

**ENVIRONMENTAL CLEARANCE – COMPLIANCE REPORT****EC Letter No. - EC25C1011TN5592051N dated 13.08.2025****Standard EC Conditions for (Metallurgical Industries (ferrous and non-ferrous))****1. Statutory Compliance**

| <b>S. No.</b> | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Status of compliance</b>         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1.            | The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts / Rules /Subordinate legislations, etc., as may be applicable to the project. | Noted and agree to comply the same. |

**2. Air Quality Monitoring and Preservation**

| <b>S. No.</b> | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Status of compliance</b>                                                                                                                                                                                                                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04/06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (Case to case basis small plants: Manual; Large plants: Continuous and their nos.) | We have installed 24x7 continuous emission monitoring system at process stacks as well as 04/06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters and connected to the SPCB and CPCB online servers and calibrate these systems from time to time through NABL accredited laboratory. |
| 2.            | The project proponent shall 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                                                                                                                                                                                                                                                                                                                                                               | We are carrying out Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released within and outside the plant area, covering upwind and downwind directions.                                                                                                     |

|     |                                                                                                                                                                                                                                     |                                                                                                                                                                     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.                                                                                                                         |                                                                                                                                                                     |
| 3.  | 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.               | We are monitoring fugitive emissions in the plant premises once in every quarter through NABL accredited laboratory.                                                |
| 4.  | Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.                                                                                            | We are providing sampling facility at process stacks and at quenching towers for manual monitoring of emissions.                                                    |
| 5.  | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards. | We have provided Appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources.             |
| 6.  | The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.                                                                                                        | We have provided leakage detection and mechanized bag cleaning facilities.                                                                                          |
| 7.  | Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.                                                                                                    | We have provided Sufficient number of mobile and stationery vacuum cleaners to clean plant roads, shop floors, roofs, regularly.                                    |
| 8.  | Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.                                                                                       | We ensure covered transportation and conveying of raw material and use of closed bulkers for carrying fly ash.                                                      |
| 9.  | Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.                      | We are recycling and reusing iron ore fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration. |
| 10. | The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.                                                                                                            | We are using leak proof trucks / dumpers carrying coal and other raw materials and covering them with tarpaulin.                                                    |
| 11. | The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.                                                                                                                    | We have provided fume extraction system at all Induction furnaces.                                                                                                  |
| 12. | Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.                                                                                                                                         | We agree to provide wind shelter fence and chemical spraying on the raw material stock piles.                                                                       |
| 13. | Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.                                                                                                          | Ventilation system is designed for adequate air changes as per prevailing norms for all tunnels, motor houses,                                                      |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                            |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Oil Cellars.                                                                                                                                                                                                                                                                               |
| 14. | Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | We have provided the pollution control system in the plant as per the CREP Guidelines of CPCB.                                                                                                                                                                                             |
| 15. | The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. | We have adopted Clean Air practices by installing Bag filters, Fume extraction system, Suction hood, cassette filter, Paint trap filters and acoustic enclosures.                                                                                                                          |
| 16. | Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | We are monitoring the efficiency and regularly cleaning the bag filters.                                                                                                                                                                                                                   |
| 17. | Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | We have installed Water Sprinklers near raw material yards, operational units and other strategic locations to control fugitive emissions.                                                                                                                                                 |
| 18. | The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.                                                                                                                                                                                                                                                                                                                                                                                                   | The particulate matter emissions from the process stacks will be less than 30 mg/Nm <sup>3</sup> and measures are undertaken as per the submitted action plan. Efficient Air monitoring equipment are installed.                                                                           |
| 19. | Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.                                                                                                                                                                                            | a. We have installed Water Sprinklers near raw material yards, operational units and other strategic locations to control fugitive emissions.<br>b. Proper covered vehicles are used while transport of materials.<br>c. We have provided wheel washing mechanism in entry and exit gates. |

**7. Water Quality Monitoring and Preservation**

| <b>S. No.</b> | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Status of compliance</b>                                                                                                                                                                                                  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. | We have installed 24x7 continuous effluent monitoring system and connected to SPCB and CPCB online servers and calibrating this system from time to time.                                                                    |
| 2.            | 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 regularly monitoring ground water quality twice a year at sufficient numbers of piezometers /sampling wells in the plant and adjacent areas through NABL accredited laboratory.                                       |
| 3.            | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.                                                                                                                                                                                                                                                                                                                   | Existing STP of 30 KLD & Proposed STP of 50 KLD is sufficient for the treatment of domestic wastewater to meet the prescribed standards.                                                                                     |
| 4.            | 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.                                                                                                                                                                                                                                               | We have provided Garland drains and collection pits 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.                                           |
| 5.            | Tyre washing facilities shall be provided at the entrance of the plant gates.                                                                                                                                                                                                                                                                                                                                                     | We have provided Tyre washing facilities at the entrance of the plant gate.                                                                                                                                                  |
| 6.            | Water meters shall be provided at the inlet to all unit processes in the steel plants.                                                                                                                                                                                                                                                                                                                                            | We have provided water meters at the inlet to all unit processes in the steel plants.                                                                                                                                        |
| 7.            | The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.                                                                                                                                                                                                                                            | We are making efforts to minimize water consumption by segregation of used water, practicing cascade use and by recycling treated water.                                                                                     |
| 8.            | The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall                                                                                                                                                                                   | The proposed project is designed as Zero Liquid Discharge Plant. There is no generation of effluent in the plant premises. Suitable measures are adopted for sewage water handling to ensure no contamination of any kind of |

| S. No. | Condition                                                                                                                                                                                                                                                                             | Status of compliance                                                                                                                                                                 |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | be adopted for sewage water handling to ensure no contamination of any kind of water body.                                                                                                                                                                                            | water body.                                                                                                                                                                          |
| 9.     | All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report. | All stockyards have impervious flooring and equipped with water spray system for dust suppression. Stock yards also have garland drains and catch pits to trap the run off material. |
| 10.    | Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.                                                                                                                                                          | We have installed Rain water harvesting to recharge/harvest water.                                                                                                                   |

#### 10. Noise Monitoring and Prevention

| S. No. | Condition                                                                                                                                                                                                                                                          | Status of compliance                                                                                                                                     |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. | We have monitored noise pollution levels as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof.              |
| 2.     | The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.                                                                                                          | The ambient noise levels are conformed to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time. |

#### 11. Energy Conservation Measures

| S. No. | Condition                                                                                                                                                                          | Status of compliance                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1.     | Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.                                                               | We have ladles with covered top for the transfer of hot metals.                                                 |
| 2.     | Restrict Gas flaring to < 1%.                                                                                                                                                      | We have Restricted Gas flaring to < 1%.                                                                         |
| 3.     | Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly. | We have provided solar panels on roof tops of buildings and solar street lights and maintaining them regularly. |
| 4.     | Provide LED lights in their offices and residential areas.                                                                                                                         | We have provided LED lights in our offices.                                                                     |

**15. Waste Management**

| <b>S. No.</b> | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Status of compliance</b>                                                                                                                                                                  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | We have provided oil collection pits in oil cellars to collect and reusing/recycling spilled oil. Oil collection trays are provided under coils on saddles in cold rolled coil storage area. |
| 2.            | Kitchen waste shall be composted or converted to biogas for further use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | There is no generation of kitchen waste in the plant premises.                                                                                                                               |
| 3.            | Used refractories shall be recycled as far as possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | We are recycling refractories as far as possible.                                                                                                                                            |
| 4.            | 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 shall be submitted to the Ministry's Regional Office.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | We ensure 100% utilization of fly ash. All the fly ash will be provided to cement and brick manufacturers for further utilization.                                                           |
| 5.            | The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs) /Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines">https://cpcb.nic.in/technical-guidelines</a> 3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents. | There will be no use of Single Use Plastic in the plant premises.                                                                                                                            |
| 6.            | A proper action plan must be implemented to dispose of the electronic waste generated in the industry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E-waste generated in the plant will be disposed to authorized recyclers.                                                                                                                     |
| 7.            | Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | a. We have installed slag crusher to convert steel slag into aggregate and                                                                                                                   |

| S. No. | Condition                                                                                                                                                                                                                                                                            | Status of compliance                                                                                                                                                                               |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible. | using it for Road lying & construction filling.<br>b. We are recycling/reusing solid waste generated in the plant as far as possible.<br>c. Used refractories will be recycled as far as possible. |

