



Ref no- FRL/RNC/25-26/030

Date: 21/05/2025

To,  
**Integrated Regional Office (IRO) – Ranchi**  
**Ministry of Environmental, Forest & Climate Change**  
**2nd floor, Headquarter, Jharkhand State Housing Board**  
**Harmu Chowk, Harmu Housing Colony,**  
**Argora, Jharkhand 834002**

**Subject:** - *Submission of Half – Yearly Environment Clearance Compliance Report of “Rajhara North (Central & Eastern) Coal block opencast project” located at ,Village- Pandwa and Rajhara, Block – Pandwa and Nawabazar , Thana- Pandwa, District – Palamu, Jharkhand : Total Land Area: - 116.80 Ha.*

**Ref:** *Environment Clearance no. EC22B000JH195568, Letter No. EC/SEIAA/2022-23/2573/2022/278 dated 04/11/2022 and corrigendum letter no. EC/SEIAA/2022-23/2573/2022/3119 dated 29/12/2022.*

Dear Sir / Madam,

With reference to the above-mentioned subject, we are submitting the Half – Yearly Environment Clearance Compliance Report for period of October, 2024 to March, 2025 of “Rajhara North (Central & Eastern) Coal block opencast project” located at ,Village- Pandwa and Rajhara, Block – Pandwa and Nawabazar , Thana- Pandwa, District – Palamu, Jharkhand.

Thanking You

Yours Faithfully

  
**Rajeev Kumar Singh**  
**Director**  
**Fairmine Carbons Private Limited**



**Encl:** Half – Yearly Environment Clearance Compliance Report for period of October, 2024 to March, 2025 with Annexures

Cc:

1. **The Member Secretary, Jharkhand State pollution Control Board (JSPCB)**  
**Dhurwa, Ranchi 834004.**
2. **The Member Secretary, Jharkhand State Environment Impact Assessment Authority.**

**HALF YEARLY ENVIRONMENT CLEARANCE (EC) COMPLIANCE FOR A PERIOD OF  
1<sup>ST</sup> OCTOBER, 2024 TO 31<sup>ST</sup> MARCH, 2025**

***FOR***

| <b>PROJECT</b>   |  | <b>RAJHARA NORTH (CENTRAL &amp; EASTERN)<br/>COAL BLOCK OPENCAST PROJECT</b> |
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| <b>PROJECT LOCATION</b>                                    | VILLAGE : PANDWA & RAJHARA<br>TEHSIL : PANDWA & NAWA BAZAR<br>DISTRICT : PALAMU<br>STATE : JHARKHAND   |  |
| <b>PROJECT AREA</b>  | 116.80 Ha.   |  |
| <b>CAPACITY</b>  | 0.75 MTPA  |  |
| <b>PROPONENT</b>   | M/s FAIRMINE CARBONS PVT. LTD.   |  |
| <b>PROPONENT ADDRESS</b>                                   | REGD.OFFICE: 4TH FLOOR, CROSSWINDZ BUILDING, 41, COURT ROAD, RANCHI, JHARKHAND, PINCODE : 834001   |  |
| <b>Environment Clearance</b>                               | Memo No.: EC/SEIAA/2022-23/2573/2022/278<br>Dated: 27/10/2022 and corrigendum letter no. EC/SEIAA/2022-23/2573/2022/3119 dated 29/12/2022  |  |
| <b>Monitoring of AAQ, Ground Water &amp; Surface Water</b> |  |  |
| <b>LABORATORY DETAILS</b>                                  | <b>M/S NEW VISION EARTH CONSULTANCY (OPC) PVT.LTD.</b>   |  |
| <b>Current Status</b>                                      | <i>Project activities commenced on 19th January 2025, and coal production began on 13th March 2025. The project is currently in the coal production phase, with operational mining activities ongoing.</i> |  |
| <i>Annexure – I (A)</i>                                    | <i>Copy of Consent to Establishment (CTE)</i>  |  |
| <i>Annexure – I (B)</i>                                    | <i>Copy of Consent to Operate (CTO)</i>  |  |
| <i>Annexure – II</i>                                       | <i>NOC from DFO (WL)</i>   |  |
| <i>Annexure – III</i>                                      | <i>NOC from CGWA</i>   |  |
| <i>Annexure – IV</i>                                       | <i>Monitoring Report for Quality of Ambient Air Quality, Surface Water &amp; Ground Water</i>  |  |
| <i>Annexure – V</i>  | <i>Environmental Policy</i>  |  |
| <i>Annexure – VI</i>                                       | <i>Advertisement in Newspaper &amp; Website</i>  |  |
| <i>Annexure – VII</i>                                      | <i>Receiving of Letter for Informing Local Authorities regarding Environment Clearance</i>   |  |

## **COMPLIANCE OF EC CONDITIONS**

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| <b>I. Specific Conditions:</b>  |  |
| i. This Environmental clearance is valid subject to the following condition below-  |  |
| That this project has-  |  |
| a. Obtained all legal rights to operate at concerned place  | Noted, <b>almost all legal rights have been obtained to operate mining operation. ( Attached in Annexure wise)</b><br>CTE from JSPCB has been obtained. Copy enclosed at Annexure I(A).<br>CTO has been obtained from JSPCB vide its Ref No. JSPCB/HO/RNC/CTO-20466937/2024/1725 Dated : 2024-11-13 before operating mines activities. Copy enclosed at Annexure I(B). |
| b. Complied with all existing concerned laws of the land and  | NOTED  |
| c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.  | NOTED  |
| ii. Vegetal cover should be developed on the top soil dump within mining lease area to keep the top soil fertile for further use.   | NOTED, the topsoil being removed and stored in pre-defined location. Shown in figure.  |
| iii. CER budget should be implemented as per the guideline of Ministry of Environment, Forest & Climate Change, Govt. of India.   | Agreed. Guidelines of MoEF & CC norms relating to implementation of schemes under CER would be strictly followed.  |
| iv. No mining/activity shall be undertaken in the forest land or deemed forest without obtaining requisite prior forestry clearance.  | No forest land is involved in this project.  |
| v. The Environmental Clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT , MoEF & CC and any other court of Law, if any , as may be applicable to this project.  | Noted for appropriate action when need arises.   |
| vi. Environmental clearance is subject to obtaining prior clearance from forestry and Wildlife angle including clearance from standing committee of NBWL, as may be applicable to this project (in case any fauna occurs / is found in the Project area or if the area involves forest land or Wildlife habitat i.e. core zone of | No forest land involved in the project, also the project is not located within 10 km. of protected area within Wildlife habitat i.e. core zone of elephant/tiger reserve etc. NO objection and distance  |

