



HFRP/ENV/2026-27/289

Date: 29/05/2026

To,

Deputy Director General of Forests (C),  
Regional Office (EZ),  
Ministry of Environment, Forest and Climate change  
A/3, Rail Vihar, Chandrashekharpur, Bhubaneswar- 751023

**Subject: - Six monthly EC Compliance report of M/s Hindalco Industries Limited, Unit- Hirakud FRP, Village Jamda, Jamda Nimpali Post- Hirakud, District Sambalpur (Odisha).**

Ref: - EC identification no. EC22B008OR159944 granted on dated 04.07.2022

Dear Sir,

Kindly refer to the above subject matter; we are submitting the six-monthly EC compliance report for the period October 2025 to March 2026 by M/s Hindalco Industries Limited Unit- Hirakud FRP at Village Jamda, Post- Hirakud District Sambalpur (Odisha).

Kindly acknowledge the receipt of this letter.

Thanking you,  
**Yours Truly,**  
For, **M/s Hindalco Industries Limited**

**Unit Head, Hirakud FRP**  
**(Authorized Signatory)**

**Encl-As above**

**Cc To:**

1. Member Secretary, State Environment Impact Assessment Authority (SEIAA), Odisha, 5RF-2/1, Unit IX, Bhubaneswar- 751022, Tel.-0674-2541029
2. The Member Secretary, State Pollution Control Board, Odisha, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit- VIII, Bhubaneswar – 751012
3. Regional Director, Central Pollution Control Board, Eastern Zonal Office, 502, South End Conclave, 1582, Rajdanga Main Road Kolkata- 700107
4. The Regional Officer, State Pollution Control board, Sambalpur, Odisha- 768016

Hindalco Industries Limited

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Corporate ID No.: L27020MH1958PLC011238

<b>Name of Unit</b>	M/s. Hindalco Industries Limited, Hirakud FRP, Hirakud District Sambalpur, Odisha- 768016
<b>Name of Project</b>	Proposed Expansion of Existing FRP plant from 1.35 Lac TPA [Hot Rolled Coil (HRC) & Cold Rolled Coil (CRC)] to 5.85 Lac TPA Hot Rolled Coil (HRC) including existing 1.35 Lac TPA Cold Rolled Coil (CRC) at Villages Jamda and Jamda (Nimpali), Tehsil Hirakud, District Sambalpur (Odisha)
<b>SEIAA File No.</b>	73998/28-IND/04-2022
<b>EC Identification No.</b>	EC22B008OR159944

<b>Sl No.</b>	<b>Conditions</b>	<b>Compliance Status</b>
<b>Part A: Specific Conditions: -</b>		
<b>1</b>	Dross generation shall be recycled and the project shall have proper utilization plan for its complete and safe management.	The Cast House has been commissioned with effect from 02.01.2026. Dross generated from the Cast House operations is being systematically disposed of through a recycler duly authorized by the State Pollution Control Board (SPCB), Odisha. The generated dross is thus being managed in a safe and environmentally compliant manner, ensuring its complete recycling and proper utilization as per regulatory requirements.
<b>2</b>	The project proponent shall make mandatory provision of 5% of solar power of the total demand of 55,000 KVA.	Installation of a <b>695-kW rooftop solar power plant</b> has been completed, which is approximately <b>1.26%</b> of the total power demand. The system is operational and contributing to renewable energy usage within the facility. Further augmentation shall be undertaken in a phased manner to meet the stipulated requirement.
<b>3</b>	This EC is recommended without prejudice to that fact that the operation of this unit without EC since order of the Hon'ble NGT dated 12.02.2020 shall be dealt with as will be decided by MOEF&CC and /or Hon'ble NGT or any other appropriate authority or court of law in the matter as to the requirement of EC or not for such units.	The project proponent undertakes to fully comply with any decision or directions issued by MoEF&CC, Hon'ble NGT, or other appropriate authority in this regard. Continuous adherence to applicable environmental regulations and statutory requirements is being ensured.
<b>Part B: Statutory Compliance: -</b>		
<b>4</b>	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.	No forest land involved in the FRP existing as well as proposed expansion area, therefore forest diversion is not applicable for this project.
<b>5</b>	The project proponent shall obtain clearance from the National Board for Wildlife, If applicable.	Project not falling under any ESZ, hence obtaining clearance from the National Board for Wildlife is not required.
<b>6</b>	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife	

	Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of schedule -I species in the study area)	No schedule-1 fauna has been reported/found in the 10 km radius area on the plant site. The inventory list of flora and fauna has been verified and authenticated by the office of DFO Sambalpur.
7	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.	Consent to Established obtained vide letter no. 10341-IND-II-CTE-6697 on dated 13.06.2022 and current CTO is issued vide letter no. 22950/IND-I-CON-6394 dated 30.12.2025, valid till 31.03.2028.
8	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water/ from the competent authority concerned in case of drawl of surface water required for the project.	We are not using any ground water for any of our operational requirements. Therefore, permission from the Central Ground Water Authority is not applicable.
9	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	We have obtained hazardous waste authorization from SPCB vide Letter No. IND- IV- HW- 991/7633, Dated 18.05.2026 and valid till 31.03.2028
10	The proponent shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of project report.	Demister installed at CRM, HFM and HRM in the existing facilities and proposed pollution control measures and safeguards will be installed in the expansion projects.
11	All the compliances submitted / committed by PP(s) shall be strictly adhered to by them.	We have noted and accepted.