**18. Green Belt**

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Status of compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.                                                                                                                                                                                                                                                                                                                                                                                                   | We agree to prepare GHG emissions inventory for the plant and submit the programme for reduction of the same including carbon sequestration by trees.                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2.     | Project proponent shall submit a study report on Decarbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. | We agree to submit a study report on Decarbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report will also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments will be measurable and monitor able with defined time frames. |
| 3.     | Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.                                                                                                                                                                                                                                                                                                                                                                                                                                               | Greening and Paving are implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**19. Public Hearing and Human Health Issues**

| S. No. | Condition                                                                                                                                    | Status of compliance                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan are implemented. |
| 2.     | The project proponent shall carry out heat stress analysis for the workmen who work                                                          | The persons who are working at high temperature are provided with proper                                                                |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|    | in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.                                                                                                                                                                                                                                                                                                                                                                                                     | PPE and carried out heat stress analysis.                                                                              |
| 3. | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.                                                                                                                                               | All the required amenities and facilities are provided for the construction labours.                                   |
| 4. | Occupational health surveillance of the workers shall be done on a regular basis and records maintained.                                                                                                                                                                                                                                                                                                                                                                                            | Occupational health surveillance of the workers has done on a regular basis and records maintained.                    |
| 5. | All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. PP shall adopt nearby villages and prepare and implement a robust plan to develop them into model villages in next 10 years. | All the commitments made towards socio-economic development of the nearby villages will be satisfactorily implemented. |

## **20. Environment Management**

| <b>S. No.</b> | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Status of compliance</b>                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.            | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed. | We are complying with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company will adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed. |
| 2.            | 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                                                                                                                                                                                                                        | We are having a well laid down environmental policy duly approved by the Board of Directors. We are having a defined system of reporting deviation / violation of the environmental norms /                                                                                                                                                                                                         |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Status of compliance                                                                                                                                     |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | checks and balances and to bring into focus any infringements /deviation / violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. | conditions to all the stake holders.                                                                                                                     |
| 3.     | 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.                                                                                                                                                                                                                                             | An Environmental Cell is created which are headed by VP – Foundry and supported by officers from different departments.                                  |
| 4.     | Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.                                                                                                                                                                                                                                                                                                      | Performance test has been conducted on all pollution control systems every year and reports were submitted to Integrated Regional Office of the MoEF&CC. |

## 21. Miscellaneous

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                   | Status of compliance                                                                                                                  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | 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. | We have published the Environmental Clearance details in Dinamani (Tamil) on 21.08.2025 & The Indian Express (English) on 21.08.2025. |
| 2.     | 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 a copy of our Environmental Clearance to Perundurai Panchayat Union.                                                |
| 3.     | The project proponent shall upload the status of compliance of the stipulated environment clearance conditions,                                                                                                                                                                                                                                                                                                             | We will upload the status of compliance of the stipulated environment clearance conditions,                                           |

| S. No. | Condition                                                                                                                                                                                                                                                                                                          | Status of compliance                                                                                                                                                                                                                             |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | including results of monitored data on their website and update the same on half-yearly basis.                                                                                                                                                                                                                     | including results of monitored data on their website and update the same on half-yearly basis.                                                                                                                                                   |
| 4.     | The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (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. | We are regularly monitoring the pollutant levels and display the results the same at a convenient location for disclosure to the public and ensure to put the same on the website.                                                               |
| 5.     | Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented                                                                                                                                                                                                 | Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines will be implemented                                                                                                                                |
| 6.     | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.                                                                        | We will submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.                          |
| 7.     | 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.                                       | We are submitting the Environmental Statement (Form-V) to TNPCB under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.                                                                   |
| 8.     | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.                                               | We will inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project. |
| 9.     | 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.                                                                                          | We will abide by all the commitments and recommendations made in the EMP report and also that during our presentation to the Expert Appraisal Committee.                                                                                         |
| 10.    | The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report                                                                                         | Not Applicable since there is no schedule-I species recorded in the study area.                                                                                                                                                                  |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Status of compliance                                                                                                                                                            |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                 |
| 11.    | The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain. | We agree to put all the environment related expenditure, and other commitments made in the EMP Report etc. in the company web site for the information to public/public domain. |
| 12.    | 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).                                                                                                                                                                                                                                                                                                                        | No further expansion or modifications in the plant will be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).             |
| 13.    | 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 and agree to comply the same.                                                                                                                                             |
| 14.    | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.                                                                                                                                                                                                                                                                                                                                                                     | Noted and agree to comply the same.                                                                                                                                             |
| 15.    | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.                                                                                                                                                                                                                                                                                                                                 | Noted and agree to comply the same.                                                                                                                                             |
| 16.    | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.                                                                                                                                                                                                                             | Noted and agree to comply the same.                                                                                                                                             |
| 17.    | 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.                                                                                                                                                                                                                                                                                                    | There is no appeal against this EC lie with the National Green Tribunal.                                                                                                        |

**STANDARD CONDITION**

| <b>S. No.</b> | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Status of compliance</b>                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b>      | <b>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.                                                                                                                                                                                                                                                                           | The project site is located inside SIPCOT Industrial Growth Centre and no forest land is involved.                                             |
| ii.           | The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.                                                                                                                                                                                                                                                                                                                                                                              | Not Applicable as the site not located in any of the Eco Sensitive Zones.                                                                      |
| 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-I species in the study area) | Not Applicable since there is no schedule-I species recorded in the study area.                                                                |
| iv.           | 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.                                                                                                                                                                                                           | We are in process of obtaining Consent to Establish under Air & Water act from TNPCB.                                                          |
| v.            | The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time                                                                                                                                                                                                                                                                                                                                       | We are operating our plant with valid Hazardous waste authorization and ensure to renew the same regularly.                                    |
| vi.           | The Company shall strictly comply with the rules and guidelines under Manufacture. Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989                                                                                                                                                                                                          | We ensure to comply with Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989.                                           |
| <b>B</b>      | <b>Air Quality Monitoring and Preservation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |
| i.            | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards                                                                                                                                                                                                                                                                                                                           | The induction furnace stack is provided with 24x7 continuous emission monitoring system to monitor stack emission and the same is connected to |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Status of compliance                                                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (protection) Act, 1986 or NABL accredited laboratories.                                                                                                                                                                                                                               | SPCB online servers.                                                                                                                                                                  |
| ii.    | The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (protection) Act, 1986.                                                                                                                                                                                                                                                                                                                                              | We are monitoring the fugitive emissions in the plant premises regularly on monthly basis through an NABL accredited laboratory.                                                      |
| iii.   | The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>25</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> 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 | We have provided 4 No of Ambient Air Quality monitoring stations in and around the plant area and monitoring 12 parameters as per NAAQ Standards.                                     |
| iv.    | To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines                                                                                                      | All the APC measures are suitably installed at required locations and maintain properly to the source & fugitive emission standards. No coal fired boilers are provided in the plant. |
| v.     | Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions                                                                                                                                                                                                                                                                                                                                                                              | The raw materials are stored in covered areas to prevent fugitive emissions and dust pollution.                                                                                       |
| vi.    | National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July,2010 and amended from time to time shall be followed.                                                                                                                                                                                                                                                                                                                                   | We are not involved in the manufacture of organic chemicals. We will ensure to follow the emission standards prescribed for foundry industry.                                         |
| vii.   | The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup>                                                                                                                                                                                                                                                                                                                                                                                                   | We are complying with National Ambient Air Quality Emission Standards issued by the Ministry vide                                                                                     |

| S. No.   | Condition                                                                                                                                                                                                                                                                  | Status of compliance                                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | November, 2009 shall be complied with.                                                                                                                                                                                                                                     | G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009.                                                                                                                                      |
| <b>C</b> | <b>Water Quality Monitoring and Preservation</b>                                                                                                                                                                                                                           |                                                                                                                                                                                               |
| i.       | The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) | We agree to provide online continuous monitoring of effluent along with web camera with night vision capability and flow meters in the channel / drain carrying effluent within the premises. |
| ii.      | As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).                                                          | We agree to ensure the Zero Liquid Discharge and no waste/treated water will be discharged outside the premises.                                                                              |
| iii.     | The effluent discharge shall conform to the standards prescribed under the Environment (protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act whichever is more stringent.                          | We agree to ensure that effluent discharge will conform to the standards prescribed under the Environment (protection) Rules, 1986, or as specified by the State Pollution Control Board.     |
| iv.      | Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.                                                                     | The freshwater requirement will not exceed the proposed limit.                                                                                                                                |
| v.       | Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.                                                                                    | The sewage generated are treated in STP and the storm water is collected through separate storm water drains.                                                                                 |
| vi.      | The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.                                                                     | The rainwater from roof tops and storm water from other areas are recharged through percolation pits.                                                                                         |
| vii.     | The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.                                                                 | The DG sets are provided with acoustic enclosures and adequate stack height as APC measures.                                                                                                  |

| S. No.   | Condition                                                                                                                                                                                                                                                                                                                                             | Status of compliance                                                                                                                                |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>D</b> | <b>Noise Monitoring and Prevention</b>                                                                                                                                                                                                                                                                                                                |                                                                                                                                                     |
| i.       | Acoustic enclosure shall be provided to DG set for controlling the noise pollution.                                                                                                                                                                                                                                                                   | The DG sets are provided with acoustic enclosures as noise control measure.                                                                         |
| ii.      | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.                                                                                                                            | The noise levels in and around the plant area is maintained within the standards by providing noise control measures.                               |
| iii.     | The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.                                                                                                                                                                                             | The ambient noise levels are maintained within the standard limits both during day & night time.                                                    |
| <b>E</b> | <b>Safety, Public hearing and human health issues</b>                                                                                                                                                                                                                                                                                                 |                                                                                                                                                     |
| i.       | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.                                                                                                                                                                                                          | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management plan are implemented.             |
| ii.      | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.                                                                                                                                                                         | Proper impact and mitigation measures are in place, and implemented readily in case of any disaster.                                                |
| iii.     | The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.                                                                                                                                                                                                                                                             | All the personals within the plant premises are provided with proper Personal Protection Equipment.                                                 |
| iv.      | Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.                                                              | Proper training is provided to workers on chemicals handling, safety and health aspects. Regular medical examinations are provided for all workers. |
| v.       | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. | All the required amenities and facilities have provided for the construction labours.                                                               |
| vi.      | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.                                                                                                                                                                                                                     | The occupational health surveillance of the workers is provided regularly and the records of the same is maintained.                                |