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| elephant/tiger reserve etc. and or located within 10 km. of protected area).  | certification obtained from DFO (WL). Enclosed Annexure II  |
| vii The project proponent may apply simultaneously for forest and NBWL clearance, in order to complete the formalities without undue delay, which till process on their respective merits, no rights will vest in or accrue to them unless all clearance are obtained.  | Forest clearance & NBWL clearance are not required <b>as the project area does not involve forest land and wild life habitats.</b>  |
| <b>II. Statutory compliance:</b>  |   |
| 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.   | No forest land diversion is involved in the project.  |
| ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.   | Clearance from NBWL is not required as project area is located about 25 Km away from wild life sanctuary.   |
| iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six- monthly compliance report. (in case of the presence of schedule-1 species in the study area). | Not applicable, schedule-1 species of THE WILD LIFE (PROTECTION) ACT, 1972 is not reported in the study area and the project area is located about 25 km away from tiger reserve and wild life sanctuary. |
| iv. In the writ petition (Civil) no. 202/1995, T.N. Godaverman Thirumulpad vs union of India and ors. the Hon'ble Supreme Court passed an order dated 03.06.2022 " National Park or Wildlife Sanctuary must have an ESZ of minimum 01 km in which the activities prescribed and prescribed in the guidelines of 09th February, 2011 shall be strictly adhered to".  | Agreed, project under consideration located about 25 km from National Park and wildlife sanctuary park. NOC from DFO (wildlife) has been obtained. Annexure- II   |
| v. 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.   | CTE & CTO from JSPCB has been obtained copy enclosed Annexure- I(A) & I(B).   |
| vi. 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.   | NOC from CGWA has been obtained. Annexure- III  |
| vii. Solid waste/ hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules. 2016/ Hazardous & Other Waste Management Rules, 2016 as amended from time to time.   | Being complied  |

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| viii. It shall be mandatory for the project management to submit six (06) monthly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard copies and soft copies to the regulatory authority concerned Regional Office of MOEF & CC at Ranchi and Jharkhand State Pollution Control Board (J.S.P.C.B.). Ranchi/SEIAA/CPCB.   | Noted & we will comply with prevailing statutory provisions in this respect.   |
| ix. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act. 1986.  | Noted, for strict compliance to this condition.  |
| x. The SEIAA, Jharkhand or any other competent Authority may alter modify the above conditions or stipulate any further condition in the interest of Environment Protection.   | Noted, we would follow all directive issued by JSEIAA or any other competent authority.  |
| <b>III. Air quality monitoring and preservation:</b>   |  |
| I. Continuous ambient air quality monitoring stations as prescribed in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.<br>Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months. | Procurement of CAAQMS has been made. Steps have been taken to establish & commission Continuous AAQ monitoring station in Core & Buffer Zone.<br>However, we have monitored AAQ data in core zone as well as buffer zone.<br>Monitoring location finalized on consideration of meteorological data, topographical features and environmentally and ecologically sensitive area.<br>Data enclosed in Annexure – IV. |
| II. The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.  | Noted,<br>Data on AAQ and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be carried out and reported regularly to MoEF & CC Regional Office & CPCB.   |
| III. Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water / mist sprinkling / rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of   | Noted, necessary steps will be taken once coal transportation by road is undertaken to ensure that:  |

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| PM10/PM2.5) such as haul road, loading/ unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.   | <ul style="list-style-type: none"> <li>● All haulage Trucks carrying coal on public road will be covered.</li> <li>● Regular water sprinkling on haul road &amp; critical areas prone to air pollution including loading unloading transfer points.</li> </ul> |
| iv. The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated. | Coal will be transported to railway siding through the identified road in selection of transportation route. Care has been taken to avoid populated area. Route identified for transportation is as per approved mine plan.                                    |
| v. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.   | Care has been taken only those haulage vehicles would be engaged who have PUC certificate from authorised pollution testing centres.   |
| vi. Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.   | <ul style="list-style-type: none"> <li>● Crusher &amp; Feeder shall be provided with dust suppression system</li> <li>● Side cladding would be provided.</li> <li>● Drills are used with wet drilling system.</li> </ul>                                       |
| ii. Coal handling plant shall be operated with effective control measures w.r.t. Various environmental parameters. Environmentally friendly sustainable technology should be implemented for mitigating such parameters.   | Appropriate effective pollution control measures would be taken in Coal Handling Plant for mitigation dust generation.   |
| <b>IV. Water quality monitoring and preservation:</b>  |  |
| i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.   | There is no provision for site workshop. Arrangements would be made for desilting pond. Overflow from pond will be monitored for parameters prescribed standards vide GSR 742 (E) d. 25.09.2000  |
| ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-1A.II (M) dated 27.05.2009 issued by Ministry of Environment,   | Noted, this provision is being complied.   |



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| Forest and Climate Change shall also be referred in this regard for its compliance.  |   |
| iii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four 00times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.  | Necessary steps have been taken to install piezometers to monitor ground water level & their quality. Ground water level will be monitored four times a year & quality will be measured once in a year. Ground Water Quality Lab Test Report is attached in Annexure – IV.  |
| iv. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.   | Quality of surface water of Sadabah Nala have been monitored. Test results are enclosed at Annexure – IVs. Surface water quality will be monitored once in six month & these reports would be submitted to ROI MoEF & CC.   |
| v. Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.   | Ground water shall not be used for mining operation. Rain water harvesting / ground water structure will be constructed before monsoon.   |
| vi. Catch and or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between | NOTED & following measures has been taken; <ul style="list-style-type: none"> <li>● Garland drain would be provided around quarry.</li> <li>● Catch drains / Foot drains would be provided around external dump / stock yard to collect run-off.</li> <li>● Catch drains would be provided with silt traps &amp; sedimentation pond.</li> <li>● Retaining wall would be provided at toe of dump.</li> <li>● Strip plantation using native species would be done along toe of dump.</li> </ul> |

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| toe of the dump and adjacent field/habitation/water bodies.   |  |
| vii. Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).   | Agreed<br>Necessary arrangements would be made for meeting water requirement of villagers. Ground Water recharge structures would be constructed before monsoon. Mine Water after due treatment, shall be made available to local villagers for their use.   |
| viii. Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP / STP needs to be provided.   | This is no provision of site workshop. Effluent generated in Coal Handling Plant will be collected & treated in Desiltation pond. Treated water will be used for dust suppression & horticulture.  |
| ix. The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.  | Water pumped out from quarry would be treated in desiltation pond. Treated water shall be used for dust suppression horticulture etc.  |
| x. The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan EIA/EMP report and with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other authority as prescribed by the law. | Project involves diversion of a small stretch of perennial stream. Scheme for diversion is in the final stage of approval from WRD of State Govt. It would be diverted as per approved scheme. An embankment would be provided as per approved design provision from DGMS would be taken before it is constructed. A comprehensive drainage plan would be developed & implemented to manage storm water within the lease area. |
| xi. The project proponent shall take all precautionary measures to ensure riverain/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A riverain /riparian ecosystem conservation and management plan   | Agreed.<br>Measures for protecting and preserving riverain ecosystem would be implemented.   |



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| should be prepared and implemented in consultation with the irrigation / water resource department in the state government.  |   |
| <b>v. Noise and Vibration monitoring and prevention:</b>   |   |
| i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs / muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored. | Personal protective equipments like ear plugs / muffs would be provided to workers engaged in blasting & drilling operations, Operators of HEMMs. Simultaneously awareness programme would be organised for these workers to make them aware of need for these equipment. |
| ii. Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.   | Controlled blasting being used for minimising ground vibration, fly rocks, air blasts in accordance with guidelines laid down by DGMS   |
| iii. The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.   | Noise level has been monitored at strategic locations within lease area. A copy of report being   |
| <b>VI. Mining Plan:</b>  |   |
| i. Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.   | Mining operation is being carried out under strict adherence to provisions of the Mines Act 1952 & sub-ordinate legislations.   |
| ii. Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).  | Mining is being carried out as per approved Mining Plan & Closure Plan abiding by laws related to Coal mines & circulars of DGMS.   |
| iii. No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980   | No Forest land is involved in the project area.   |
| iv. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.   | Efforts are being made to reduce energy and fuel consumption by using energy efficient equipments and use of  |