#### I. Air Quality Monitoring and Preservation:

1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission and connect to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	03 Nos. of Continuous Emission Monitoring Systems (CEMS) have been installed and are operational at the process stacks with successful connectivity to CPCB and OSPCB servers for real-time data transmission. Calibration of these systems is being carried out on a quarterly basis through the OEM as well as NABL-accredited laboratories, and calibration reports are regularly submitted to CPCB and OSPCB for compliance. Further, installation of <b>02 additional CEMS</b> has been completed. Connectivity of these systems to CPCB/SPCB servers is under progress and shall be commissioned shortly.																
2	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Fugitive emission monitoring is being carried out on quarterly basis through a NABL accredited laboratories and report is being submitted to OSPCB. The summary of the report is stated below- <table border="1" data-bbox="884 1888 1497 2020"> <thead> <tr> <th>Month</th> <th>Max</th> <th>Min</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>UOM</td> <td>µg/m3</td> <td>µg/m3</td> <td>µg/m3</td> </tr> <tr> <td>Dec'25</td> <td>348.0</td> <td>146.0</td> <td>204.8</td> </tr> <tr> <td>March'26</td> <td>496.0</td> <td>228.0</td> <td>365.6</td> </tr> </tbody> </table>	Month	Max	Min	Average	UOM	µg/m3	µg/m3	µg/m3	Dec'25	348.0	146.0	204.8	March'26	496.0	228.0	365.6
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3	The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common / criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Presently, Ambient Air Quality Monitoring is being carried out through manual sampling at three locations positioned at 120° intervals, covering key parameters such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , and NOx. Further, to meet the requirement of continuous monitoring, 04 Nos. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been ordered. Installation and commissioning of these systems are under progress. Intimation regarding installation and connectivity to SPCB/CPCB servers will be provided upon completion.
4	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality fugitive emissions to Regional Office of MoEF & CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.	Monthly Environmental Monitoring report is being submitted to SPCB. The details are stated below- <b>Annexure-1</b> 1. Monthly summary report of CEMS. 2. Monthly summary report of Manual Stack Emission. 3. Summary report of Manual Ambient Air Quality. 4. Summary report of Fugitive Emission Monitoring.
5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.	Currently Demister as Air Pollution Control (APC) system installed at all 03 Nos stacks. 2 nos of Road sweeping machine deployed to reduce haul road dust. Fugitive dust monitoring is carried out on quarterly basis.
6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	There is no bag filter requirement for the FRP operation. Therefore, leakage detection and mechanized bag cleaning facilities not required.
7	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	02 Nos of Road sweeping machine deployed which are cleaning the shop floor and outer area round the clock.
8	Recycle and reuse of collected material from pollution control devices and vacuum cleaning devices in the process.	We are sending all the Hazardous/Non-Hazardous waste to cement plant for co-processing.
9	The project proponent shall use leak proof trucks/ dumpers carrying coal and other raw materials and cover them with tarpaulin.	Our raw material for the FRP unit is Aluminum rolling Ingots only. Therefore, no covering is required during transportation.
10	The project proponent shall provide covered sheds for raw materials.	We are having covered shed to store all the raw material.
11	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Primary and secondary fume extraction systems have been installed at all melting furnaces to effectively capture and control fugitive and process emissions. The systems are operational and designed to ensure proper collection, treatment, and safe discharge of fumes in compliance with applicable environmental norms. Regular maintenance and performance monitoring are being carried out to ensure continued efficiency and regulatory compliance.
12	Design the ventilation system for adequate air changes at the melting furnaces.	A scientifically designed ventilation system has been implemented for the melting furnace area, ensuring adequate air changes (15–25

		ACH) through a combination of primary local exhaust ventilation and secondary dilution ventilation. The system includes hood-based fume extraction, ducting, air pollution control devices, and roof exhaust systems, maintaining negative pressure and effective removal of heat and emissions. The design ensures safe working conditions and compliance with applicable environmental and occupational health standards.
<b>II. Water Quality Monitoring and Preservation:</b>		
<b>13</b>	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules, 1986 and connect to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier's specification through labs recognized under Environment (Protection) Act, 1986 or NABL laboratories.	02 Nos of CEQMS installed and online data transferring to CPCB having URL <a href="https://rtdms.cpcb.gov.in/industry-status?id=8943&amp;st=live">https://rtdms.cpcb.gov.in/industry-status?id=8943&amp;st=live</a> . Quarterly calibration through labs recognized under Environment (Protection) Act, 1986 or NABL laboratories being done on regular basis.
<b>14</b>	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	We are using surface water from Hirakud reservoir through our CPP. However, we are conducting pre-monsoon & post-monsoon ground water quality monitoring through NABL accredited laboratory. Monitoring report is attached in <b>Annexure-02</b>
<b>15</b>	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal Office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	The monthly summary report of CEQMS and manual analysis report is being submitted to SPCB on monthly basis. The Summary report of CEQMS, Manual effluent testing report and manual monitoring of ground water is attached as <b>Annexure-03</b>
<b>16</b>	The project proponent shall adhere to "Zero Liquid Discharge".	We are maintaining zero liquid discharge. The entire effluent is getting treated in ETP and reused in process. Furthermore, we are aiming towards water positivity by 2030.
<b>17</b>	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	We have STP of 100 KLD for treatment of domestic wastewater. Monthly monitoring is being carried out through NABL approved lab and report submitting to OSPCB.
<b>18</b>	The project proponent shall provide the ETP for effluents.	We have ETP with RO of 300 KLD capacity to treat the effluent generated from plant area. Analysis report submitting to OSPCB on monthly basis.
<b>19</b>	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Drains and collection pits are provided to store the surface run-off in 750 M <sup>3</sup> capacity storage tank and excess water is discharged to outside during heavy rains and CEQMS installed to check the quality of water on continuous basis.
<b>20</b>	The project proponent shall practice rainwater harvesting to maximum possible extent.	
<b>21</b>	The project proponent shall make efforts to minimize water consumption in the plant complex by segregation of used water,	ETP Treated water being reused in process and STP treated water being reused in gardening and toilet flushing purpose.

	practicing cascade use and by recycling treated water.	
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**IV. Noise Monitoring and Prevention:**

<b>22</b>	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly compliance report.	<p>Noise level is being monitored through NABL approved lab at all three locations; result is well within the prescribed limit.</p> <p>Noise level Monitoring Report;</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Location</th> <th>Day/ Night</th> <th>Min</th> <th>Max</th> <th>Ave</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Canteen near Nitrogen Plant</td> <td>Day</td> <td>62.4</td> <td>65.8</td> <td>61.5</td> </tr> <tr> <td>Night</td> <td>51.2</td> <td>62.3</td> <td>53.0</td> </tr> <tr> <td rowspan="2">Near ADM Building</td> <td>Day</td> <td>54.2</td> <td>60.4</td> <td>58.4</td> </tr> <tr> <td>Night</td> <td>48.7</td> <td>54.1</td> <td>49.8</td> </tr> <tr> <td rowspan="2">Near Material Gate</td> <td>Day</td> <td>61.7</td> <td>73.2</td> <td>66.7</td> </tr> <tr> <td>Night</td> <td>52.4</td> <td>69.8</td> <td>56.5</td> </tr> </tbody> </table> <p>* Day time (6:00-22:00) Leq 75 dB (A) * Nighttime (22:00-6:00) Leq 70 dB (A)</p>	Location	Day/ Night	Min	Max	Ave	Canteen near Nitrogen Plant	Day	62.4	65.8	61.5	Night	51.2	62.3	53.0	Near ADM Building	Day	54.2	60.4	58.4	Night	48.7	54.1	49.8	Near Material Gate	Day	61.7	73.2	66.7	Night	52.4	69.8	56.5
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<b>23</b>	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75dB(A) during daytime and 70dB(A) during night time.	Noise level being monitored at all three locations, result is well within limit.																																