| S. No.   | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Status of compliance                                                                                                                                                                                                                  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| vii.     | There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Required parking space is provided within the project site and no public space is utilized for parking.                                                                                                                               |
| <b>F</b> | <b>Corporate Environment Responsibility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                            | We are complying with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018 regarding CER activity.                                                                              |
| 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 shareholder / stake holders. The copy of the board resolution in this regard shall be submitted to the MOEF&CC as a part of six-monthly report. | We are having a well laid down environmental policy duly approved by the Board of Directors. We are having a defined system of reporting deviation / violation of the environmental norms / conditions to all the stake holders.      |
| 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 report to the head of the organization.                                                                                                                                                                                                                                                                                                                                                                                                                                  | An Environmental Cell is created which are headed by VP – Foundry and supported by officers from different departments.                                                                                                               |
| 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 5 purpose. Year wise process of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six-Monthly Compliance Report.                                                                                                                                                                | An action plan for implementing EMP and environmental conditions along with responsibility matrix of the company has been prepared. The funds earmarked for environmental protection measures are not diverted for any other purpose. |

| S. No.   | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Status of compliance                                                                                                                                                                             |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| v.       | Self-environmental audit shall be conducted annually. Every three years third partly environmental audit shall be carried out.                                                                                                                                                                                                                                                                                                                                                                                              | We are conducting internal environmental audit every year and agree to conduct third partly environmental audit for every 3 years.                                                               |
| <b>G</b> | <b>Waste Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                  |
| i.       | Hazardous chemicals shall be stored in tanks, tank farms. drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.                                                                                                                                                                                                                                                                                                                                                        | Hazardous chemicals are stored in tanks, drums, carboys, etc.                                                                                                                                    |
| ii.      | Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.                                                                                                                                                                                                                                                                                                                                                   | Furnace slag, waste sand, dust from filters generated from the plant are utilized in road lying and construction filling and there is no generation of process organic residue and spent carbon. |
| iii.     | The company shall undertake waste minimization measures as below:<br>a. Metering and control of quantities of active ingredients to minimize waste.<br>b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.<br>c. Use of automated filling to minimize spillage.<br>d. Use of Close Feed system into batch reactors.<br>e. Venting equipment through vapour recovery system<br>f. Use of high pressure hoses for equipment clearing to reduce wastewater generation | We have undertaken lot waste minimization measures like reuse of scraps / runner & risers, closed feed system, etc.                                                                              |
|          | <b>Air Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                  |
| 1.       | Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.                                                                                                                                                                                                                                                                                                                                                                                                       | The stack emission levels are maintained well within the permissible limits.                                                                                                                     |
| 2.       | CEMS may be installed in all large / medium red category industries (air polluting) and connected to SPCB and CPCB server.                                                                                                                                                                                                                                                                                                                                                                                                  | We have installed CEMS and connected the same with TNPCB server.                                                                                                                                 |
| 3.       | Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.                                                                                                                                                                                                                                                                                                                                                                                                                 | Fugitive emission control measures are followed at all sources of generation.                                                                                                                    |
| 4.       | Transportation of materials by mil / conveyor belt, wherever feasible.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | We are adopting a mechanical method to transport materials.                                                                                                                                      |
| 5.       | Encourage use of cleaner fuels (pet coke/ furnace oil LSHS may be avoided).                                                                                                                                                                                                                                                                                                                                                                                                                                                 | We are using Low sulphur diesel in the DG set.                                                                                                                                                   |

| S. No.                   | Condition                                                                                                                                                                     | Status of compliance                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 6.                       | Best Available Technology may be used. For example; usage of EAF / SAF / IF in place of Cupola furnace. Usage of Supercritical technology in place of subcritical technology. | We have provided Induction furnaces in our plant.                                                                                    |
| 7.                       | Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.                                                      | We have allotted 33% of the land area for greenbelt development so far, we will try to increase the green cover by 40%.              |
| 8.                       | Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.                                            | Noted and agreed to comply the same.                                                                                                 |
| 9.                       | Assessment of carrying capacity of transportation load on roads inside the industrial premises.                                                                               | The carrying capacity of the transportation vehicles are maintained within the limits inside the plant premises.                     |
| <b>Water Environment</b> |                                                                                                                                                                               |                                                                                                                                      |
| 1.                       | Reuse/recycle of treated wastewater, wherever feasible.                                                                                                                       | We are reusing the treated sewage for greenbelt development.                                                                         |
| 2.                       | Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting).                                                             | We agree to continuous monitor effluent quality / quantity.                                                                          |
| 3.                       | A detailed water harvesting plan may be submitted by the project proponent.                                                                                                   | We are following the water harvesting plan in our unit.                                                                              |
| 4.                       | Zero liquid discharge wherever techno - economically feasible.                                                                                                                | We are reusing the treated sewage entirely within the project site to achieving ZLD.                                                 |
| <b>Land Environment</b>  |                                                                                                                                                                               |                                                                                                                                      |
| 1.                       | Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects.                                    | We have allotted 33% of the land area for greenbelt development so far, we will try to increase the green cover by 40%.              |
| 2.                       | Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc                                             | Noted and agreed to comply the same.                                                                                                 |
| 3.                       | Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.                                                        | We are storing the Furnace slag, waste sand, dust from filters within the plant and utilized in road lying and construction filling. |
| 4.                       | More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co processing.                                                   | The hazardous waste generated from the project site are disposed to TNPCB authorized recyclers / pre-processors for co-processing.   |
| 5.                       | Monitoring of compliance of EC conditions may be submitted with third                                                                                                         | We agree to submit the monitoring of compliance of EC conditions with third                                                          |

| S. No.   | Condition                                                                                                                                                                                                                                                                                                | Status of compliance                                                                                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | party audit every year.                                                                                                                                                                                                                                                                                  | party audit every year.                                                                                                                                                                                                                       |
| 6.       | The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance                                                                                                                                                     | Not applicable as the site is not located in SPA / CPA.                                                                                                                                                                                       |
| <b>H</b> | <b>Specific Conditions</b>                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                               |
| i.       | It is mandatory for the project proponent to furnish to the SEIAA, half yearly compliance report in hard and soft copies on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.                 | We are submitting the Half Yearly compliance report to SEIAA in hard and soft copies on 1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year in respect of the conditions stipulated in the prior Environmental Clearance. |
| ii.      | "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site                                                                                       | We are in process of obtaining CTE from TNPCB and we ensure to submit the same to SEIAA, TN.                                                                                                                                                  |
| iii.     | "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.                                                                                                                        | We will start the operation only after obtaining CTO from TNPCB and the copy of the same will be submitted to SEIAA-TN.                                                                                                                       |
| iv.      | The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management and CSR Activities should be carried out as proposed and committed. Regular monitoring should be carried out during operation phases. | The Environmental Management Plan and CSR activities will be properly implemented as proposed and regular monitoring will be carried out during operational phase.                                                                            |
| v.       | The residue collected from the evaporator shall be documented by maintaining proper register and it should be made available at the time of inspection.                                                                                                                                                  | No solar pan is provided or proposed in our plant.                                                                                                                                                                                            |
| vi.      | Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational -health standards and ambient air quality standards                                                                                                      | We have provided adequate dust extraction system at all dust generation sources to maintain the ambient air quality and occupational health standards.                                                                                        |
| vii.     | The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.                                                                                                                                     | Proper housekeeping is ensured at all locations within the plant premises                                                                                                                                                                     |
| viii.    | Nature of chemicals Handled, the Do and                                                                                                                                                                                                                                                                  | We have provided the Do's and Don'ts                                                                                                                                                                                                          |