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|                                |   | solar energy wherever practicable.   |
| <b>VII. Land reclamation :</b> |   |  |
| i.                             | Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MOEF&CC) from time to time shall be submitted to MOEFCC/Regional Office (RO).   | Digital Survey of Mine Lease Area shall be done once in three years showing the land use pattern. The survey report in scale of 1:50000 shall be submitted to MoEF& CC / R.O.  |
| ii.                            | The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural /forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27 <sup>th</sup> August, 2009 and subsequent amendments. | Final mine void depth as per approved Mining Plan & Mine closure plan is 40 m. This will be followed. Mine void would be reclaimed as per approved mining plan. A part of void would be backfilled planned to be used for agriculture. |
| iii.                           | The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining" / "post mining" land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.   | Entire excavated area, backfilling, external OB dumping & afforestation plan shall be in conformity with approved Mining Plan & Mining closure plan and EIA/EMP Report.  |
| iv.                            | Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3 <sup>rd</sup> November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.   | There is no source for generation of fly ash or gypsum generated from Flue gas desulfurization, in study area of the project.  |
| v.                             | Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of   | <ul style="list-style-type: none"> <li>Top soil excavated during mining operation are being</li> </ul>   |

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| <p>utilization. The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.</p> | <p>stored in earmarked area. They shall be used for plantation &amp; land reclamation.</p> <ul style="list-style-type: none"> <li>• Native grass would be planted on active OB Dump for controlling erosion.</li> <li>• Dormant dumps would be reclaimed using native species of flora.</li> <li>• Excavated area shall be backfilled &amp; reclaimed for agricultural use. This is as per approved Mining plan compliance status would be submitted to MoEF &amp; CC / RO.</li> </ul> |
| <p>vi. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.</p>  | <p>No Grazing land was acquired for this project.</p>  |
| <p><b>VIII. Green Belt</b></p>   |  |
| <p>i. The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.</p> <p>ii. Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach! coal transportation roads.</p>                             | <p>i) No endangered /endemic flora /fauna was found in study area during survey.</p> <p>ii) 7.5m wide Green belt consisting of 3 tier plantation ( gress, shrub, tree) using mix of native species, shall be developed as per approved mining plan &amp; closure plan.</p>   |

| <b>IX. Public hearing and Human health issues:</b>  |   |
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| i. Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis.  | Arrangements has been made for adequate illumination within the lease area as per DGMS standards & a report on the same shall be submitted to MoEF & CC / RO.   |
| ii. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any. as amended time to time. | Proponent has made arrangement for initial & periodical medical examination of personnel engaged in the project & maintain a record in compliance to provisions in Mines Rules 1955 & DGMS circulars.<br>In addition to above, necessary arrangements would also made for periodical medical check-up of at least 20% of the personnel of workforce engaged in mining activities for occupational diseases & having impairment. |
| iii. Personnel (including out sourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.   | Personnel working in core zone are already using PPEs. For this, Basic /Initial training as well as awareness program is being regularly conducted to the work persons on safety and health aspects.  |
| iv. Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.   | Appropriate action has been taken to implement the action plan on issues raised in Public Hearing.<br>Land oustees are being compensated as per norms laid down in R&R policy   |
| v. The project proponent shall follow the mitigation measures provided in this Ministry'S OM No.Z-11013/5712014-IA.11 (M) dated 29th October, 2014, titled 'Impact of mining activities on  | Agreed<br>Required mitigation measures would be implemented during operation of project.  |

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| <p>habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.</p>   |  |
| <p><b>X. Corporate Environment Responsibility:</b></p>   |  |
| <p>i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.</p>  | <p>The proponent would comply to provisions in Ministry's OM vide FN 22-65 /2017 -1A.II dt.-01.05.2018 regarding corporate Env. Responsibility.</p>  |
| <p>ii. 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 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&amp;CC as a part of six-monthly report.</p> | <p>The company has a well laid down Env. Policy duly approved by Board of Directors.<br/>Copy of the same is enclosed at Annexure-V</p>  |
| <p>iii. 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>Separate Env. cell both at project &amp; corporate level is being set-up. Env. cell at project level will report to project officer of the mine.</p>  |
| <p>iv. 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.</p>  | <p>Action plan for implementation of EMP along with responsibility matrix is under preparation which shall be approved by competent Authority. Action plan would include provision of year wise funds earmarked for Env. protection.<br/>Year-wise progress of implementation of action plan would be submitted to MoEF &amp; CC / RO.</p> |
| <p>v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</p>  | <p>Arrangements would be made for annual environmental audit. Also third party</p>   |

|  |  |
|--|--|
|  | environmental audit would be conducted every three year.   |
| vi. All the recommendations made in the Charter on Corporate responsibility for Environment Protection(CREP) for the plants shall be implemented.  | Arrangements would be made to implement provisions in charter on corporate Responsibility for Env. Protection.   |
| vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.   | In compliance to provisions in Factories Act, regular occupational health surveillance of workers shall be done & records would be maintained.   |
| <b>XI. Miscellaneous</b>   |  |
| I. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently. | Complied<br>Annexure – VI  |
| 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.   | Complied<br>Annexure – VII   |
| 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.  | Complied   |
| iv. The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.   | Project proponent has already started monitoring of ambient air quality covering PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> & NO <sub>x</sub> . This will be displayed at a convenient location for disclosure to the public and put on the website. |
| v. 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  | This is being complied.  |



|   |   |
|---|---|
| of Environment, Forest and Climate Change at environment clearance portal.  |   |
| vi. 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. | This is being complied for each financial year as per given statutory provisions.   |
| vii. The project authorities shall inform to the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concern authority commencing the land development work and start of production operation by the project .        | This will be complied & date of financial closure & final approval of the project by concerned authority as Would be reported to ROI MoEF & CC. |
| viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.  | Proponent is complying to condition prescribed in CTE   |
| ix. 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.   | Proponent would comply to conditions given in Env. clearance & commitment made in Public Hearing & during presentation at SEAC.                 |
| x. 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).   | There would no expansion or modification plan without due approval in MoEF & CC.  |
| xi. 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.  | Noted for necessary action  |
| xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.  | Noted   |
| xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.   | The proponent will implement all additional conditions prescribed by MoEF & CC.   |
| xiv. 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  | Project proponent would extend all cooperation to the officers of RO in monitoring of compliance.   |

|       |  |  |
|-------|--|--|
|       | furnishing the requisite data / information / monitoring reports.  |  |
| xv.   | 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 Trans boundary 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. | Noted  |
| xvi.  | 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  | Noted  |
| xvii. | The Environmental Clearance accorded shall be valid for the period of lease of the mine, the PP does not increase production rate and alter lease area during the validity of Environmental Clearance.   | Noted.<br>Proponent would not alter lease area or increase production during period of environment clearance is valid. |



