measures for Lower Kopili Catchment





ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulce Bhawan, 3rd floor, Paltanbazar, Guwahati-781 001, Assam

Status of R&R plan implementation

Statement on implementation of Resettlement & Rehabilitation (R&R) plan (CRTDP) for Lower Kopili Hydro Electric Project, APGCL, Longku as on 27th June 2024 is furnished below

1. Land compensation
 - a) Dima Hasao = Rs. 44.58 Crore (completed)
 - b) Karbi Anglong = Rs. 7.05 Crore (completed)
2. R&R assistances & allowances
 - a) Dima Hasao = Rs 52.51 Crore (completed)
 - b) Karbi Anglong = Rs. 11.32 Crore (completed)

Total amount of Rs. 115.46 Crore (Rupees One Hundred Fifteen Crore Forty Six Lakh) has been disbursed so far under the plan covering both district of Dima Hasao & Karbi Anglong of Assam.

28.06.24
Deputy General Manager(F&A)
O/o the M.D. APGCL
Paltanbazar, Guwahati-1



ASSAM POWER GENERATION CORPORATION LIMITED

Registered Office: Bijulee Bhawan, Paltanbazar, Guwahati-781 001, Assam.

CIN:U40101AS2003SGC007239

Tele: 0361-2739 502; FAX: 0361-2739 546/22

E-mail: apgcl_md@yahoo.com; Website: www.apgcl.org

QUALITY, ENVIRONMENTAL, OCCUPATIONAL HEALTH & SAFETY POLICY

OUR AIM

- *To meet the ever increasing demand for electrical power by generating reliable power at competitive cost.*
- *To minimize the impact on environment while generating power.*
- *To minimize the occupational health and safety risk of all people involved in operation and maintenance of the power plants.*

OUR COMMITMENTS

- *To comply with various quality parameters specified by electricity authorities related to power generation.*
- *To comply with all environmental, occupational health & safety related legal and other requirements enacted by the Central and the State Governments.*
- *To continually improve the effectiveness of quality, environmental, occupational health & safety management system to enhance stakeholder satisfaction.*

OUR ENDEAVOUR

- *To continually improve productivity through planned operations and preventive maintenance.*
- *To adopt proactive measures for preservation of nature and reduction of work related risks.*
- *To motivate employees and all other personnel working under us to continually enhance quality, productivity, environmental, safety & occupational health performance through training and other relevant activities.*

Guwahati

Date: 30.09.2015

(Managing Director)



Minutes of the Meeting of the 3rd Multidisciplinary Committee (MDC) in respect of 120 MW Lower Kopili Hydro Electric Project (LKHEP) in the districts of Dima Hasao and Karbi Anglong, Assam held on 11th June, 2023 at Assam Power Generation Corporation Limited, Langku, Dima Hasao.

Shri. Mridul Saikia, Chief General Manager (PP&I), APGCL cum Project Director LKHEP was the guest of honour of the 3rd MDC. At the onset he welcomed all the members present and briefed about the overall project progress and explained the purpose of MDC. As per one of the stipulations of Environment Clearance (EC), accorded by MoEF&CC, vide No. J-12011/26/2012-IA-I. Dated 4th September, 2019, Multi-Disciplinary Committee (MDC) was constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project.

A brief presentation highlighting the Environment Clearance stipulations and the compliance adhered so far with the salient features of the project along with the possible impact and the mitigation plan suggested in the EMP of EIA was given by Jayanta Das, Environment Specialist of PMC. Action taken on the corrective action plan suggested during the site visit of the Head of IRO, MoEF&CC, Guwahati were also discussed.

1. During the site visit it was observed that the sedimentation tank constructed for treatment of the wastewater of the batching plant (dam) was not adequate. Moreover, the removal of cement slurry from the tank was also not frequent as a result the cement slurry was overtopping the road. Mr. Hemen Hazarika, Additional Director, IRO, MoEF&CC requested APGCL to instruct the CP -2 contractor to construct additional sedimentation tanks and to take necessary measures immediately so that the adjacent forest land and the natural drainage are not contaminated or choked by the cement slurry from the dam batching plant.
2. Mr. Hazarika also requested to submit the detail of the R&R assistance along with the six-monthly compliance report. APGCL submits the information to the ADB in the six-monthly Social Monitoring Reports.
3. While discussing the corrective action, Additional Director of MoEF&CC enquired about the status of installation of water intake meter by CP-2 contractor for the water treatment plant. APGCL informed that the water meter was already purchased and will be installed within a week in the Water treatment plant.
4. Regarding the slope protection and soil stabilization measures, PD, APGCL informed that the scope of the work is being examined by PMC. Mr. Chandan Jyoti Saikia, Additional Director, Hills, Soil Conservation Division, Assam apprised the members that Mr. Malakar a retired Engineer from Soil Conservation Department is helping Karbi Anglong Autonomous Council in land scaping and soil stabilization. For this project if required he may also be consulted. After observing the slope protection measure failure in few patches along the road near Dam top, Mr Hazarika of MoEF&CC suggested to consult Mr Raju Babu, retired professor of JNU, who is expert in soil stabilization. After finalization of the scope APGCL may consider to consult one of the experts.
5. Shri. Sanjoy Tamuli, Sub Divisional Fisheries Development Officer, CMSGUY Cell, Directorate of Fisheries, Assam suggested to incorporate pisciculture in the