| S. No. | Condition                                                                                                                                                                                                                                                                                                            | Status of compliance                                                                                                                                                            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Don'ts shall be displayed at all vital locations as laid down in MSDS.                                                                                                                                                                                                                                               | of all chemicals handled in the display boards with in the project site.                                                                                                        |
| ix.    | The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated                                                                                                                                                                                      | We are maintaining the data of hazardous waste generated & disposed to various vendors to ensure disposal of entire quantity.                                                   |
| x.     | The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as Proposed.                                                                                                                                                                                          | The hazardous and non-hazardous solid wastes are stored at designated storage areas within the project site.                                                                    |
| xi.    | The proponent shall dispose Hazardous waste generated as per the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers                          | The hazardous wastes generated from the plant are stored in designated places using suitable containers and disposed to TNPCB authorized recyclers.                             |
| xii.   | The Plastic wastes shall be segregated and disposed as per the provisions of plastic Waste (Management & Handling) Rules 2016                                                                                                                                                                                        | Plastic wastes are disposed as per the provisions of plastic Waste (Management & Handling) Rules 2016.                                                                          |
| xiii.  | The e-waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2016 as amended.                                                                                                                                                          | The e-waste is disposed to authorized vendors as per e waste (Management & Handling), Rules 2016.                                                                               |
| xiv.   | The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.                                                                                                                                                                                           | The municipal solid waste generated from the project site are managed as per Solid Waste Management Rules, 2016.                                                                |
| xv.    | The industry shall conduct air sampling at least once in six months for the general core parameters (PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>x</sub> , NO <sub>x</sub> , through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection. | We are conducting the air sampling once in a month covering all the parameters of NAAQS and once in a year through TNPCB lab. The results are maintained in the plant premises. |
| xvi.   | Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.                                                                               | We are carrying out regular monitoring for air, water and noise quality in and around the project site and the records of the same are maintained properly.                     |
| xvii.  | A separate environment and safety management cell with qualified staff shall be set up before establishment of the                                                                                                                                                                                                   | A separate environment and safety management cell with qualified staff are set up in our plant and the same is                                                                  |

| S. No. | Condition                                                                                                                                                                                                                                                                                                             | Status of compliance                                                                                                                                                                |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards                                                                                                                                                                                 | maintained well for implementation of the stipulated environmental safeguards                                                                                                       |
| xviii. | The Green belt area already developed within the project area shall be properly maintained.                                                                                                                                                                                                                           | We ensure to properly maintain the greenbelt provided in the project site.                                                                                                          |
| xix.   | The green belt of 5- 10 m width shall be developed in more than 33% of the total project area mainly along the plant periphery, in downward wind direction, and along road sides etc. selection of plant species shall be as per the CPCB guidelines in consultation with the state Forest Department.                | We have provided 33% of the total land area for greenbelt development and adequate width of greenbelt will be maintained along the plant periphery.                                 |
| xx.    | The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.                                                                                                                                                                     | We are properly developing greenbelt within the project site to neutralize the carbon foot print.                                                                                   |
| xxi.   | The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage                                                                                                                                | All impact and mitigation measures are kept ready in case of any emergencies.                                                                                                       |
| xxii.  | The energy sources for lighting purposes shall preferably be LED based.                                                                                                                                                                                                                                               | We ensure to provide LED lightings at all possible locations.                                                                                                                       |
| xxiii. | The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.                                                                                                                                                                                              | We agree to conduct air sampling at least twice in a week as stipulated under EP Act 1986.                                                                                          |
| xxiv.  | Risk cum disaster management plan should be in placed in the industry premises at all time.                                                                                                                                                                                                                           | The disaster management plan is made and the same is placed in the plant.                                                                                                           |
| xxv.   | Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.                                                                                                   | Adequate rainwater harvesting measures are provided to augment ground water and for collection and reuse.                                                                           |
| xxvi.  | The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises. | There will not be any change in the natural drainage pattern, the storm water drains provided all along the project site are used for collection & proper disposal of runoff water. |
| xxvii. | The Environmental Clearance is issued                                                                                                                                                                                                                                                                                 | Noted and agreed to comply the same.                                                                                                                                                |

| S. No.  | Condition                                                                                                                                                                                                                                                                                                                                               | Status of compliance                                                                                                        |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|         | without prejudice to any order that may be passed by the Hon'ble NGT/ Hon'ble High Court of Madras.                                                                                                                                                                                                                                                     |                                                                                                                             |
| xxviii. | All the assurances given in EIA and EMP shall be adhered strictly.                                                                                                                                                                                                                                                                                      | We ensure to strictly adhere to the assurances given in EIA and EMP.                                                        |
| xxix.   | Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.                                                                                                                                                                             | We agree to carry out the detailed study for Risk management and detailed Disaster management plan prepared for compliance. |
| xxx.    | Sufficient funds should be provided for Disaster management                                                                                                                                                                                                                                                                                             | We have provided sufficient funds for disaster management.                                                                  |
| xxxi.   | The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.                                                                                                                                                                                             | The treated sewage is disinfected by UV system before utilizing for greenbelt development.                                  |
| xxxii.  | The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.                                                                                                                                        | The hazardous waste storage area is properly ventilated for free air circulation.                                           |
| xxxiii. | The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.                                                                                                                  | We ensure to carryout safety audit at different operating zones of the plant every year.                                    |
| xxxiv.  | The project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.                                                                                                                                             | We have provided proper training to the workforce on safety standards for safe operation.                                   |
| xxxv.   | As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed. | Noted and agreed to comply the same.                                                                                        |
| xxxvi.  | The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.                                                                                                                                                                                                                                   | The industrial activity will not cause any impact on the nearby agricultural and irrigation lands.                          |
| xxxvii. | The EMP cost and operation and                                                                                                                                                                                                                                                                                                                          | Noted and agreed to comply the same.                                                                                        |

| S. No.   | Condition                                                                                                                                                                                                  | Status of compliance                                                                                                        |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|          | maintenance cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually                      |                                                                                                                             |
| xxxviii. | There should be no threat to Bio diversity due to the operation of the industry.                                                                                                                           | The industrial operation will not cause any impact to the biodiversity of the surrounding area.                             |
| xxxix.   | The flora & fauna present in and around the project site should not get affected due to the activity as reported.                                                                                          | No impact caused to the flora & fauna surrounding the project site.                                                         |
| xl.      | The Project Proponent has to provide rain water harvesting collection tank capacity with Recharging pit in order to recover and reuse the rain water during normal rains                                   | We have provided a rain water harvesting collection tank with adequate capacity to recover and reuse.                       |
| xli.     | The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site                                                                                    | The industrial operation will not cause any impact to the soil, micro flora & Fauna present in and around the project site. |
| xlii.    | The project proponent shall carry out risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared. | We have prepared a detailed of risk management plan.                                                                        |
| xlili.   | The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries pipes, etc.                                                                      | Proper housekeeping is maintained within the project site at all locations.                                                 |
| xliv.    | The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.                                                                                                | We are continuously monitoring the VOC and maintain the VOC levels within permissible limits.                               |

**Part I - General Conditions:**

| S. No. | Condition                                                                                                                                                                                                                                                                                                           | Status of compliance                                                                                                                  |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | This Environmental Clearance shall not be cited to relax any other rules applicable to this Project.                                                                                                                                                                                                                | Noted and agreed to comply the same.                                                                                                  |
| 2.     | The Project Proponent should advertise at least in two local newspapers widely Circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the Environmental Clearance informing that the project has been accorded environmental clearance and a copy of | We have published the Environmental Clearance details in Dinamani (Tamil) on 21.08.2025 & The Indian Express (English) on 21.08.2025. |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                               | Status of compliance                                                                                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | the clearance letter is available with TNPCB.                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                    |
| 3.     | A copy of the Environmental Clearance shall be sent by the project proponent to concerned local body and local NGO, if any from whom suggestions / representatives, if any were received while processing the proposal.                                                                                                                                                                                 | We have submitted a copy of our Environmental Clearance to the Perundurai Panchayat Union.                                                                                         |
| 4.     | 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.                                                | We are regularly monitoring the pollutant levels and display the results the same at a convenient location for disclosure to the public and ensure to put the same on the website. |
| 5.     | The Environmental Clearance shall also be put on the website of the company.                                                                                                                                                                                                                                                                                                                            | We have uploaded the copy of EC in our company website.                                                                                                                            |
| 6.     | No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | We agree to not carry out any expansion or modernization in the project without prior approval of the SEIAA-TN.                                                                    |
| 7.     | All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.                                                                                                                                                                                                                                                                                       | We are complying with all the environmental protection measures and safeguards as recommended in the EIA report.                                                                   |
| 8.     | 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.                                                                                                                            | We are submitting the Environmental Statement (Form-V) to TNPCB under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.     |
| 9.     | The implementation of the project vis-a-vis environmental action plans shall be monitored by the regional office of MoEF & CC at Chennai, TNPCB and CPCB. A six-monthly compliance status report shall be submitted to monitoring agencies regularly.                                                                                                                                                   | We are submitting the six-monthly compliance report regularly to the regional office of MoEF & CC at Chennai, SEIAA, TNPCB and CPCB.                                               |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                           | Status of compliance                                                                                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.    | Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional office of MoEF & CC, GOI, at Chennai, TNPCB and Central Pollution Board as well as hard copy once in six months and display data on RSPM, SO <sub>2</sub> , and NO <sub>x</sub> outside the premises at the appropriate place for the general public.                         | Data on ambient air, stack and fugitive emissions are regularly submitted online / offline to the Regional Office of MoEF&CC at Chennai, SEIAA, TNPCB and CPCB as well as hard copy once in six months.                        |
| 11.    | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.                                                                                                                                                                                                                                                   | The occupational health surveillance is provided to the workers regularly and the records of the same are maintained.                                                                                                          |
| 12.    | Proper house-keeping and cleanliness must be maintained within and outside the plant.                                                                                                                                                                                                                                                                                               | We have provided Proper house-keeping within and outside the plant.                                                                                                                                                            |
| 13.    | Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee should be maintained separately                                                  | The occupational health surveillance is provided to the workers regularly and the records of the same are maintained. The first aid facilities are provided in occupational health center is strengthened.                     |
| 14.    | The overall noise levels in and around the plant area shall be kept well within the standards prescribed for by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). | Acoustic measures have provided at all sources of noise generation to maintain the noise level within the permissible limits. The noise levels in and around the plant area shall be kept well within the standards prescribed |
| 15.    | A separate Environmental Management Cell equipped with full-fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.                                                                                                                                                       | An Environmental Cell is created under the chairmanship of Vice President – Foundry and supported by officers from different departments.                                                                                      |
| 16.    | The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management plan as furnished in the EIA report. The funds so                                                                                                                                        | The amount earmarked towards capital cost and recurring cost / annum for implementing pollution control measures is used exclusively for implementation of Environment Management plan as furnished in the                     |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Status of compliance                                                                                                                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | provided shall not be diverted for any other purposes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EIA report.                                                                                                                                                                                                            |
| 17.    | The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on the website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF & CC, GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO <sub>2</sub> , NOx (ambient levels as well as stack emissions) or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | We are uploading the status of compliance for the conditions stipulated in EC issued to our project in our company website and updated periodically. We are also submitted the same to MoEF&CC, CPCB, SEIAA and TNPCB. |
| 18.    | 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 concerned 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 environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.                                                                                                                                                                    | We are submitting the Environmental Statement (Form-V) to TNPCB before 30th September of every year. We are also submitted the same to MoEF& CC.                                                                       |
| 19.    | Environmental clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Noted and there is no court case against our Environmental Clearance.                                                                                                                                                  |
| 20.    | The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Noted and agreed to comply the same.                                                                                                                                                                                   |
| 21.    | The SEIAA/SEAC or any Competent Authority may suitably add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Chennai.                                                                                                                                                                                                                                                                                                                                                                                                                    | Noted and agreed to comply the same.                                                                                                                                                                                   |
| 22.    | The SEIAA, TN may revoke or suspend the Environmental clearance, if                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Noted and agreed to comply the same.                                                                                                                                                                                   |