**Plantation**





**Top-Soil Dump**



**Over Burden Dump**



**Mining Activities**





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

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Jharkhand State Pollution Control Board (JSPCB) B-2062

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



## TEST REPORT (AMBIENT AIR)

|                           |  |                       |                           |
|---------------------------|--|-----------------------|---------------------------|
| Client Reference No:      | NVEC/RNC/W0/25/03/20/001   | ULR NO:               | TC1407525000000260F       |
| Name & Address of Client: | FAIRMINE CARBONS PVT LTD<br>(RAJHARA MINE)<br>NEAR PANDWA, POLICE STATION<br>DALTONGANG, JHARKHAND | Report No.:           | NVEC/RNC/24-25/262        |
|                           |  | Report Release Date : | 29/03/2025                |
|                           |  | Sampling Date         | 22/03/2025 to 24/03/2025  |
| Weather Condition         | Clear  | Sample Receipt Date : | 24/03/2025                |
| Average Temperature (°C)  | 32 °C  | Sample Description:   | Ambient Air Quality       |
| Barometric Pressure(mmHg) | 756 (mmHg)   | Sample Condition      | Sealed                    |
| Plan Status               | Operational  | Period of Analysis    | 24/03/2025 to 28/ 03/2025 |

| Sampling Location    | Unit 1                   | Unit 2               | Unit 3               |
|----------------------|--------------------------|----------------------|----------------------|
|                      | PARWA OFFICE             | RAILWAY SIDING COAL  | R AND R SITE         |
| Latitude & Longitude | 24° 9' 48.047"N          | 24° 9' 35.077"N      | 24° 9' 17.054"N      |
|                      | 84° 3' 43.392"E          | 84° 2' 57.685"E      | 84° 2' 03.997"E      |
| Sample ID            | NVEC/AQ/25/03/24/001     | NVEC/AQ/25/03/24/002 | NVEC/AQ/25/03/24/003 |
| Sampling Location    | Unit 4                   | Unit 5               |                      |
|                      | NEAR PARWA MIDDLE SCHOOL | SITE OFFICE          |                      |
| Latitude & Longitude | 24° 10' 09.243"N         | 24° 9' 48.861"N      |                      |
|                      | 84° 3' 47.895"E          | 84° 3' 34.391"E      |                      |
| Sample ID            | NVEC/AQ/25/03/24/004     | NVEC/AQ/25/03/24/005 |                      |

### General Information

Client Representative (Name & Designation) : Narendra Kr Singh & Sr. Supervisor  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring (Average) : 09: 30 AM  
Actual duration of Monitoring, (minutes) : 1445 (Minutes)  
Surrounding activity : Village Area  
Scope of Monitoring : PM10, PM2.5, SO<sub>2</sub>, NO<sub>2</sub>,  
Control measure if Any : No  
Sampling Protocol/Procedure : IS 5182 or VEC/SP/AIR/14



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



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Jharkhand State Pollution Control Board (JSPCB) B-2062

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



## TEST RESULTS

| Discipline : Chemical |                                    |                                    | Group : Atmospheric Pollution |        |        |        |        |                   |                       |
|-----------------------|------------------------------------|------------------------------------|-------------------------------|--------|--------|--------|--------|-------------------|-----------------------|
| S. No.                | Parameter                          | Protocol                           | Sampling Location             |        |        |        |        | Unit              | NAAQS                 |
|                       |                                    |                                    | Unit 1                        | Unit 2 | Unit 3 | Unit 4 | Unit 5 |                   |                       |
| 1                     | Particulate Matter (PM10)          | IS 5182 : Part 23 : 2006 (RA:2022) | 77.6                          | 80.2   | 83.7   | 77.4   | 74.2   | µg/m <sup>3</sup> | 100 µg/m <sup>3</sup> |
| 2                     | Particulate Matter (PM2.5)         | IS 5182 : Part 24 : 2019           | 45.9                          | 56.1   | 61.4   | 48.3   | 55.5   | µg/m <sup>3</sup> | 60 µg/m <sup>3</sup>  |
| 3                     | Sulphur Dioxide (SO <sub>2</sub> ) | IS 5182:Part 2:2018 (RA:2023 )     | 15.9                          | 15.1   | 16.9   | 19.1   | 15.7   | µg/m <sup>3</sup> | 80 µg/m <sup>3</sup>  |
| 4                     | Oxides of Nitrogen (NOx)           | IS 5182:Part 6:2006 (RA:2022 )     | 33.8                          | 35.6   | 36.9   | 31.9   | 33.9   | µg/m <sup>3</sup> | 80 µg/m <sup>3</sup>  |

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

Reviewed by:

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh  
Designation: CEO

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



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## TEST REPORT (AMBIENT AIR)

|                           |  |                       |                           |
|---------------------------|--|-----------------------|---------------------------|
| Client Reference No:      | NVEC/RNC/W0/25/03/20/001   |                       |                           |
| Name & Address of Client: | FAIRMINE CARBONS PVT LTD<br>(RAJHARA MINE)<br>NEAR PANDWA, POLICE STATION<br>DALTONGANG, JHARKHAND | Report No.:           | NVEC/RNC/AQ/2025/035      |
|                           |  | Report Release Date : | 29/03/2025                |
|                           |  | Sampling Date         | 22/03/2025 to 24/03/2025  |
| Weather Condition         | Clear  | Sample Receipt Date : | 24/03/2025                |
| Average Temperature (°C)  | 32 °C  | Sample Description:   | Ambient Air Quality       |
| Barometric Pressure(mmHg) | 756 (mmHg)   | Sample Condition      | Sealed                    |
| Plan Status               | Operational  | Period of Analysis    | 24/03/2025 to 28/ 03/2025 |

| Sampling Location    | Unit 1                      | Unit 2               | Unit 3               |
|----------------------|-----------------------------|----------------------|----------------------|
|                      | PARWA OFFICE                | RAILWAY SIDING COAL  | R AND R SITE         |
| Latitude & Longitude | 24° 9' 48.047"N             | 24° 9' 35.077"N      | 24° 9' 17.054"N      |
|                      | 84° 3' 43.392"E             | 84° 2' 57.685"E      | 84° 2' 03.997"E      |
| Sample ID            | NVEC/AQ/25/03/24/001        | NVEC/AQ/25/03/24/002 | NVEC/AQ/25/03/24/003 |
| Sampling Location    | Unit 4                      | Unit 5               |                      |
|                      | NEAR PARWA MIDDLE<br>SCHOOL | SITE OFFICE          |                      |
| Latitude & Longitude | 24° 10' 09.243"N            | 24° 9' 48.861"N      |                      |
|                      | 84° 3' 47.895"E             | 84° 3' 34.391"E      |                      |
| Sample ID            | NVEC/AQ/25/03/24/004        | NVEC/AQ/25/03/24/005 |                      |

### General Information

Client Representative (Name & Designation) : Narendra Kr Singh & Sr. Supervisor  
Sample collected by (Name & Designation) : NVEC Team  
Time of Monitoring (Average) : 09: 30 AM  
Actual duration of Monitoring, (minutes) : 485 (Minutes)  
Surrounding activity : Village Area  
Scope of Monitoring : Hg, As, Ni, Cd, Cr  
Control measure if Any : No  
Sampling Protocol/Procedure : IS 5182 or VEC/SP/AIR/14