reservoir under Local Area Development (LAD) if the water quality improves in future. He also referred to cage fish cultivation which is practised in other states. Cage culture practise are with a round or square shape floating net installed in reservoir (battery) which hold and culture large number of fishes. A catwalk and handrail are built around a battery of floating cages. During the site visit APGCL showed 1.5 ha of land on the edge of the reservoir in Tortelangso village which can be used for preparation of hatcheries to promote fish culture in the area. After receiving the area details, Mr Tamuli will support to develop a fishery development plan from the Department of Fisheries, GoA.

6. APGCL will share the approved Local Area Development Plan with MoEF&CC shortly.

The meeting ended with a vote of thanks from the chair.



Project Director (PMU)
LKHEP, APGCL

Annexure 1: Attendance sheet of 3rd MDC, at Longku, DH held on 11.12.23.

Attendance sheet for the 3rd MDC meeting held on 11.12.2022 at Lower Kopili H.E. Project, Longku

Time: 11:30 am



Sl No	Name	Designation	Signature	Email	Contact number
1	Abdul Saikia	PD, APGCL			98640-17180
2	Jensandar Rongga	GM'y, LKHEP		jensandar.rongga@apcl.org	8635014201
3	Shashi Kumar	DT Team leader P.M.C. - AFRT		Shashi.kumar@afry.com	9622466550
4	Bilash Bharati	IGM (PP&J), APGCL		bilash.bharati@apcl.org	9135016490
5	Dr. Haroon Anwar	Asst. Director/Sci.E		haroon.a@afry.in	9101055161
6		MOEFCC, SO Guwahati			
7	C. J. Saikia	Asst. Director Soil Conservation Deptt., Diphu		cjsaikia@gmail.com	8638026986 9475351943
8	DR Jayantas Das	Env. Specialist P.M.C		jayantas.das@afry.com	9435406966
9	Souryam Singh	Soil & Water EXPERT, P.M.C. - AP		souryam.singh@afry.com	9992432700
10	Sanjay Tamuli	Sub-Divisional Forestry Development Officer (SDFDO)		sanjay.tamuli@gmail.com	9085500888
11	Pranab Baruah	Env. Expert - APGCL		pranab.baruah07@gmail.com	9435113521
12					

12. Dr Pranab Bujarbaruah, Department of Botany, Handique Girls College, attended virtually.



Site Visit of MDC members

Annexure 15 Record of water log of ground water abstraction of CP-1 (Sample).

WATER LOG

Date	Day Reading	Cummulative Reading	Date	Day Reading	Cummulative Reading
06/01/24	18	4348	8/2/24	8	4858
07/01/24	17	4365	9/2/24	13	4971
08/01/24	19	4384	10/2/24	12	4883
09/01/24	16	4400	11/2/24	10	4893
10/01/24	16	4416	12/2/24	13	4906
11/01/24	15	4431	13/2/24	11	4917
12/01/24	18	4449	14/2/24	12	4929
13/01/24	12	4461	15/2/24	13	4942
14/01/24	10	4471	16/2/24	8	4950
15/01/24	13	4484	17/2/24	9	4959
16/01/24	15	4499	18/2/24	10	4969
17/01/24	17	4516	19/2/24	11	4980
18/01/24	19	4535	20/2/24	12	4992
19/01/24	15	4550	21/2/24	13	5005
20/01/24	24	4574	22/2/24	14	5019
21/01/24	20	4594	23/2/24	9	5028
22/01/24	18	4612	24/2/24	11	5039
23/01/24	17	4629	25/2/24	13	5052
24/01/24	16	4645	26/2/24	9	5061
25/01/24	18	4663	27/2/24	10	5071
26/01/24	19	4683	28/2/24	14	5085
27/01/24	20	4702	29/2/24	13	5098
28/01/24	21	4723			
29/01/24	19	4741			
30/01/24	15	4756			
31/01/24	16	4772			
1/2/24	13	4785			
2/2/24	10	4795			
3/2/24	11	4806			
4/2/24	9	4815			
5/2/24	10	4825			
6/2/24	13	4838			
7/2/24	12	4850			