| S. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Status of compliance                                                                                                     |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|        | implementation of any of the above conditions is not satisfactory.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                          |
| 23.    | The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.                                                                                                                                                                                                                   | We ensure that all details submitted for obtaining Environmental Clearance is true and no false information is provided. |
| 24.    | Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | We are trying to comply with all the conditions imposed in our Environmental Clearance.                                  |
| 25.    | The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Noted and agreed to comply the same.                                                                                     |
| 26.    | The above conditions will 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 1996, the public Liability Insurance Act, 1991, along with their amendments, draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957. National commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India,/Hon'ble High Court of Madras and any other Courts of law relating to the subject matter | Noted and agreed to comply the same.                                                                                     |
| 27.    | Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act 2010.                                                                                                                                                                                                                                                                                                                                                                                                                                   | There is no appeal against this EC lie with the National Green Tribunal.                                                 |

**TEST REPORT**

Page 1 of 1

**AMBIENT AIR MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012912-F                                                                                                                                              | Report Date :                                                                       | 05.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unlt-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Ambient Air                                                                                                                                                           | Sample Reference No :                                                               | EL-NL-AA-209-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 8 Hours                                                                                                                                                               | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Filter Paper(2 nos) & Approx 25 ml Solution(4 nos) &<br>Charcoal Tube 1 no                                                                                            | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 04.09.2025           |
| Sampling Environment Condition : | Temperature:31.7°C, RH:59.2%                                                                                                                                          | Sampling Method / Plan :                                                            | IS 5182              |
| Sample Mark :                    | Near Security Gate                                                                                                                                                    |                                                                                     |                      |
| Instruments Used for Sampling :  | Mini Combined Sampler (ID No: EL-IT-F62) with calibration validity due on 06.11.2025                                                                                  |                                                                                     |                      |

| S. No                   | Name of the Test                                       | Test Method                                      | Units             | Results | Max. Annual Average Limits of NAAQs |
|-------------------------|--------------------------------------------------------|--------------------------------------------------|-------------------|---------|-------------------------------------|
| <b>Chemical Testing</b> |                                                        |                                                  |                   |         |                                     |
| 1                       | Ammonia (as NH <sub>3</sub> )                          | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | µg/m <sup>3</sup> | 7.8     | 100                                 |
| 2                       | Arsenic (as As)                                        | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.1    | 6.0                                 |
| 3                       | Benzene (as C <sub>6</sub> H <sub>6</sub> )            | IS 5182 (Part 11) :2006                          | µg/m <sup>3</sup> | <0.5    | 5.0                                 |
| 4                       | Benzo [a] Pyrene (as C <sub>20</sub> H <sub>12</sub> ) | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.5    | 1.0                                 |
| 5                       | Carbon Monoxide (as CO)                                | SOP No.EL-SOP-ARS-17 Issue No.01 January,1: 2015 | mg/m <sup>3</sup> | <1.2    | 2.0                                 |
| 6                       | Lead (as Pb)                                           | Clause No.5 of IS 5182 (Part 22) :2004           | µg/m <sup>3</sup> | <0.1    | 0.5                                 |
| 7                       | Nickel (as Ni)                                         | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <1.0    | 20                                  |
| 8                       | Oxidants (as Ozone O <sub>3</sub> )                    | IS 5182 (Part IX) :1974                          | µg/m <sup>3</sup> | <10     | 100                                 |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> )               | IS 5182 (Part 6) :2006                           | µg/m <sup>3</sup> | 18.4    | 40                                  |
| 10                      | Particulate Matter 10µ (as PM <sub>10</sub> )          | IS 5182 (Part 23) : 2006                         | µg/m <sup>3</sup> | 43.7    | 60                                  |
| 11                      | Particulate Matter 2.5µ (as PM 2.5)                    | EPA 40 CFR (Part 50) Appendix L : July : 2011    | µg/m <sup>3</sup> | 21.6    | 40                                  |
| 12                      | Sulphur Dioxide (as SO <sub>2</sub> )                  | IS 5182 (Part 2) :2001                           | µg/m <sup>3</sup> | 9.8     | 50                                  |

**Statement of Conformity:**The concentrations of the parameters tested in the above location are within the prescribed annual average limits of NAAQs tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                     |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, If the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

Excellence Laboratory

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252



Scanned with OKEN Scanner

**TEST REPORT**

Page 1 of 1

**AMBIENT AIR MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012915-F                                                                                                                                              | Report Date :                                                                       | 05.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Ambient Air                                                                                                                                                           | Sample Reference No :                                                               | EL-NL-AA-212-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 8 Hours                                                                                                                                                               | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Filter Paper(2 nos) & Approx 25 ml Solution(4 nos) &<br>Charcoal Tube 1 no                                                                                            | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 04.09.2025           |
| Sampling Environment Condition : | Temperature:32.6°C, RH:58.9%                                                                                                                                          | Sampling Method / Plan :                                                            | IS 5182              |
| Sample Mark :                    | Near Gas Plant                                                                                                                                                        |                                                                                     |                      |
| Instruments Used for Sampling :  | Mini Combined Sampler (ID No: EL-IT-F65) with calibration validity due on 06.11.2025                                                                                  |                                                                                     |                      |

| S. No                   | Name of the Test                                       | Test Method                                      | Units             | Results | Max. Annual Average Limits of NAAQs |
|-------------------------|--------------------------------------------------------|--------------------------------------------------|-------------------|---------|-------------------------------------|
| <b>Chemical Testing</b> |                                                        |                                                  |                   |         |                                     |
| 1                       | Ammonia (as NH <sub>3</sub> )                          | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | µg/m <sup>3</sup> | <5.0    | 100                                 |
| 2                       | Arsenic (as As)                                        | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.1    | 6.0                                 |
| 3                       | Benzene (as C <sub>6</sub> H <sub>6</sub> )            | IS 5182 (Part 11) :2006                          | µg/m <sup>3</sup> | <0.5    | 5.0                                 |
| 4                       | Benzo [a] Pyrene (as C <sub>20</sub> H <sub>12</sub> ) | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.5    | 1.0                                 |
| 5                       | Carbon Monoxide (as CO)                                | SOP No.EL-SOP-ARS-17 Issue No.01 January,1: 2015 | mg/m <sup>3</sup> | <1.2    | 2.0                                 |
| 6                       | Lead (as Pb)                                           | Clause No.5 of IS 5182 (Part 22) :2004           | µg/m <sup>3</sup> | <0.1    | 0.5                                 |
| 7                       | Nickel (as Ni)                                         | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <1.0    | 20                                  |
| 8                       | Oxidants (as Ozone O <sub>3</sub> )                    | IS 5182 (Part IX) :1974                          | µg/m <sup>3</sup> | <10     | 100                                 |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> )               | IS 5182 (Part 6) :2006                           | µg/m <sup>3</sup> | 10.4    | 40                                  |
| 10                      | Particulate Matter 10µ (as PM10)                       | IS 5182 (Part 23) : 2006                         | µg/m <sup>3</sup> | 30.7    | 60                                  |
| 11                      | Particulate Matter 2.5µ (as PM 2.5)                    | EPA 40 CFR (Part 50) Appendix L : July : 2011    | µg/m <sup>3</sup> | 15.5    | 40                                  |
| 12                      | Sulphur Dioxide (as SO <sub>2</sub> )                  | IS 5182 (Part 2) :2001                           | µg/m <sup>3</sup> | 5.8     | 50                                  |