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



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

## TEST RESULTS

| Discipline : Chemical |                |                                | Group : Atmospheric Pollution |        |        |        |        |       |           |
|-----------------------|----------------|--------------------------------|-------------------------------|--------|--------|--------|--------|-------|-----------|
| S. No.                | Parameter      | Protocol                       | Sampling Location             |        |        |        |        | Unit  | NAAQS     |
|                       |                |                                | Unit 1                        | Unit 2 | Unit 3 | Unit 4 | Unit 5 |       |           |
| 1                     | * Mercury (Hg) | CVAAS/ICP Method               | BDL                           | BDL    | BDL    | BDL    | BDL    | ng/m3 | -         |
| 2                     | *Arsenic (As)  | AAS/ICP Method                 | < 2.0                         | < 2.0  | < 2.0  | < 2.0  | < 2.0  | ng/m3 | 06 Annual |
| 3                     | *Nickel (Ni)   | IS 5182: Part 26:1974(RA:2014) | < 2.0                         | < 2.0  | < 2.0  | < 2.0  | < 2.0  | ng/m3 | 20 Annual |
| 4                     | *Cadmium (Cd)  | AAS/ICP Method                 | BDL                           | BDL    | BDL    | BDL    | BDL    | ng/m3 | -         |
| 5                     | *Chromium (Cr) | AAS/ICP Method                 | BDL                           | BDL    | BDL    | BDL    | BDL    | ng/m3 | -         |

Note- (\*) all star parameter are out of sources.

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4. This analyzed parameters are found within the limit.

Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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



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Jharkhand State Pollution Control Board (JSPCB) B-2062

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TC-14075

## TEST REPORT (AMBIENT NOISE)

|                           |  |                       |                           |
|---------------------------|--|-----------------------|---------------------------|
| Client Reference No:      | NVEC/RNC/W0/25/03/20/001   | ULR NO:               | TC1407525000000261F       |
| Name & Address of Client: | FAIRMINE CARBONS PVT LTD<br>(RAJHARA MINE)<br>NEAR PANDWA, POLICE STATION<br>DALTONGANG, JHARKHAND | Report No.:           | NVEC/RNC/24-25/263        |
|                           |  | Report Release Date : | 29/03/2025                |
|                           |  | Sampling Date         | 22/03/2025 to 24/03/2025  |
| Weather Condition         | Clear  | Sample Receipt Date : | 24/03/2025                |
| Average Temperature (°C)  | 32 °C  | Sample Description:   | Ambient Noise             |
| Barometric Pressure(mmHg) | 756 (mmHg)   | Period of Analysis    | 24/03/2025 to 28/ 03/2025 |
| Plan Status               | Operational  |                       |                           |

| Sampling Location    | Unit 1                   | Unit 2                | Unit 3                |
|----------------------|--------------------------|-----------------------|-----------------------|
|                      | PARWA OFFICE             | RAILWAY SIDING COAL   | R AND R SITE          |
| Latitude & Longitude | 24° 9' 48.047"N          | 24° 9' 35.077"N       | 24° 9' 17.054"N       |
|                      | 84° 3' 43.392"E          | 84° 2' 57.685"E       | 84° 2' 03.997"E       |
| Sample ID            | NVEC/ANQ/25/03/24/006    | NVEC/ANQ/25/03/24/007 | NVEC/ANQ/25/03/24/008 |
| Sampling Location    | Unit 4                   | Unit 5                |                       |
|                      | NEAR PARWA MIDDLE SCHOOL | SITE OFFICE           |                       |
| Latitude & Longitude | 24° 10' 09.243"N         | 24° 9' 48.861"N       |                       |
|                      | 84° 3' 47.895"E          | 84° 3' 34.391"E       |                       |
| Sample ID            | NVEC/ANQ/25/03/24/009    | NVEC/ANQ/25/03/24/010 |                       |

### General Information

|  |                                      |
|--|--------------------------------------|
| Client Representative (Name & Designation) | : Narendra Kr Singh & Sr. Supervisor |
| Sample collected by (Name & Designation)   | : NVEC Team                          |
| Time of Monitoring                         | : 09:40 AM                           |
| Duration of Monitoring, (minutes)          | : 1445 (Minutes)                     |
| Surrounding activity                       | : Village Area                       |
| Scope of Monitoring                        | : Ambient Noise Level                |
| Control measure if Any                     | : NA                                 |
| Sampling Protocol/Procedure                | : IS 9989                            |



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TC-14075

## TEST RESULT

| Discipline : Chemical           |                             |                 |                           |                             |                 | Group : Atmospheric Pollution |                             |                 |                           |                             |                 |                           |                             |                 |       |   |
|---------------------------------|-----------------------------|-----------------|---------------------------|-----------------------------|-----------------|-------------------------------|-----------------------------|-----------------|---------------------------|-----------------------------|-----------------|---------------------------|-----------------------------|-----------------|-------|---|
| Parameter : Ambient Noise Level |                             |                 |                           |                             |                 | Protocol : IS 9989            |                             |                 |                           |                             |                 |                           |                             |                 |       |   |
| Sampling Location               |                             |                 |                           |                             |                 |                               |                             |                 |                           |                             |                 |                           |                             |                 | Unit  | CPCB Limit                                    |
| Unit 1                          |                             |                 | Unit 2                    |                             |                 | Unit 3                        |                             |                 | Unit 4                    |                             |                 | Unit 5                    |                             |                 |       |   |
| L <sub>MAX</sub><br>(DAY)       | L <sub>MIN</sub><br>(NIGHT) | L <sub>eq</sub> | L <sub>MAX</sub><br>(DAY) | L <sub>MIN</sub><br>(NIGHT) | L <sub>eq</sub> | L <sub>MAX</sub><br>(DAY)     | L <sub>MIN</sub><br>(NIGHT) | L <sub>eq</sub> | L <sub>MAX</sub><br>(DAY) | L <sub>MIN</sub><br>(NIGHT) | L <sub>eq</sub> | L <sub>MAX</sub><br>(DAY) | L <sub>MIN</sub><br>(NIGHT) | L <sub>eq</sub> | dB(A) | Day 75<br>dB(A)<br><br>&<br>Night 70<br>dB(A) |
| 58                              | 43                          | 67              | 61                        | 49                          | 65              | 72                            | 51                          | 73              | 66                        | 45                          | 61              | 59                        | 41                          | 62              |       |   |

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4. This analyzed parameters are found within the limit.

Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar  
Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh  
Designation: CEO

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





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Jharkhand State Pollution Control Board (JSPCB) B-2062

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



TC-14075

## TEST REPORT (WATER)

|   |  |                             |                                      |
|---|--|-----------------------------|--------------------------------------|
| Client Reference No:                            | NVEC/RNC/W0/25/03/20/001   | ULR NO :                    | TC1407525000000262F                  |
| Name & Address of Client :                      | FAIRMINE CARBONS PVT LTD<br>(RAJHARA MINE)<br>NEAR PANDWA, POLICE STATION<br>DALTONGANG, JHARKHAND | Report No.:                 | NVEC/RNC/24-25/264                   |
|   |  | Report Release Date :       | 29/03/2025                           |
|   |  | Sampling Date :             | 23/03/2025                           |
|   |  | Sample Receipt Date :       | 24/03/2025                           |
|   |  | Sample ID:                  | NVEC/SW/25/03/24/011                 |
| Plant Status :                                  | OPERATIONAL  | Period of Analysis          | 24/03/2025 to 28/ 03/2025            |
| Sampling Location /Source:                      | NEAR RAILWAY BRIDGE ,<br>SADABAH RIVER (DOWN STREAM)   | Type of Sampling:           | COMPOSIT                             |
| Client Representative<br>(Name & Designation) : | NARENDRA KR SINGH & SR. SUPERVISOR   | Sample Description:         | SURFACE WATER                        |
|   |  | Sample Condition:           | SEALED & PRESERVED                   |
| Sample collected by<br>(Name & Designation) :   | NVEC TEAM  | Sample Quantity :           | 6.5 Liter                            |
|   |  | Preservation :              | H <sub>2</sub> SO <sub>4</sub> , HCL |
| Latitude :                                      | 24°09'23.47"N  | Sampling Protocol/Procedure | VEC/WATER/SP/13                      |
| Longitude :                                     | 84°02'31.67"E  |                             |                                      |

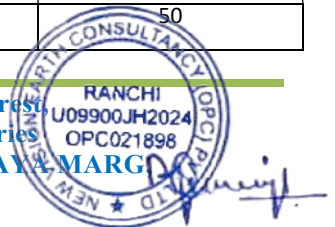
## TEST RESULT

| S. No. | Parameter                                | Protocol   | Result | Unit  | Tolerance Limit<br>(As IS 2296) #<br>Class " C " |
|--------|--|--|--------|-------|--|
| 1      | pH Value                                 | APHA (24th edition) 4500-H+ :2023                            | 6.987  | -     | 6.5-8.5  |
| 2      | Electrical Conductivity                  | IS: 3025(Part 14) : 2013(RA2023)                             | 801    | μS/cm | --   |
| 3      | Total Dissolved Solids                   | APHA (24th edition) 2540 C :2023                             | 510.6  | mg/l  | 1500   |
| 4      | Dissolved Oxygen (DO)                    | APHA 24th.2023:4500 O-C :2023                                | <4.0   | mg/l  | 4.0  |
| 5      | Chloride as Cl <sup>-</sup>              | APHA (24th edition) 4500-Cl- B :2023                         | 73.4   | mg/l  | 600  |
| 6      | Biological Oxygen Demand (BOD)           | IS 3025 (Part-44):1993; RA2014                               | <3.0   | mg/l  | 3.0  |
| 7      | Chemical Oxygen Demand (COD)             | IS 3025 (Part-58):2006; RA2017                               | 43.7   | mg/l  | --   |
| 8      | Iron(as Fe)                              | APHA (24th edition) 3500 Fe B :2023                          | 0.63   | mg/l  | 50   |
| 9      | Sulphate (as SO <sub>4</sub> )           | APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023 | 42.9   | mg/l  | 400  |
| 10     | Colour                                   | APHA 24th Edition 2120 B:2023                                | <5.0   | Cu    | 300  |
| 11     | Total Alkalinity (as CaCO <sub>3</sub> ) | APHA(24th edition) 2320 B: 2023                              | 50.3   | mg/l  | --   |
| 12     | Total Hardness (as CaCO <sub>3</sub> )   | APHA (24th edition) 2340 C:2023                              | 222.5  |       | --   |
| 13     | Calcium (as Ca)                          | APHA (24th edition) 3500 Ca-B:2023                           | 78.5   | mg/l  | --   |
| 14     | Magnesium as Mg                          | APHA(24th edition) 3500-Mg-B:2023                            | 29.4   | mg/l  | --   |
| 15     | Fluoride (as F <sup>-</sup> )            | APHA(24th edition) 4500F-D:2023                              | <0.05  | mg/l  | 1.5  |
| 16     | Nitrate (as NO <sub>3</sub> )            | APHA (24th edition) 4500 NO <sub>3</sub> B :2023             | 6.4    | mg/l  | 50   |

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Contact: - +91-9955095641, +91-9546333332,

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|    |                             |                                  |      |      |     |
|----|-----------------------------|----------------------------------|------|------|-----|
| 17 | Total Suspended Solid (TSS) | APHA (24th edition) 2540 D :2023 | 47.6 | mg/l | --  |
| 18 | Turbidity                   | APHA (24th edition) 2130 B       | <5.0 | NTU  | --  |
| 19 | Sodium (as Na)              | APHA (24th edition) 3500 Na B    | 9.2  | mg/l | --  |
| 20 | Potassium (as K)            | APHA (24th edition) 3500 K B     | 2.5  | mg/l | --  |
| 21 | Oil & Grease                | APHA (24th edition) 5520 B       | <0.1 | Mg/l | 0.1 |

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4. This analyzed parameters are found within the limit.

Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



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## TEST REPORT

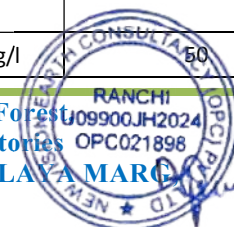
### ( WATER )

|   |  |                             |                                      |
|---|--|-----------------------------|--------------------------------------|
| Client Reference No:                            | NVEC/RNC/W0/25/03/20/001   | ULR NO :                    | TC1407525000000263F                  |
| Name & Address of Client :                      | FAIRMINE CARBONS PVT LTD<br>(RAJHARA MINE)<br>NEAR PANDWA, POLICE STATION<br>DALTONGANG, JHARKHAND | Report No.:                 | NVEC/RNC/24-25/265                   |
|   |  | Report Release Date :       | 29/03/2025                           |
|   |  | Sampling Date :             | 23/03/2025                           |
|   |  | Sample Receipt Date :       | 24/03/2025                           |
|   |  | Sample ID:                  | NVEC/SW/25/03/24/012                 |
| Plant Status :                                  | OPERATIONAL  | Period of Analysis          | 24/03/2025 to 28/ 03/2025            |
| Sampling Location /Source:                      | NEAR VILLAGE PATH ,<br>SADABAH RIVER (UP STREAM)   | Type of Sampling:           | COMPOSIT                             |
| Client Representative<br>(Name & Designation) : | NARENDRA KR SINGH & SR.<br>SUPERVISOR  | Sample Description:         | SURFACE WATER                        |
|   |  | Sample Condition:           | SEALED & PRESERVED                   |
| Sample collected by<br>(Name & Designation) :   | NVEC TEAM  | Sample Quantity :           | 6.5 LITER                            |
|   |  | Preservation :              | H <sub>2</sub> SO <sub>4</sub> , HCL |
| Latitude :                                      | 24°09'30.61"N  | Sampling Protocol/Procedure | VEC/WATER/SP/13                      |
| Longitude :                                     | 84°02'34.79"E  |                             |                                      |