**V. Energy Conservation Measures:**

<b>24</b>	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of melting furnaces.	Not applicable.
<b>25</b>	The project proponent shall provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Installation of 695 KW roof top solar panel in the FRP premises has been completed.
<b>26</b>	The project proponent shall provide LED lights in their offices and residential areas.	We have provided LED based lights to conserve the energy.

**VI. Waste management:**

<b>27</b>	Used refractories shall be recycled as far as possible.	Agreed
<b>28</b>	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting furnaces.	Oily scum is collected at ETP and disposed through Co-Processing with cement plant.
<b>29</b>	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard	Not Applicable.

	shall be submitted to the SEIAA, Odisha and Ministry's Regional Office.	
30	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016.	We are having authorization under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016. All the generated waste being disposed through OSPCB authorized recycler/Vendor.
31	Kitchen waste shall be composted or converted to biogas for further use (to be decided on case to case basis depending on type and size of plant).	Kitchen waste are being composted on Bio composter machine vide capacity 100 Kg/Day and reused in horticulture purpose.




**VII. Green Belt Development:**

32	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	2.1 ha is covered under green belt. Remaining is under progress.  <table border="1"> <thead> <tr> <th colspan="4">Hindalco Industries Ltd- Hirakud FRP</th> </tr> <tr> <th>Year</th> <th>Inside</th> <th>Outside</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Upto FY14</td> <td>1100</td> <td>0</td> <td>1100</td> </tr> <tr> <td>FY15</td> <td>500</td> <td>0</td> <td>500</td> </tr> <tr> <td>FY16</td> <td>1000</td> <td>0</td> <td>1000</td> </tr> <tr> <td>FY17</td> <td>200</td> <td>1500</td> <td>1700</td> </tr> <tr> <td>FY18</td> <td>800</td> <td>2765</td> <td>3565</td> </tr> <tr> <td>FY19</td> <td>510</td> <td>2650</td> <td>3160</td> </tr> <tr> <td>FY'20</td> <td>310</td> <td>3164</td> <td>3474</td> </tr> <tr> <td>FY'21</td> <td>40</td> <td>3080</td> <td>3120</td> </tr> <tr> <td>FY'22</td> <td>30</td> <td>2000</td> <td>2030</td> </tr> <tr> <td>FY'23</td> <td>183</td> <td>3000</td> <td>3183</td> </tr> <tr> <td>FY'24</td> <td>808</td> <td>4000</td> <td>4808</td> </tr> <tr> <td>FY'25</td> <td>888</td> <td>3160</td> <td>3888</td> </tr> <tr> <td>FY'26</td> <td>88</td> <td>1150</td> <td>1238</td> </tr> <tr> <td><b>Total</b></td> <td><b>7029</b></td> <td><b>25969</b></td> <td><b>32998</b></td> </tr> </tbody> </table>	Hindalco Industries Ltd- Hirakud FRP				Year	Inside	Outside	Total	Upto FY14	1100	0	1100	FY15	500	0	500	FY16	1000	0	1000	FY17	200	1500	1700	FY18	800	2765	3565	FY19	510	2650	3160	FY'20	310	3164	3474	FY'21	40	3080	3120	FY'22	30	2000	2030	FY'23	183	3000	3183	FY'24	808	4000	4808	FY'25	888	3160	3888	FY'26	88	1150	1238	<b>Total</b>	<b>7029</b>	<b>25969</b>	<b>32998</b>
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33	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Presently (Scope 1&2 CO <sub>2</sub> emission) is <b>0.54 MT/T</b> avg (Oct'25-March'26) of product. Several Energy reduction initiatives are being undertaken.																																																																

**VIII. Public Hearing and Human Health Issues:**

34	All demands admitted in public hearing shall be accepted by the project proponent. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be satisfactorily implemented within the first three years as per the budgetary provisions mentioned in the Action Plan. The Status Report on implementation of Action Plan along with photographs shall be submitted to the concerned Regional Office of the Ministry along with District Administration.	Agreed and accepted. We have prepared the list of projects. The status report on implementation of action plan has been attached in annexure.
35	The project proponent shall comply in the true spirit all the issues raised and recorded in	We shall abide.

	proceedings of public hearing w.r.t. environment / pollution/ CER shall/ be complied by the Mining Authority as per OM F. No. 22-65/2017-IA.III, dated 30.09.2020 of MoEF&CC, Govt. of India	
36	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.	We have existing Emergency Preparedness plan, approved from Directorate of Factory and Boiler, Odisha certificate no SAM/OEP/2024/006118, same will revise after adding new facilities.
37	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	We are providing work related PPEs to our Employee and workers on regular basis.
38	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, mobiles 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.	We have provided the housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobiles STP, safe drinking water, medical health care, creche etc.
39	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Health checkup of the employee and workers being carried out on a regular annual basis and all records are available with us.
<b>IX. Corporate Environment Responsibility:</b>		
40	As per the MoEF &CC, Govt of India Office Memorandum dated 30.09.2022, the project proponent is required to prepare and implement Corporate Environment Responsibility (CER) Plan. The activities proposed under CER shall be restricted to the affected area around the project. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration. The activities proposed for CER shall be implemented and to be completed within three years and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF & CC annually along with audited statement and to the District Collector. It should be posted on the website of the project proponent.	We shall abide and will do the activities as proposed. We have attached the detailed project report of the development work done till now in <b>Annexure 4</b> .