**Statement of Conformity:**The concentrations of the parameters tested in the above location are within the prescribed annual average limits of NAAQs tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                     |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

Excellence Laboratory

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252



Scanned with OKEN Scanner

**TEST REPORT**

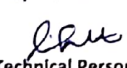
Page 1 of 1

**AMBIENT AIR MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012913-F                                                                                                                                              | Report Date :                                                                       | 05.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Ambient Air                                                                                                                                                           | Sample Reference No :                                                               | EL-NL-AA-210-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 8 Hours                                                                                                                                                               | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Filter Paper(2 nos) & Approx 25 ml Solution(4 nos) &<br>Charcoal Tube 1 no                                                                                            | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 04.09.2025           |
| Sampling Environment Condition : | Temperature:32.0°C, RH:59.1%                                                                                                                                          | Sampling Method / Plan :                                                            | IS 5182              |
| Sample Mark :                    | Near Power House                                                                                                                                                      |                                                                                     |                      |
| Instruments Used for Sampling :  | Mini Combined Sampler (ID No: EL-IT-F63) with calibration validity due on 06.11.2025                                                                                  |                                                                                     |                      |

| S. No                   | Name of the Test                                       | Test Method                                      | Units             | Results | Max. Annual Average Limits of NAAQs |
|-------------------------|--------------------------------------------------------|--------------------------------------------------|-------------------|---------|-------------------------------------|
| <b>Chemical Testing</b> |                                                        |                                                  |                   |         |                                     |
| 1                       | Ammonia (as NH <sub>3</sub> )                          | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | µg/m <sup>3</sup> | <5.0    | 100                                 |
| 2                       | Arsenic (as As)                                        | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.1    | 6.0                                 |
| 3                       | Benzene (as C <sub>6</sub> H <sub>6</sub> )            | IS 5182 (Part 11) :2006                          | µg/m <sup>3</sup> | <0.5    | 5.0                                 |
| 4                       | Benzo [a] Pyrene (as C <sub>20</sub> H <sub>12</sub> ) | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.5    | 1.0                                 |
| 5                       | Carbon Monoxide (as CO)                                | SOP No.EL-SOP-ARS-17 Issue No.01 January,1: 2015 | mg/m <sup>3</sup> | <1.2    | 2.0                                 |
| 6                       | Lead (as Pb)                                           | Clause No.5 of IS 5182 (Part 22) :2004           | µg/m <sup>3</sup> | <0.1    | 0.5                                 |
| 7                       | Nickel (as Ni)                                         | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <1.0    | 20                                  |
| 8                       | Oxidants (as Ozone O <sub>3</sub> )                    | IS 5182 (Part IX) :1974                          | µg/m <sup>3</sup> | <10     | 100                                 |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> )               | IS 5182 (Part 6) :2006                           | µg/m <sup>3</sup> | 12.4    | 40                                  |
| 10                      | Particulate Matter 10µ (as PM10)                       | IS 5182 (Part 23) : 2006                         | µg/m <sup>3</sup> | 40.7    | 60                                  |
| 11                      | Particulate Matter 2.5µ (as PM 2.5)                    | EPA 40 CFR (Part 50) Appendix L : July : 2011    | µg/m <sup>3</sup> | 20.5    | 40                                  |
| 12                      | Sulphur Dioxide (as SO <sub>2</sub> )                  | IS 5182 (Part 2) :2001                           | µg/m <sup>3</sup> | 6.7     | 50                                  |

**Statement of Conformity:**The concentrations of the parameters tested in the above location are within the prescribed annual average limits of NAAQs tolerance limits.

|                                                                                                                                  |                                                                                     |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**
**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduced in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**TEST REPORT**

Page 1 of 1

**AMBIENT AIR MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012914-F                                                                                                                                              | Report Date :                                                                       | 05.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Ambient Air                                                                                                                                                           | Sample Reference No :                                                               | EL-NL-AA-211-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 8 Hours                                                                                                                                                               | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Filter Paper(2 nos) & Approx 25 ml Solution(4 nos) &<br>Charcoal Tube 1 no                                                                                            | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 04.09.2025           |
| Sampling Environment Condition : | Temperature:32.0°C, RH:58.4%                                                                                                                                          | Sampling Method / Plan :                                                            | IS 5182              |
| Sample Mark :                    | PPD Back Side                                                                                                                                                         |                                                                                     |                      |
| Instruments Used for Sampling :  | Mini Combined Sampler (ID No: EL-IT-F64) with calibration validity due on 06.11.2025                                                                                  |                                                                                     |                      |

| S. No                   | Name of the Test                                       | Test Method                                      | Units             | Results | Max. Annual Average Limits of NAAQs |
|-------------------------|--------------------------------------------------------|--------------------------------------------------|-------------------|---------|-------------------------------------|
| <b>Chemical Testing</b> |                                                        |                                                  |                   |         |                                     |
| 1                       | Ammonia (as NH <sub>3</sub> )                          | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | µg/m <sup>3</sup> | <5.0    | 100                                 |
| 2                       | Arsenic (as As)                                        | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.1    | 6.0                                 |
| 3                       | Benzene (as C <sub>6</sub> H <sub>6</sub> )            | IS 5182 (Part 11) :2006                          | µg/m <sup>3</sup> | <0.5    | 5.0                                 |
| 4                       | Benzo [a] Pyrene (as C <sub>20</sub> H <sub>12</sub> ) | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <0.5    | 1.0                                 |
| 5                       | Carbon Monoxide (as CO)                                | SOP No.EL-SOP-ARS-17 Issue No.01 January,1: 2015 | mg/m <sup>3</sup> | <1.2    | 2.0                                 |
| 6                       | Lead (as Pb)                                           | Clause No.5 of IS 5182 (Part 22) :2004           | µg/m <sup>3</sup> | <0.1    | 0.5                                 |
| 7                       | Nickel (as Ni)                                         | CPCB Guidelines, Volume I, NAAQMS/36/2012: 2013  | ng/m <sup>3</sup> | <1.0    | 20                                  |
| 8                       | Oxidants (as Ozone O <sub>3</sub> )                    | IS 5182 (Part IX) :1974                          | µg/m <sup>3</sup> | <10     | 100                                 |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> )               | IS 5182 (Part 6) :2006                           | µg/m <sup>3</sup> | 16.2    | 40                                  |
| 10                      | Particulate Matter 10µ (as PM10)                       | IS 5182 (Part 23) : 2006                         | µg/m <sup>3</sup> | 37.5    | 60                                  |
| 11                      | Particulate Matter 2.5µ (as PM 2.5)                    | EPA 40 CFR (Part 50) Appendix L : July : 2011    | µg/m <sup>3</sup> | 17.7    | 40                                  |
| 12                      | Sulphur Dioxide (as SO <sub>2</sub> )                  | IS 5182 (Part 2) :2001                           | µg/m <sup>3</sup> | 8.3     | 50                                  |

**Statement of Conformity:**The concentrations of the parameters tested in the above location are within the prescribed annual average limits of NAAQs tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                     |                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

- Disclaimer :**
1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
  2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
  3. When the information supplied by the customer and can affect the validity of the results.
  4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
  5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
  6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
  7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
  8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
  9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
  10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
  11. (#) Mark Indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

## AIR POLLUTION CONTROL MEASURES





# TAMILNADU POLLUTION CONTROL BOARD



Category of the Industry :

ORANG  
E



CONSENT ORDER NO. 2504164082769 DATED: 06/02/2025.

PROCEEDINGS NO.F.4099CBS/OL/DEE/TNPCB/CBS/W/2025 DATED: 06/02/2025

**SUB:** Tamil Nadu Pollution Control Board –CONSENT TO OPERATE –After CTE -M/s. CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI, S.F.No. 77/1, 77/2 Part, 80/1A, 80/1B, 80/2A, 80/2B, 80/2C, 80/2D, 93 Part, 96 Part, 97/3 Part, KODAVADI village Kinathukadavu Taluk and Coimbatore District - Consent for the operation of the plant and discharge of sewage and/or trade effluent under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act 6 of 1974) – Issued- Reg. (Industry User ID- O23CBS56341561)

**REF:** 1. CTE Proc. No. F.4099CBS/OL/DEE/TNPCB/CBS/W&A/2023 dated 15/12/2023  
2. Unit's online application No.64082769 for CTO dated 24/12/2024  
3. IR.No. F.4099CBS/OL/AEE/CBS/2025 dated 29/01/2025  
4. Minutes of the 166th ZLCCC meeting dated 30/01/2025 vide item No.166 - 07

CONSENT TO OPERATE is hereby granted under Section 25 of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 (Central Act, 6 of 1974) (hereinafter referred to as "The Act") and the rules and orders made there under to

Vice-President Admin.& H.R.D.