## TEST RESULT

| S. No. | Parameter                                | Protocol   | Result | Unit  | Tolerance Limit<br>(As IS 2296) #<br>Class " C " |
|--------|--|--|--------|-------|--|
| 1      | pH Value                                 | APHA (24th edition) 4500-H+ :2023                            | 7.532  | -     | 6.5-8.5  |
| 2      | Electrical Conductivity                  | IS: 3025(Part 14) : 2013(RA2023)                             | 867    | μS/cm | --   |
| 3      | Total Dissolved Solids                   | APHA (24th edition) 2540 C :2023                             | 563.5  | mg/l  | 1500   |
| 4      | Dissolved Oxygen (DO)                    | APHA 24th.2023:4500 O-C :2023                                | <4.0   | mg/l  | 4.0  |
| 5      | Chloride as Cl <sup>-</sup>              | APHA (24th edition) 4500-Cl- B :2023                         | 66.3   | mg/l  | 600  |
| 6      | Biological Oxygen Demand (BOD)           | IS 3025 (Part-44):1993; RA2014                               | <3.0   | mg/l  | 3.0  |
| 7      | Chemical Oxygen Demand (COD)             | IS 3025 (Part-58):2006; RA2017                               | 42.6   | mg/l  | --   |
| 8      | Iron(as Fe)                              | APHA (24th edition) 3500 Fe B :2023                          | 0.47   | mg/l  | 50   |
| 9      | Sulphate (as SO <sub>4</sub> )           | APHA(24th edition) 4500 SO <sub>4</sub> <sup>2-</sup> E:2023 | 36.5   | mg/l  | 400  |
| 10     | Colour                                   | APHA 24th Edition 2120 B:2023                                | <5.0   | Cu    | 300  |
| 11     | Total Alkalinity (as CaCO <sub>3</sub> ) | APHA(24th edition) 2320 B: 2023                              | 44.6   | mg/l  | --   |
| 12     | Total Hardness (as CaCO <sub>3</sub> )   | APHA (24th edition) 2340 C:2023                              | 267    |       | --   |
| 13     | Calcium (as Ca)                          | APHA (24th edition) 3500 Ca-B:2023                           | 83.4   | mg/l  | --   |
| 14     | Magnesium as Mg                          | APHA(24th edition) 3500-Mg-B:2023                            | 39.4   | mg/l  | --   |
| 15     | Fluoride (as F <sup>-</sup> )            | APHA(24th edition) 4500F-D:2023                              | <0.05  | mg/l  | 1.5  |
| 16     | Nitrate (as NO <sub>3</sub> )            | APHA (24th edition) 4500 NO <sub>3</sub> B :2023             | 5.5    | mg/l  |  |

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Email - visionearthjkh@gmail.com





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|    |                             |                                  |      |      |     |
|----|-----------------------------|----------------------------------|------|------|-----|
| 17 | Total Suspended Solid (TSS) | APHA (24th edition) 2540 D :2023 | 51.4 | mg/l | --  |
| 18 | Turbidity                   | APHA (24th edition) 2130 B       | <5.0 | NTU  | --  |
| 19 | Sodium (as Na)              | APHA (24th edition) 3500 Na B    | 5.9  | mg/l | --  |
| 20 | Potassium (as K)            | APHA (24th edition) 3500 K B     | 1.7  | mg/l | --  |
| 21 | Oil & Grease                | APHA (24th edition) 5520 B       | <0.1 | Mg/l | 0.1 |

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Reviewed by:

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

Name: Ajay Kumar Singh

Designation: CEO

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



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## TEST REPORT

### (WATER)

|   |  |                             |                                      |
|---|--|-----------------------------|--------------------------------------|
| Client Reference No:                            | NVEC/RNC/W0/25/03/20/001   | ULR NO :                    | TC1407525000000264F                  |
| Name & Address of Client :                      | FAIRMINE CARBONS PVT LTD<br>(RAJHARA MINE)<br>NEAR PANDWA, POLICE STATION<br>DALTONGANG, JHARKHAND | Report No.:                 | NVEC/RNC/24-25/266                   |
|   |  | Report Release Date :       | 29/03/2025                           |
|   |  | Sampling Date :             | 23/03/2025                           |
|   |  | Sample Receipt Date :       | 24/03/2025                           |
|   |  | Sample ID:                  | NVEC/SW/25/03/24/013                 |
| Plant Status :                                  | OPERATIONAL  | Period of Analysis          | 24/03/2025 to 28/ 03/2025            |
| Sampling Location /Source:                      | NEAR OFFICE,<br>GROUND WATER (BORWELL 1)   | Type of Sampling:           | GRAB                                 |
| Client Representative<br>(Name & Designation) : | NARENDRA KR SINGH &<br>SR. SUPERVISOR  | Sample Description:         | GROUND WATER                         |
|   |  | Sample Condition:           | SEALED & PRESERVED                   |
| Sample collected by<br>(Name & Designation) :   | NVEC TEAM  | Preservation :              | H <sub>2</sub> SO <sub>4</sub> , HCL |
|   |  | Sample Quantity :           | 5 Liter                              |
| Latitude :                                      | 24°09'49.64"N  | Sampling Protocol/Procedure | VEC/WATER/SP/13                      |
| Longitude :                                     | 84°03'35.17"E  |                             |                                      |

## TEST RESULT

| S. No. | Parameter                                | Protocol   | Result    | Unit   | As per 10500:2012 |                   |
|--------|--|--|-----------|--------|-------------------|-------------------|
|        |  |  |           |        | Acceptable Limit  | Permissible Limit |
| 1      | pH Value                                 | APHA (24th edition) 4500-H+ :2023                | 6.953     | -      | 6.5-8.5           | 6.5-8.5           |
| 2      | Conductivity                             | IS: 3025(Part 14) : 2013(RA2023)                 | 1204      | µS/c m | --                | --                |
| 3      | Colour                                   | APHA 24th Edition 2120 B:2023                    | <5.0      | Cu     | 5                 | 15                |
| 4      | Odor                                     | APHA(24th edition) 2150B:2023                    | Agreeable | -      | Agreeable         | Agreeable         |
| 5      | Taste                                    | APHA (24th edition) 2160C : 2023                 | Agreeable | -      | Agreeable         | Agreeable         |
| 6      | Turbidity                                | APHA(24th edition) 2130B:2023                    | BDL       | NTU    | 1.0               | 5.0               |
| 7      | Free Residual Chlorine                   | APHA(24th edition) 4500 Cl-B :2023               | BDL       | mg/l   | 0.2               | 1.0               |
| 8      | Total Dissolved Solids (TDS)             | APHA (24th edition) 2540 C :2023                 | 782.6     | mg/l   | 500               | 2000              |
| 9      | Total Alkalinity (as CaCO <sub>3</sub> ) | APHA(24th edition) 2320 B: 2023                  | 10.6      | mg/l   | 200               | 600               |
| 10     | Total Hardness (as CaCO <sub>3</sub> )   | APHA (24th edition) 2340 C:2023                  | 353.6     | mg/l   | 200               | 600               |
| 11     | Calcium (as Ca)                          | APHA (24th edition) 3500 Ca-B:2023               | 72.5      | mg/l   | 75                | 200               |
| 12     | Magnesium (as Mg)                        | APHA(24th edition) 3500-Mg-B:2023                | 37.6      | mg/l   | 30                | 100               |
| 13     | Chloride(as Cl )                         | APHA (24th edition) 4500-Cl- B :2023             | 163.2     | mg/l   | 250               | 1000              |
| 14     | Fluoride (as F )                         | APHA(24th edition) :4500F-D:2023                 | <0.05     | mg/l   | 1.0               | 1.5               |
| 15     | Sulphate(as SO <sub>4</sub> )            | APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023 | 56.4      | mg/l   | 200               | 400               |
| 16     | Nitrate (as NO <sub>3</sub> )            | APHA (24th edition) 4500 NO <sub>3</sub> B :2023 | 2.1       | mg/l   | 45                | --                |
| 17     | Iron(as Fe)                              | APHA (24th edition) 3500 Fe B :2023              | 0.065     | mg/l   | 0.03              | --                |