<p>41</p>	<p>The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringement's /deviation/violation of the environmental/ forest/ wildlife norms / conditions. The company shall have defined system of reporting infringement's / deviation/violation of the environmental/ forest /wildlife norms/conditions and/ or shareholder's/ stake holders. The copy of the board resolution in the regard shall be submitted to the Regional Office, MoEF&amp;CC, Govt of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly report.</p>	<p>We are having environmental policy duly approve by the Board of Directors and we have procedures to have proper checks and balances to bring into focus any infringements. Copy of the policy attached here-</p> <div style="text-align: center;">   </div> <p style="text-align: center;"><b>ENVIRONMENT POLICY</b></p> <p>We, at Hindalco Industries Limited, operating across the process chain from mining to semi-fabricated products in non-ferrous metals, will strive to continually improve our environmental performance for sustainable operations and responsible growth globally, by integrating sound environmental systems &amp; practices and Pollution Prevention approach.</p> <p>To achieve this, we shall:</p> <ul style="list-style-type: none"> <li>• Continue to comply with all applicable legal and other requirements on environment.</li> <li>• Continually improve environmental performance by strengthening the Environmental Management System conforming to national /international standards, including setting up and reviewing targets and measuring, monitoring and reporting their progress.</li> <li>• Allocate sufficient resources such as organisational structure, technology and funds for implementation of the policy and for regular mentoring of performance.</li> <li>• Adopt pollution prevention approach for all our processes; enhance material efficiency and achieve high productivity.</li> <li>• Conserve key resources like electricity, coal, water, oil, and raw materials, by promoting efficient technologies and manufacturing process improvements, water conservation programmes, and efficient use of raw materials.</li> <li>• Adopt energy efficient and cleaner technologies based on techno-economic viability, appropriate to the region in which we operate, and in line with our growth and diversification plans.</li> <li>• Promote the principles of waste prevention, reduction, reuse, recycling and recovery to minimize waste generation and strengthen the practices for management of wastes.</li> <li>• Work in partnership with regulatory authorities, relevant suppliers, contractors, distributors and logistics partners and all other stakeholders, as applicable, to understand and initiate improvement actions.</li> <li>• Engage with internal and external stakeholders including key business partners such as joint venture partners, licensees and outsourcing partners and wider communities, to broaden our understanding of environmental priorities and initiate actions on key environmental challenges.</li> <li>• Adapt environmental performance over life cycle as an important input to the decision-making processes in the organization.</li> <li>• Raise environmental awareness at all levels of our operations, through training and effective communication, participation and consultation.</li> <li>• Communicate this Policy within the Organization. Develop and follow appropriate communication system to inform other stakeholders, as applicable, about our environmental commitment and performance.</li> <li>• Conduct environmental, health and safety due diligence before undergoing any mergers and acquisitions.</li> </ul> <p>This policy shall be made available to all employees, suppliers, customers, community and other stakeholders, as appropriate.</p> <div style="text-align: right;">   <b>SATISH PAI</b>  <b>MANAGING DIRECTOR</b> </div> <p>Date : 30 June 2020</p> <p style="text-align: center;"><b>HINDALCO INDUSTRIES LIMITED</b></p>
<p>42</p>	<p>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.</p>	<p>We have separate Environmental Cell set up both at the project and company head quarter level, with qualified personnel under the control of senior Executive, who will report directly to the head of the organization.</p>
<p>43</p>	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by the 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 Regional Office, MoEF &amp;CC, Govt of India, Bhubaneswar as well as SEIAA Odisha along with the six-monthly Compliance Report.</p>	<p>An Environmental Management Plan (EMP) Action Plan along with a clearly defined Responsibility Matrix has been prepared and duly approved by the competent authority. A separate budget head/account has been created for environmental protection measures, ensuring that earmarked funds are utilized exclusively for environmental activities and not diverted for any other purpose. Year-wise allocation and expenditure tracking is being maintained and reviewed periodically by management. The progress of implementation of the EMP action plan is being monitored and documented, and the same is submitted regularly to the Regional Office, MoEF&amp;CC</p>

		(Bhubaneswar) and SEIAA Odisha as part of the six-monthly compliance reports.
44	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	We are carrying yearly Environment audit following with Hazardous waste inventory and submitting report to OSPCB on an annual basis.
45	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plant shall be implemented.	Not Applicable
<b>XI. Miscellaneous: -</b>		
46	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter, mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change ( <a href="http://www.environmentclearance.nic.in">www.environmentclearance.nic.in</a> ). A copy of the advertisement may be forwarded to the concerned MoEF &CC Regional Office for compliance and record.	The advertisement is made in two local newspapers, one in Odia and second in English. The copy of the advertisement has been published within 07 days of the issue of clearance letter. The copy of advertisement published in Indian Express (English) and Samaja (Odia) on dated 07.07.2022 and intimation regarding the same has been submitted to Deputy Director General of Forests (C), Regional Office (EZ) Ministry of Environment, Forest and Climate change on dated 11.07.2022
47	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.	We have submitted EC copy to heads of local bodies, Panchayat, Municipal bodies, District Magistrate, District Industry Centre, Zilla Parishad and other relevant offices of the area. Acknowledgement received from concern offices, submitted to MS OSPCB vide our letter no. HFRP/ENV/2022-23/91 on dated 03.08.2022
48	It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance, the status of the implementation of the stipulated environmental safeguards to the State Environment Impact Assessment Authority (SEIAA), Odisha, SPCB & Regional Office, of the Ministry of Environment & forest, Odisha in hard and soft copies on 1st June and 1st December of each calendar year. The proponent shall also upload the compliance report including results of monitored data, as applicable in the website of the Ministry for monitoring of EC conditions.	We will submit report before 01 <sup>st</sup> Dec and 1 <sup>st</sup> of June every year.
49	The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF &CC, Govt of India, the respective Zonal Office of CPCB and the SPCB.	We will submit six monthly reports to Regional Office of MoEF &CC, Govt of India, the respective Zonal Office of CPCB and the SPCB and upload at company website. The criteria pollutant levels namely: PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions), to be monitored displayed near the main gate of the company in the public domain.

	The criteria pollutant levels namely: SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
50	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the MoEF &CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	We submit the Environmental Statement Report on regular basis and available on the website of the company. Recently, we have submitted ESR to OSPCB, MOEFCC and CPCB Regional office vide letter no. HFRP/ENV/2025-26/254 on dated 30.09.2025.
51	The project proponent shall inform the Regional Office, MoEF &CC, Govt of India, Bhubaneswar as well as SEIAA, Odisha the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	We have intimated the Regional Office, MoEF&CC (Bhubaneswar) and SEIAA Odisha regarding key project milestones such as financial closure, statutory approvals, commencement of land development, and start of production vide letter no. HFRP/ENV/2025-26/280 dated 12.03.2026.
52	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	We will adhere to this.
53	The project proponent shall abide by all the commitments and recommendations made in EIA/EMP report, commitments made during Public Hearing and also that during their presentation to the State Level Expert Appraisal Committee.	We will comply with and submit progress report on six monthly basis. We have attached the progress report of the commitments undertaken till now along with evidence in <b>Annexure 4</b> .
54	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.	We will take preapproval if required.
55	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.	We ensure full transparency and accuracy in data submission, and no concealment or submission of false/fabricated data is practiced. All environmental monitoring, reporting, and compliance data are based on actual observations and duly validated records and are submitted to statutory authorities in a timely and truthful manner.
56	The SEIAA, Odisha may revoke or suspend this EC, if implementation of any of the above conditions is not satisfactory. The SEIAA Odisha reserves the right to alter /modify the above conditions or stipulate any further condition in the interest of environment protection.	We acknowledge that SEIAA, Odisha reserves the right to revoke or suspend the Environmental Clearance (EC) in case of unsatisfactory implementation of stipulated conditions and may also modify or impose additional conditions in the interest of environmental protection. The company ensures strict compliance with all EC conditions and has established a system for continuous monitoring, review, and timely

		<p>corrective actions to avoid any non-compliance.</p> <p>Further, we are committed to promptly implementing any revised or additional conditions stipulated by SEIAA, Odisha, within a defined timeframe, ensuring ongoing adherence to regulatory requirements and environmental safeguards.</p>
<b>57</b>	<p>The SEIA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.</p>	<p>We acknowledge that SEIAA, Odisha has the right to impose additional conditions as deemed necessary and commits to comply with and implement any such conditions in a time-bound manner.</p> <p>A structured mechanism is in place to review, track, and ensure timely implementation of all additional stipulations, with responsibility assigned to concerned departments and progress monitored by the management for effective compliance.</p>
<b>58</b>	<p>The Regional Office, MoEF &amp; CC Govt. of India, Bhubaneswar 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.</p>	<p>We acknowledge that the Regional Office, MoEF&amp;CC, Bhubaneswar is authorized to monitor compliance of all stipulated conditions.</p> <p>The company extends full cooperation to the officials of the Regional Office by promptly providing all requisite data, information, and environmental monitoring reports during inspections and as and when requested.</p> <p>All records are maintained in an organized and readily accessible manner to facilitate effective verification and ensure transparent and smooth compliance monitoring.</p>
<b>59</b>	<p>The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1974, the Air (Prevention &amp; 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 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.</p>	<p>We ensure that all stipulated environmental conditions are complied with in accordance with applicable statutory provisions, including the Water (Prevention &amp; Control of Pollution) Act, 1974, Air (Prevention &amp; Control of Pollution) Act, 1981, 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.</p> <p>The company also adheres to directions/orders issued by competent authorities, including the Hon'ble Supreme Court, High Courts, and other judicial bodies, wherever applicable.</p> <p>A robust compliance management system is in place to monitor adherence to all legal and regulatory requirements, ensuring timely implementation and continuous compliance with evolving statutory provisions.</p>

<b>60</b>	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.	We acknowledge that any appeal against the Environmental Clearance (EC), if preferred, shall lie with the National Green Tribunal (NGT) within the prescribed period of 30 days under Section 16 of the NGT Act, 2010. At present, no appeal has been filed against the EC, and the company continues to operate in full compliance with the granted clearance and applicable statutory provisions.
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## Annexure- 1

1. Summary Report of Monthly CEMS.				
Month	Content	CEMS_1_Hot_Roughing_Mill-PM	CEMS_2_Hot_Finishing_Mill-PM	CEMS_3_Cold_Rolling_Mill-PM
Oct to March'26	Prescribed Standards	0 - 50	0 - 50	0 - 50
	Min Value	0.37	1.27	0.19
	Max Value	50	41.79	47.54
	Average	5.32	4.52	16.67
	Data Availability %	99.11	99.02	99.02
2. Summary report of Manual Stack Emission				
Month		HRM Stack	HFM Stack	CRM Stack
Oct to March'26	Prescribed Standards	0 - 50	0 - 50	0 - 50
	Min	9.8	8.8	6.8
	Max	15.8	15.3	13.9
	Average	11.1	10.2	8.7
3. Summary report of Ambient Air Quality (Oct'25 to March'26)				
	Parameter	Min	Max	Average
Near Material Gate	PM <sub>10</sub>	57.66	91.33	79.21
	PM <sub>2.5</sub>	26.22	47.5	39.37
	SO <sub>2</sub>	6.19	22.6	10.05
	NO <sub>x</sub>	19.85	38.4	27.54
Driver Room Beside ADM Building	PM <sub>10</sub>	55.11	82.55	69.68
	PM <sub>2.5</sub>	24.55	39.78	33.37
	SO <sub>2</sub>	6.08	18.4	8.73
	NO <sub>x</sub>	15.84	31.2	24.98
Canteen near Nitrogen plant	PM <sub>10</sub>	53.78	89.22	72.35
	PM <sub>2.5</sub>	24.33	43.22	34.13
	SO <sub>2</sub>	6.22	8.4	9.51
	NO <sub>x</sub>	16.78	35	25.82
Summary report of Fugitive Emission Monitoring.				
Month	Standard (µg/m-3)	Min (µg/m-3)	Max (µg/m-3)	Average (µg/m-3)
Dec'25	5000	146	348	204.8
March'26	5000	228	496	365.6



TC-14927

## ODISHA WASTE MANAGEMENT PROJECT (A DIVISION OF RE SUSTAINABILITY LIMITED)

KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
ODISHA-755018.

### TEST REPORT



**Test Report No.:** OWMP/E-LAB/26-27/04/TR/002

**Name and address of the client:**


**M/s Hindalco Industries Limited  
Hirakud FRP Plant, Dist.: Sambalpur,  
Odisha, India, 768016.**

<b>ULR No</b>	TC149272600000359F		
<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water LAT- 21.518 LONG-83.906
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/002
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav
<b>Sampling Location</b>	Nimpalli Village	<b>Sample condition</b>	Received in Plastic container

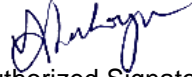
S. No.	Parameter	Unit	Method	Result
1	pH Value at 25.0 °C	-	APHA 4500-H+ B. Electrometric Method	6.70
2	Conductivity at 25.0°C	µS/cm	APHA 2510 C. Laboratory Method	1,180
3	Total Dissolved Solids	mg/l	APHA 2540 C. TDS Dried at 180 °C	765
4	Total Suspended Solids	mg/l	APHA 2540 D. TSS Dried at 105 °C	14
5	Sulphate, as SO <sub>4</sub> <sup>2-</sup>	mg/l	APHA 4500-SO <sub>4</sub> <sup>2-</sup> E Turbidimetric Method	55.7
6	Nitrate, as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> <sup>-</sup> B.UV Spectrophotometric Screening Method	34.5
7	Sodium, as Na	mg/l	APHA 3500-Na B. Flame Emission Photometric Method	64.1
8	Potassium, as K	mg/l	APHA 3500-K B. Flame Photometric Method	0.2

#### TERMS & CONDITIONS

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6. Client may visit (if desired) our laboratory to witness the related tests.