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|    |                  |                                     |      |      |    |    |
|----|------------------|-------------------------------------|------|------|----|----|
| 18 | Temperature      | APHA (24th Edition 2017, 2550B      | 25.6 | °C   | -- | -- |
| 19 | Acidity          | APHA(24thedition)2310 B : 2023      | BDL  | mg/l | -- | -- |
| 20 | Sodium (as Na)   | APHA (24th edition) 3500- Na B:2023 | 6.7  | mg/l | -- | -- |
| 21 | Potassium (as K) | APHA(24thedition) 3500-KB :2023     | 1.4  | mg/l | -- | -- |

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4. This analyzed parameters are found within the limit.

Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh

Designation: CEO

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## TEST REPORT

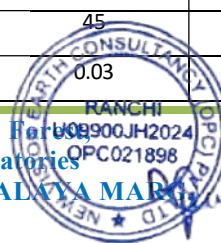
### (WATER)

|   |  |                             |                                      |
|---|--|-----------------------------|--------------------------------------|
| Client Reference No:                            | NVEC/RNC/WO/25/03/20/001   | ULR NO :                    | TC1407525000000265F                  |
| Name & Address of Client :                      | <b>FAIRMINE CARBONS PVT LTD<br/>(RAJHARA MINE)<br/>NEAR PANDWA, POLICE STATION<br/>DALTONGANG, JHARKHAND</b> | Report No.:                 | NVEC/RNC/24-25/267                   |
|   |  | Report Release Date :       | 29/03/2025                           |
|   |  | Sampling Date :             | 23/03/2025                           |
|   |  | Sample Receipt Date :       | 24/03/2025                           |
|   |  | Sample ID:                  | NVEC/GW/25/05/02/014                 |
| Plant Status :                                  | OPERATIONAL  | Period of Analysis          | 24/03/2025 to 28/ 03/2025            |
| Sampling Location /Source:                      | R AND R SITE,<br>GROUND WATER (BORWELL 2)  | Type of Sampling:           | GRAB                                 |
| Client Representative<br>(Name & Designation) : | <b>NARENDRA KR SINGH &amp;<br/>SR. SUPERVISOR</b>  | Sample Description:         | GROUND WATER                         |
|   |  | Sample Condition:           | SEALED & PRESERVED                   |
| Sample collected by<br>(Name & Designation) :   | <b>NVEC TEAM</b>   | Sample Quantity :           | 5 Liter                              |
|   |  | Preservation :              | H <sub>2</sub> SO <sub>4</sub> , HCL |
| Latitude :                                      | 24°09'15.55"N  | Sampling Protocol/Procedure | VEC/WATER/SP/13                      |
| Longitude :                                     | 84°02'33.58"E  |                             |                                      |

## TEST RESULT

| S. No. | Parameter                                | Protocol   | Result    | Unit   | As per 10500:2012 |                   |
|--------|--|--|-----------|--------|-------------------|-------------------|
|        |  |  |           |        | Acceptable Limit  | Permissible Limit |
| 1      | pH Value                                 | APHA (24th edition) 4500-H+ :2023                | 6.877     | -      | 6.5-8.5           | 6.5-8.5           |
| 2      | Conductivity                             | IS: 3025(Part 14) : 2013(RA2023)                 | 1176      | μS/c m | --                | --                |
| 3      | Colour                                   | APHA 24th Edition 2120 B:2023                    | <5.0      | Cu     | 5                 | 15                |
| 4      | Odor                                     | APHA(24th edition) 2150B:2023                    | Agreeable | -      | Agreeable         | Agreeable         |
| 5      | Taste                                    | APHA (24th edition) 2160C : 2023                 | Agreeable | -      | Agreeable         | Agreeable         |
| 6      | Turbidity                                | APHA(24th edition) 2130B:2023                    | BDL       | NTU    | 1.0               | 5.0               |
| 7      | Free Residual Chlorine                   | APHA(24th edition) 4500 Cl-B :2023               | BDL       | mg/l   | 0.2               | 1.0               |
| 8      | Total Dissolved Solids (TDS)             | APHA (24th edition) 2540 C :2023                 | 764.4     | mg/l   | 500               | 2000              |
| 9      | Total Alkalinity (as CaCO <sub>3</sub> ) | APHA(24th edition) 2320 B: 2023                  | 10.3      | mg/l   | 200               | 600               |
| 10     | Total Hardness (as CaCO <sub>3</sub> )   | APHA (24th edition) 2340 C:2023                  | 314       | mg/l   | 200               | 600               |
| 11     | Calcium (as Ca)                          | APHA (24th edition) 3500 Ca-B:2023               | 64.3      | mg/l   | 75                | 200               |
| 12     | Magnesium (as Mg)                        | APHA(24th edition) 3500-Mg-B:2023                | 37.6      | mg/l   | 30                | 100               |
| 13     | Chloride(as Cl )                         | APHA (24th edition) 4500-Cl- B :2023             | 102.4     | mg/l   | 250               | 1000              |
| 14     | Fluoride (as F )                         | APHA(24th edition) :4500F-D:2023                 | <0.005    | mg/l   | 1.0               | 1.5               |
| 15     | Sulphate(as SO <sub>4</sub> )            | APHA(24th edition) 4500 SO <sub>4</sub> -2E:2023 | 35.6      | mg/l   | 200               | 400               |
| 16     | Nitrate (as NO <sub>3</sub> )            | APHA (24th edition) 4500 NO <sub>3</sub> B :2023 | 2.3       | mg/l   | 45                | 45                |
| 17     | Iron(as Fe)                              | APHA (24th edition) 3500 Fe B :2023              | 0.078     | mg/l   | 0.03              | --                |

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|    |                  |   |      |      |    |    |
|----|------------------|---|------|------|----|----|
| 18 | Temperature      | APHA 24 <sup>rd</sup> Edition 2017, 2550B | 25.7 | °C   | -- | -- |
| 19 | Acidity          | APHA(24th edition) 2310 B : 2023          | BDL  | mg/l | -- | -- |
| 20 | Sodium (as Na)   | APHA (24th edition) 3500- Na B:2023       | 6.4  | mg/l | -- | -- |
| 21 | Potassium (as K) | APHA(24th edition) 3500-KB :2023          | 1.6  | mg/l | -- | -- |

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Reviewed by:

*Krishna Kumar*

Name: Krishna Kumar

Designation: Quality Manager



Authorized Signatory:

*Ajay Kumar Singh*

Name: Ajay Kumar Singh

Designation: CEO

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