  
Reviewed by  
(Ms. Priyanka Sahoo)  
(Senior Executive)



  
Authorized Signatory  
(Mr. A L Narasimha Charyulu)  
(Quality Manager)

**ODISHA WASTE MANAGEMENT PROJECT**  
**(A DIVISION OF RE SUSTAINABILITY LIMITED)**  
 KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
 ODISHA-755018.  
**TEST REPORT**



Test Report No.: OWMP/E-LAB/26-27/04/TR/002

Name and address of the client:

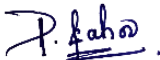
**M/s Hindalco Industries Limited**  
**Hirakud FRP Plant, Dist.: Sambalpur,**  
**Odisha, India, 768016.**

<b>ULR No</b>	TC1492726000000359F		
<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water LAT- 21.518 LONG-23.906
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/002
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav
<b>Sampling Location</b>	Nimpalli Village	<b>Sample condition</b>	Received in Plastic container


S. No.	Parameter	Unit	Method	Result
9	Fluoride, as F <sup>-</sup>	mg/l	APHA 4500-F D. SPADNS Method	0.42
10	Alkalinity, as CaCO <sub>3</sub>	mg/l	APHA 2320 B. Titration Method	297
11	Hardness, as CaCO <sub>3</sub>	mg/l	APHA 2340 C. EDTA Titrimetric Method	55
12	Chloride, as Cl <sup>-</sup>	mg/l	APHA 4500-Cl B. Argentometric Method	126.4
13	Iron, as Fe	mg/l	APHA 3500-Fe B. Phenanthroline Method	0.24
14	Calcium, as Ca	mg/l	APHA 3500-Ca B.EDTA Titrimetric Method	21.7
15	Magnesium, as Mg	mg/l	APHA 3500-Mg B Calculation Method	7.9

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 (Ms. Priyanka Sahoo)  
 (Senior Executive)



  
 Authorized Signatory  
 (Mr. A L Narasimha Charyulu)  
 (Quality Manager)

**ODISHA WASTE MANAGEMENT PROJECT**  
**(A DIVISION OF RE SUSTAINABILITY LIMITED)**  
 KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
 ODISHA-755018.  
**TEST REPORT**



Test Report No.: OWMP/E-LAB/26-27/04/TR/002

Name and address of the client:


*M/s Grasim Industries Limited  
 Jayshree, Dist: Ganjam,  
 Odisha, India, 761025.*

<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026	
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water	LAT- 21.518 LONG-23.906
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/002	
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav	
<b>Sampling Location</b>	Nimpalli Village	<b>Sample condition</b>	Received in Plastic container	

S. No.	Parameter	Unit	Method	Result
1	Colour	CU	(APHA, 2120.C Spectrophotometric single wavelength method)	< 1
2	Taste	--	IS 3025 Part-8	Agreeable
3	Phosphate as PO <sub>4</sub>	mg/l	APHA, 4500-P.C.Vanadomolybdophosphoric acid colorimetric method	< 0.1
4	Turbidity	NTU	APHA 2130 B. Nephelometric Method	1

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TC-14927

# ODISHA WASTE MANAGEMENT PROJECT (A DIVISION OF RE SUSTAINABILITY LIMITED)

KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
ODISHA-755018.

## TEST REPORT



Test Report No.: OWMP/E-LAB/26-27/04/TR/003

Name and address of the client:


**M/s Hindalco Industries Limited**  
**Hirakud FRP Plant, Dist.: Sambalpur,**  
**Odisha, India, 768016.**

ULR No	TC149272600000360F		
Date of sampling	17.04.2026	Date of Reporting	29.04.2026
Date of Receipt	18.04.2026	Sample description	Ground Water LAT- 21.5344 LONG-83.9015
Analysis Commenced on	18.04.2026	Sample Reg. No.	OWMP/E-LAB/26-27/04/003
Analysis completed on	28.04.2026	Sample collected by	Mr. Satyam Ku. Yadav
Sampling Location	Hirakud Durga Mandir	Sample condition	Received in Plastic container

S. No.	Parameter	Unit	Method	Result
1	pH Value at 25.0 °C	-	APHA 4500-H+ B. Electrometric Method	6.76
2	Conductivity at 25.0 °C	µS/cm	APHA 2510 C. Laboratory Method	632.1
3	Total Dissolved Solids	mg/l	APHA 2540 C. TDS Dried at 180 °C	411
4	Total Suspended Solids	mg/l	APHA 2540 D. TSS Dried at 105 °C	16
5	Sulphate, as SO <sub>4</sub> <sup>2-</sup>	mg/l	APHA 4500-SO <sub>4</sub> <sup>2-</sup> E Turbidimetric Method	50.1
6	Nitrate, as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> B.UV Spectrophotometric Screening Method	0.53
7	Sodium, as Na	mg/l	APHA 3500-Na B. Flame Emission Photometric Method	34.5
8	Potassium, as K	mg/l	APHA 3500-K B. Flame Photometric Method	0.4

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**ODISHA WASTE MANAGEMENT PROJECT**  
**(A DIVISION OF RE SUSTAINABILITY LIMITED)**  
 KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
 ODISHA-755018.  
**TEST REPORT**



Test Report No.: OWMP/E-LAB/26-27/04/TR/003

Name and address of the client:


**M/s Hindalco Industries Limited**  
**Hirakud FRP Plant, Dist: Sambalpur,**  
**Odisha, India, 768016.**

<b>ULR No</b>	TC149272600000360F		
<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water LAT- 21.5344 LONG-83.9015
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/003
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav
<b>Sampling Location</b>	Hirakud Durga Mandir	<b>Sample condition</b>	Received in Plastic container


S. No.	Parameter	Unit	Method	Result
9	Fluoride, as F <sup>-</sup>	mg/l	APHA 4500-F D. SPADNS Method	0.36
10	Alkalinity, as CaCO <sub>3</sub>	mg/l	APHA 2320 B. Titration Method	220
11	Hardness, as CaCO <sub>3</sub>	mg/l	APHA 2340 C. EDTA Titrimetric Method	33
12	Chloride, as Cl <sup>-</sup>	mg/l	APHA 4500-Cl B. Argentometric Method	37.1
13	Iron, as Fe	mg/l	APHA 3500-Fe B. Phenanthroline Method	0.24
14	Calcium, as Ca	mg/l	APHA 3500-Ca B. EDTA Titrimetric Method	12.3
15	Magnesium as Mg	mg/l	APHA 3500-Mg B Calculation Method	4.9

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 Reviewed by  
 (Ms. Priyanka Sahoo)  
 (Senior Executive)



  
 Authorized Signatory  
 (Mr. A L Narasimha Charyulu)  
 (Quality Manager)

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**TEST REPORT**

Test Report No.: OWMP/E-LAB/26-27/04/TR/003

Name and address of the client:

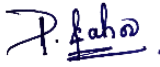
**M/s Grasim Industries Limited**  
**Jayshree, Dist: Ganjam,**  
**Odisha, India, 761025.**

<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026	
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water	LAT- 21.5344 LONG-83.9015
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/003	
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav	
<b>Sampling Location</b>	Hirakud Durga Mandir	<b>Sample condition</b>	Received in Plastic container	


S. No.	Parameter	Unit	Method	Result
1	Colour	CU	(APHA, 2120.C Spectrophotometric single wavelength method)	< 1
2	Taste	--	IS 3025 Part-8	Agreeable
3	Phosphate as PO <sub>4</sub>	mg/l	APHA, 4500-P.C.Vanadomolybdophosphoric acid colorimetric method	< 0.1
4	Turbidity	NTU	APHA 2130 B. Nephelometric Method	2

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TC-14927

## ODISHA WASTE MANAGEMENT PROJECT (A DIVISION OF RE SUSTAINABILITY LIMITED)

KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
ODISHA-755018.

### TEST REPORT



Test Report No.: OWMP/E-LAB/26-27/04/TR/004

Name and address of the client:


**M/s Hindalco Industries Limited**  
**Hirakud FRP Plant, Dist.: Sambalpur,**  
**Odisha, India, 768016.**

<b>ULR No</b>	TC149272600000361F		
<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water LAT- 21.5344 LONG-83.9000
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/004
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav
<b>Sampling Location</b>	Hirakud Hanuman Mandir	<b>Sample condition</b>	Received in Plastic container


S. No.	Parameter	Unit	Method	Result
1	pH Value at 25.0 °C	-	APHA 4500-H+ B. Electrometric Method	6.56
2	Conductivity at 25.0°C	µS/cm	APHA 2510 C. Laboratory Method	412.1
3	Total Dissolved Solids	mg/l	APHA 2540 C. TDS Dried at 180 °C	269
4	Total Suspended Solids	mg/l	APHA 2540 D. TSS Dried at 105 °C	11
5	Sulphate, as SO <sub>4</sub> <sup>2-</sup>	mg/l	APHA 4500-SO <sub>4</sub> <sup>2-</sup> E Turbidimetric Method	19.5
6	Nitrate, as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> B.UV Spectrophotometric Screening Method	< 0.1
7	Sodium, as Na	mg/l	APHA 3500-Na B. Flame Emission Photometric Method	22.0
8	Potassium, as K	mg/l	APHA 3500-K B.Flame Photometric Method	0.1

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(Quality Manager)

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 ODISHA-755018.  
**TEST REPORT**



Test Report No.: OWMP/E-LAB/26-27/04/TR/004

Name and address of the client:


**M/s Hindalco Industries Limited**  
**Hirakud FRP Plant, Dist: Sambalpur,**  
**Odisha, India, 768016.**

<b>ULR No.</b>	TC149272600000361F		
<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water LAT- 21.5344 LONG-83.9000
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/004
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav
<b>Sampling Location</b>	Hirakud Hanuman Mandir	<b>Sample condition</b>	Received in Plastic container


S. No.	Parameter	Unit	Method	Result
9	Fluoride, as F <sup>-</sup>	mg/l	APHA 4500-F D. SPADNS Method	0.13
10	Alkalinity, as CaCO <sub>3</sub>	mg/l	APHA 2320 B. Titration Method	132
11	Hardness, as CaCO <sub>3</sub>	mg/l	APHA 2340 C. EDTA Titrimetric Method	6.6
12	Chloride, as Cl <sup>-</sup>	mg/l	APHA 4500-Cl B. Argentometric Method	38.9
13	Iron, as Fe	mg/l	APHA 3500-Fe B. Phenanthroline Method	0.18
14	Calcium, as Ca	mg/l	APHA 3500-Ca B. EDTA Titrimetric Method	5.3
15	Magnesium, as Mg	mg/l	APHA 3500-Mg B Calculation Method	0.3

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**TEST REPORT**

**Test Report No.: OWMP/E-LAB/26-27/04/TR/004**

**Name and address of the client:**

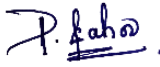
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<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026	
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water	LAT- 21.5344 LONG-83.9000
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/004	
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav	
<b>Sampling Location</b>	Hirakud Hanuman Mandir	<b>Sample condition</b>	Received in Plastic container	


S. No.	Parameter	Unit	Method	Result
1	Colour	CU	APHA, 2120.C Spectrophotometric single wavelength method	< 1
2	Taste	--	IS 3025 Part-8	Agreeable
3	Phosphate as PO <sub>4</sub>	mg/l	APHA, 4500-P.C.Vanadomolybdophosphoric acid colorimetric method	< 0.1
4	Turbidity	NTU	APHA 2130 B. Nephelometric Method	1

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TC-14927

## ODISHA WASTE MANAGEMENT PROJECT (A DIVISION OF RE SUSTAINABILITY LIMITED)

KANCHICHUAN, SUKINDA, PO MANGALPUR, JAJPUR,  
ODISHA-755018.

### TEST REPORT



**Test Report No.:** OWMP/E-LAB/26-27/04/TR/005

**Name and address of the client:**


**M/s Hindalco Industries Limited  
Hirakud FRP Plant, Dist: Sambalpur,  
Odisha, India, 768016.**

<b>ULR No</b>	TC1492726000000362F		
<b>Date of sampling</b>	17.04.2026	<b>Date of Reporting</b>	29.04.2026
<b>Date of Receipt</b>	18.04.2026	<b>Sample description</b>	Ground Water <span style="float: right;">LAT- 21.520 LONG-83.902</span>
<b>Analysis Commenced on</b>	18.04.2026	<b>Sample Reg. No.</b>	OWMP/E-LAB/26-27/04/005
<b>Analysis completed on</b>	28.04.2026	<b>Sample collected by</b>	Mr. Satyam Ku. Yadav
<b>Sampling Location</b>	Hirakud FRP Contaminated site	<b>Sample condition</b>	Received in Plastic container


S. No.	Parameter	Unit	Method	Result
1	pH Value at 25.0 °C	-	APHA 4500-H+ B. Electrometric Method	6.90
2	Conductivity at 25.0°C	µS/cm	APHA 2510 C. Laboratory Method	955.5
3	Total Dissolved Solids	mg/l	APHA 2540 C. TDS Dried at 180 °C	620
4	Total Suspended Solids	mg/l	APHA 2540 D. TSS Dried at 105 °C	354
5	Sulphate, as SO <sub>4</sub> <sup>2-</sup>	mg/l	APHA 4500-SO <sub>4</sub> <sup>2-</sup> E Turbidimetric Method	63.9
6	Nitrate, as NO <sub>3</sub>	mg/l	APHA 4500-NO <sub>3</sub> <sup>-</sup> B.UV Spectrophotometric Screening Method	50.12
7	Sodium, as Na	mg/l	APHA 3500-Na B. Flame Emission Photometric Method	72.7
8	Potassium, as K	mg/l	APHA 3500-K B. Flame Photometric Method	0.8

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<b>Sampling Location</b>	Hirakud FRP Contaminated site	<b>Sample condition</b>	Received in Plastic container


S. No.	Parameter	Unit	Method	Result
9	Fluoride, as F <sup>-</sup>	mg/l	APHA 4500-F D. SPADNS Method	0.65
10	Alkalinity, as CaCO <sub>3</sub>	mg/l	APHA 2320 B. Titration Method	308
11	Hardness, as CaCO <sub>3</sub>	mg/l	APHA 2340 C. EDTA Titrimetric Method	226.6
12	Chloride, as Cl <sup>-</sup>	mg/l	APHA 4500-Cl B. Argentometric Method	42.8
13	Iron, as Fe	mg/l	APHA 3500-Fe B. Phenanthroline Method	1.14
14	Calcium, as Ca	mg/l	APHA 3500-Ca B. EDTA Titrimetric Method	72.3
15	Magnesium, as Mg	mg/l	APHA 3500-Mg B Calculation Method	37.1

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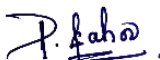
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<b>Sampling Location</b>	Hirakud FRP Contaminated site	<b>Sample condition</b>	Received in Plastic container	


S. No.	Parameter	Unit	Method	Result
1	Colour	CU	(APHA, 2120.C Spectrophotometric single wavelength method)	2
2	Taste	--	IS 3025 Part-8	NA
3	Phosphate, as PO <sub>4</sub>	mg/l	APHA, 4500-P.C.Vanadomolybdophosphoric acid colorimetric method	1.01
4	Turbidity	NTU	APHA 2130 B. Nephelometric Method	289

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1. Summary Report of Monthly EQMS.					
Month	Content	EQMS_1_ETP_Outlet-BOD	EQMS_1_ETP_Outlet-COD	EQMS_1_ETP_Outlet-TSS	EQMS_1_ETP_Outlet-PH
Oct'25	Prescribed Standards	30 mg/l	250 mg/l	100 mg/l	6.5 to 9.0
	Min Value	0	0	0	0
	Max Value	5.2	38.63	2.63	7.78
	Average	4.11	27.36	2.09	7.19
	Data Availability %	99.36	99.36	99.36	99.36
Nov'25	Min Value	3.62	23.69	1.94	2.97
	Max Value	4.83	32.75	14.94	8.28
	Average	4.1	27.42	8.74	7.64
	Data Availability %	99.58	99.58	99.58	99.58
Dec'25	Min Value	0	0	0	0
	Max Value	5.22	39.06	18.61	7.71
	Average	4.14	27.54	14.1	7.51
	Data Availability %	99.97	99.97	99.97	99.97
Jan'26	Min Value	0	0	0	0
	Max Value	5.37	39.18	17.4	7.97
	Average	4.14	27.59	15.54	7.73
	Data Availability %	94.39	94.39	94.39	94.39
Feb'26	Min Value	0	0	0	0
	Max Value	5.4	39.31	17.96	7.98
	Average	4.28	28.69	15.72	7.67
	Data Availability %	99.11	99.11	99.11	99.11
Mar'26	Min Value	3.66	23.7	12.99	7.48
	Max Value	5.4	39.64	17.65	7.91
	Average	4.3	28.9	16.03	7.69
	Data Availability %	99.93	99.93	99.93	99.93
2. Summary Report of Manual Monitoring					
Month	Content	EQMS_1_ETP_Outlet-BOD	EQMS_1_ETP_Outlet-COD	EQMS_1_ETP_Outlet-TSS	EQMS_1_ETP_Outlet-PH
Oct'25	Prescribed Standards	30 mg/l	250 mg/l	100 mg/l	6.5 to 9.0
	Average	2.9	12	14	6.79
Nov'25	Average	2.1	10.4	7	7.34
Dec'25	Average	<2	<10	5	6.92
Jan'26	Average	7.1	27	6	8.35
Feb'26	Average	BDL	8	BDL	7.35
Mar'26	Average	BDL	BDL	BDL	6.55

## Annexure-4

<b>CER Activities With Expenses of Hindalco Hirakud FRP</b>	
<b>(October'25-March'26)</b>	
<b>Project Activities</b>	<b>Hindalco Programme Spending</b>
<b>EDUCATION &amp; SPORTS</b>	<b>(Rs in Lacs)</b>
Project Padhega Bharat, Support to School Education programs in organizing SURAVI - Children festival and District level science exhibitions	14.34
Project Lakshya - Support to youth by providing sports kit and promoting sports through organizing sports events and tournaments.	7.71
<b>Total</b>	<b>22.05</b>
<b>HEALTH CARE</b>	
Project Mamta - Support and organized health nutrition programs for better reproductive and child health. Special Cancer Detection Camp (Mamovan) was organized at Hirakud to promote early cancer detection and preventive healthcare among the local community.	10
Project Arogya - Hirakud FRP inaugurated a state-of-the-art 500 mA Digital X-Ray unit at the Community Health Centre, Hirakud, significantly enhancing diagnostic services for the local population.	45
<b>Total</b>	<b>55</b>
<b>Sustainable Development</b>	
Project Shakti: sustainable livelihood program for SHG women of Hirakud area. Sales Outlet of Project SHAKTI was inaugurated marking a key milestone in promoting women-led non-farm enterprises. A new Badi–Papad production unit and a Catering Service Unit with mobile application was inaugurated. Sensitization programme on MSME and other awareness program organized.	122.72
<b>Total</b>	<b>122.72</b>
<b>Infrastructure Development</b>	
Surveillance: Installation of CCTV cameras to monitor traffic and ensure safety. Traffic Management-Road barricades and installation of porta cabins across hirakud	138.9
Project Nirman : Renovation work of Kalapataru Ashram, Dr Ambedkar Community Hall, Installed borewells at Community Halls, Construction and renovation work of Hirakud main road.	175

<b>Total</b>	<b>313.9</b>
<b>Social Development</b>	
Social Empowerment and welfare programs. Support to Promotion of Traditional cultural program for protection of heritage / Art / Culture. Support to rural cultural programme , Festivals & Melas like Hiralud Mahotsav, Sambalpur Mahotsav, Kartikeswar mahotsav and Nuakhai Bhetghat. National/International day celebrations with community.	113.87
<b>Total</b>	<b>113.87</b>