M/s. CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI

S.F No. 77/1, 77/2 Part, 80/1A, 80/1B, 80/2A, 80/2B, 80/2C, 80/2D, 93 Part, 96 Part, 97/3 Part

KODAVADI Village

Kinathukadavu Taluk

Coimbatore District.

Authorising the occupier to make discharge of sewage and /or trade effluent.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2026**

  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
COIMBATORE SOUTH

To

Vice-President Admin.& H.R.D.,

M/s.CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI,

No.123/4, Sangothipalayam Road,

Arasur Post,



# TAMILNADU POLLUTION CONTROL BOARD

Coimbatore

Pin: 641407

## Copy to:

1. The Commissioner, KINATHUKADAVU-Panchayat Union, Kinathukadavu Taluk, Coimbatore District.
2. Copy submitted to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai for favour of kind information.
3. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH for favour of kind information.
4. File

## SPECIAL CONDITIONS

1. This consent to operate is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

| Sl. No.                | Description                                                                                                                                                                       | Quantity | Unit       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
| <b>Product Details</b> |                                                                                                                                                                                   |          |            |
| 1.                     | Induction furnace – 1 No of Panel Board Capacity 4500KW with two crucibles each 6.0 T Capacity (Dual Track), Melting Capacity 36450 TPA and Total Saleable Iron Casting 29160 TPA | 2430     | Tons/Month |

2. This consent to operate is valid for operating the facility with the below mentioned permitted outlets for the discharge of sewage/trade effluent. Any change in the outlets and the quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

| Outlet No.                                  | Description of Outlet | Maximum daily discharge in KLD | Point of disposal     |
|---------------------------------------------|-----------------------|--------------------------------|-----------------------|
| <b>Effluent Type : Sewage</b>               |                       |                                |                       |
| 1.                                          | Sewage                | 12.0                           | On land for gardening |
| <b>Effluent Type : Trade Effluent - NIL</b> |                       |                                |                       |

3. The effluent discharge shall not contain constituents in excess of the tolerance Limits as laid down hereunder.

**POLLUTION PREVENTION PAYS**



## TAMILNADU POLLUTION CONTROL BOARD

| Sl. No. | Parameters                                               | Unit           | TOLERANCE LIMITS - OUTLETS -Nos |                |  |  |
|---------|----------------------------------------------------------|----------------|---------------------------------|----------------|--|--|
|         |                                                          |                | Sewage                          | Trade Effluent |  |  |
|         |                                                          |                | I                               |                |  |  |
| 1.      | pH                                                       |                | 6.5 to 9                        |                |  |  |
| 2.      | Temperature                                              | oC             | -                               |                |  |  |
| 3.      | Particle size of Suspended solids                        | -              | -                               |                |  |  |
| 4.      | Total Suspended Solids                                   | mg/l           | <100                            |                |  |  |
| 5.      | Total Dissolved solids (inorganic)                       | mg/l           | -                               |                |  |  |
| 6.      | Oil & Grease                                             | mg/l           | -                               |                |  |  |
| 7.      | Biochemical Oxygen Demand (3 days at 27oC)               | mg/l           | 30                              |                |  |  |
| 8.      | Chemical Oxygen Demand                                   | mg/l           | -                               |                |  |  |
| 9.      | Chloride (as Cl)                                         | mg/l           | -                               |                |  |  |
| 10.     | Sulphates (as SO <sub>4</sub> )                          | mg/l           | -                               |                |  |  |
| 11.     | Total Residual Chlorine                                  | mg/l           | -                               |                |  |  |
| 12.     | Ammonical Nitrogen (as N)                                | mg/l           | -                               |                |  |  |
| 13.     | Total Kjeldahl Nitrogen (as N)                           | mg/l           | -                               |                |  |  |
| 14.     | Free Ammonia (as NH <sub>3</sub> )                       | mg/l           | -                               |                |  |  |
| 15.     | Arsenic (as As)                                          | mg/l           | -                               |                |  |  |
| 16.     | Mercury (as Hg)                                          | mg/l           | -                               |                |  |  |
| 17.     | Lead (as Pb)                                             | mg/l           | -                               |                |  |  |
| 18.     | Cadmium(as Cd)                                           | mg/l           | -                               |                |  |  |
| 19.     | Hexavalent Chromium (as Cr+6)                            | mg/l           | -                               |                |  |  |
| 20.     | Total Chromium (as Cr)                                   | mg/l           | -                               |                |  |  |
| 21.     | Copper (as Cu)                                           | mg/l           | -                               |                |  |  |
| 22.     | Zinc (as Zn)                                             | mg/l           | -                               |                |  |  |
| 23.     | Selenium (as Se)                                         | mg/l           | -                               |                |  |  |
| 24.     | Nickel (as Ni)                                           | mg/l           | -                               |                |  |  |
| 25.     | Boron (as B)                                             | mg/l           | -                               |                |  |  |
| 26.     | Percent Sodium                                           | %              | -                               |                |  |  |
| 27.     | Residual Sodium Carbonate                                | mg/l           | -                               |                |  |  |
| 28.     | Cyanide (as CN)                                          | mg/l           | -                               |                |  |  |
| 29.     | Fluoride (as F)                                          | mg/l           | -                               |                |  |  |
| 30.     | Dissolved Phosphates(as P)                               | mg/l           | -                               |                |  |  |
| 31.     | Sulphide (as S)                                          | mg/l           | -                               |                |  |  |
| 32.     | Pesticides                                               | mg/l           | -                               |                |  |  |
| 33.     | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | mg/l           | -                               |                |  |  |
| 34.     | Radioactive materials a) Alpha emitters                  | micro curie/ml | -                               |                |  |  |
| 35.     | Radioactive materials b). Beta emitters                  | micro curie/ml | -                               |                |  |  |
| 36.     | Fecal Coliform                                           | MPN/100ml      | <1000                           |                |  |  |

4. All units of the sewage and Trade effluent treatment plants shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl No.3 above or to achieve the zero liquid discharge of effluent as applicable.



## TAMILNADU POLLUTION CONTROL BOARD

5. The occupier shall maintain the Electro Magnetic Flow Meters/water Meters installed at the inlet of the water supply connection for each of the purposes mentioned below for assessing the quantity of water used and ensuring that such meters are easily accessible for inspection and maintenance and for other purposes of the Act.
  - a. Industrial Cooling, Spraying in mine pits or boiler feed.
  - b. Domestic purpose.
  - c. Process.
6. The occupier shall maintain the Electro Magnetic Flow Meters with computer recording arrangement for measuring the quantity of effluent generated and treated for the monitoring purposes of the Act.
7. Log book for each of the unit operations of ETP have to be maintained to reflect the working condition of ETP along with the readings of the Electro Magnetic Flow Meters installed to assess effluent quantity and the same shall be furnished for verification of the Board officials during inspection.
8. The occupier shall at his own cost get the samples of effluent/surface water/ground water collected in and around the unit by Board officials and analyzed by the TNPC Board Laboratory periodically.
9. Any upset condition in any of the plants of the factory which is, likely to result in increased effluent discharge and result in violation of the standards mentioned in Sl. No.3 above shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
10. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.
11. The occupier shall develop adequate width of green belt at the rate of 400 numbers of trees per Hectare.
12. The occupier shall provide and maintain rain water harvesting facilities.
13. The occupier shall ensure that there shall not be any discharge of effluent either treated or untreated into storm water drain at any point of time.
14. In the case of zero liquid discharge of effluent units, the occupier shall adhere the following conditions as laid under.
  - i). The occupier shall ensure zero liquid discharge of effluent, thereby no discharge of untreated / treated effluent on land or into any water bodies either inside or outside the premises at any point of time.
  - ii) The occupier shall operate and maintain the Zero liquid discharge treatment components comprising of Primary, Secondary and tertiary treatment systems at all times and ensure that the RO permeate/Evaporator condensate shall be recycled in the process and the final RO reject shall be disposed off with the reject management system ensuring zero liquid discharge of effluents in the premises.
  - iii) The occupier shall operate and maintain the reject management system effectively and recover the salt from the system which shall be reused in the process if reusable or shall be disposed off as ETP sludge.
  - iv) In case of failure to achieve zero discharge of effluents for any reason, the occupier shall stop its production and operations forthwith and shall be reported to the Member Secretary/Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
  - v) The occupier shall restart the production only after ascertaining that the Zero discharge treatment system can perform effectively for achieving zero discharge of effluents.

### Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

### Additional Conditions:



## TAMILNADU POLLUTION CONTROL BOARD

1. The unit shall not go for any expansion activity beyond 20000 sq.m. of build-up area without obtaining prior Environmental clearance from the SEIAA, Tamilnadu and consent for expansion of the Board.
2. The unit shall operate and maintain the sewage treatment plant efficiently and continuously so as to satisfy the treated sewage discharge standards prescribed by the Board.
3. The unit shall utilize the treated sewage into industry's land for gardening purposes by maintaining hydraulic loading rate of 35 KLD/hectare to avoid stagnation of water in the premises.
4. The unit shall not generate any trade effluent from its process / activity under any circumstances.
5. The unit shall operate and maintain the Mechanical Sand reclamation plant followed by Thermal Sand reclamation plant provided so as to reuse the waste resin sand generated in the process.
6. The unit shall ensure that the metal scrap used for melting is free from waste oil, or any other foreign matters and use only graded scrap obtained from authenticated sources to reduce slag generation and shall file the annual returns on such procurements periodically.
7. The unit shall make agreement with authorised vendors for the disposal of burnt sand, furnace slag, residue arising from Fettling and shot blasting.
8. The unit shall dispose the solid wastes like slag for further beneficial uses then and there to avoid accumulation of the same within the premises.
9. The workers involved in the process shall be provided with face mask, gloves, goggles and gum boots to protect against the exposure to particulate matter and dust.
10. The unit shall maintain earmarked storage area for the storage of metal scrap without any spillage here and there and shall maintain good housekeeping in and around the premises.
11. The unit shall apply and obtain authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 immediately.
12. The unit shall provide and maintain the hazardous waste display boards (English & Tamil) in front of the unit clearly updating the same regularly as mandated by the Hon'ble Supreme Court order dated 14.10.2003 in the matter of WP No.657/1995.
13. The unit shall store all the empty drums/barrels contaminated with chemicals containing hazardous waste in a closed shed until its disposal to authorized recycler to avoid contamination with water.
14. The unit shall maintain the rainwater harvesting facility properly to recharge the ground water.
15. The unit shall ensure that E-waste generated by them shall be handed over only to the registered producer, refurbished or recycler/Dismantler as per the E-waste (Management) Rules, 2022.
16. The unit shall not use 'use and throwaway plastics' such as plastic sheets used for food wrapping, spreading on dining table, etc., plastic plates, plastic coated teacups, plastic tumbler, water pouches and packets, plastic straw, plastic carry bag and plastic flags irrespective of thickness, within the industry premises. Instead, the unit shall encourage use of eco-friendly alternative such as banana leaf, arecanut palm plate, stainless steel, glass, porcelain plates/cups, cloth bag, jute bag, etc.,
17. In case of revision of consent fee by the Government, the proponent shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be initiated against the proponent as per law.
18. The issue of this Consent shall not be construed as the Right to supersede or Overrule other Acts or Rules or Bylaws or Directions etc., issued by other Government Department / Statutory Body / Local Body /Organization etc., and the unit shall abide the same, as and when issued by the respective Authority.
19. Concealing the factual data or failure to comply with any of the conditions mentioned in the consent order may result in withdrawal of this Consent and attract legal actions under the provisions of Environment (Protection) Act, 1986 and Water(P&CP) Act' 1974.

  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
COIMBATORE SOUTH



## TAMILNADU POLLUTION CONTROL BOARD

### GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in Production quantity and change in sewage/Trade effluent.
2. This Consent is issued by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished in the application will also be ground for review/variation/revocation of the Consent Order under Section 27 of the Act and to make such variation as deemed fit for the purpose of the Act.
3. The consent conditions imposed in this order shall continue in force until revoked under Section 27(2) of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Water (Prevention and Control of Pollution) Act, 1974 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Effluent Treatment Plant sufficient to ensure continuous operation of all pollution control equipments to maintain compliance.
7. The occupier shall provide all facilities to the Board officials for inspection and collection of samples in and around the factory at any time.
8. The occupier shall display the flow diagram of the sources of effluent generation and pollution control systems provided at the ETP site.
9. The solid waste such as sweepings, wastage, package, empty containers, residues, sludge including that from air pollution control equipments collected within the premises of the industrial plant shall be collected in an earmarked area and shall be disposed off properly.
10. The occupier shall collect, treat the solid wastes like food waste, green waste generated from the canteen and convert into organic compost.
11. The occupier shall segregate the Hazardous waste from other solid wastes and comply in accordance with Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
12. The occupier shall maintain good house-keeping within the factory premises.
13. All pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the trade effluent collection system only and shall not be allowed to find their way in storm drains or open areas.
14. The occupier shall ensure that there shall not be any diversion or by-pass of trade effluent on land or into any water sources.
15. The occupier shall ensure that solar Evaporation pans shall be constructed in such a way that the bottom of the solar pan is at least 1 m above the Ground level (if applicable).
16. The occupier shall furnish the following returns in the prescribed formats to the concerned District office regularly.
  - a) Monthly water consumption returns of each of the purposes with water meter readings in Form-I on or before 5th of every month.
  - b) Yearly return on Hazardous wastes generated and accumulated for the period from 1st April to 31st March in Form-4 before the end of the subsequent 30th June of every year (if applicable).
  - c) Yearly Environmental Statement for the period from 1st April to 31st March in Form -V before the end of the subsequent 30th September of every year (if applicable).
17. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
18. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poramboke lands.
19. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.



## TAMILNADU POLLUTION CONTROL BOARD

20. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
21. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
22. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Water (Prevention and Control of Pollution) Act, 1974, as amended in Form-II alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
23. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.
24. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
COIMBATORE SOUTH



## TAMILNADU POLLUTION CONTROL BOARD

POLLUTION PREVENTION PAYS



## TAMILNADU POLLUTION CONTROL BOARD

Category of the Industry :

ORANG  
E



CONSENT ORDER NO. 2504264082769 DATED: 06/02/2025.

PROCEEDINGS NO.F.4099CBS/OL/DEE/TNPCB/CBS/A/2025 DATED: 06/02/2025

**SUB:** Tamil Nadu Pollution Control Board –CONSENT TO OPERATE –After CTE -M/s. CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI , S.F.No. 77/1, 77/2 Part, 80/1A, 80/1B, 80/2A, 80/2B, 80/2C, 80/2D, 93 Part, 96 Part, 97/3 Part, KODAVADI village Kinathukadavu Taluk and Coimbatore District - Consent for operation of the plant and discharge of emissions under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) –Issued- Reg. (Industry User ID- O23CBS56341561)

**REF:** 1. CTE Proc. No. F.4099CBS/OL/DEE/TNPCB/CBS/W&A/2023 dated 15/12/2023  
2. Unit's online application No.64082769 for CTO dated 24/12/2024  
3. IR.No. F.4099CBS/OL/AEE/CBS/2025 dated 29/01/2025  
4. Minutes of the 166th ZLCCC meeting dated 30/01/2025 vide item No.166 - 07

CONSENT TO OPERATE is hereby granted under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 (Central Act 14 of 1981) (hereinafter referred to as "The Act") and the rules and orders made there under to

Vice-President Admin.& H.R.D.

M/s . CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI

S.F No. 77/1, 77/2 Part, 80/1A, 80/1B, 80/2A, 80/2B, 80/2C, 80/2D, 93 Part, 96 Part, 97/3 Part

KODAVADI Village

Kinathukadavu Taluk

Coimbatore District.

Authorizing the occupier to operate the industrial plant in the Air Pollution Control Area as notified by the Government and to make discharge of emission from the stacks/chimneys.

This is subject to the provisions of the Act, the rules and the orders made there under and the terms and conditions incorporated under the Special and General conditions stipulated in the Consent Order issued earlier and subject to the special conditions annexed.

This CONSENT is valid for the period ending **March 31, 2026**

  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
COIMBATORE SOUTH  
26/02/25

To  
Vice-President Admin.& H.R.D.,  
M/s.CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI,  
No.123/4, Sangothipalayam Road,  
Arasur Post,  
Coimbatore



## TAMILNADU POLLUTION CONTROL BOARD

Pin: 641407

**Copy to:**

1. The Commissioner, KINATHUKADAVU-Panchayat Union, Kinathukadavu Taluk, Coimbatore District .
2. Copy submitted to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai for favour of kind information.
3. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH for favour of kind information.
4. File

-----



## TAMILNADU POLLUTION CONTROL BOARD

### SPECIAL CONDITIONS

1. This consent to operate is valid for operating the facility for the manufacture of products (Col. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

| Sl. No.                | Description                                                                                                                                                                       | Quantity | Unit       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|
| <b>Product Details</b> |                                                                                                                                                                                   |          |            |
| 1.                     | Induction furnace – 1 No of Panel Board Capacity 4500KW with two crucibles each 6.0 T Capacity (Dual Track), Melting Capacity 36450 TPA and Total Saleable Iron Casting 29160 TPA | 2430     | Tons/Month |

2. This consent to operate is valid for operating the facility with the below mentioned emission/noise sources along with the control measures and/or stack. Any change in the emission source/control measures/change in stack height has to be brought to the notice of the Board and fresh consent/Amendment has to be obtained.



## TAMILNADU POLLUTION CONTROL BOARD

| <b>I Point source emission with stack :</b> |                                       |                                                                                                                |                                     |                                          |
|---------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
| Stack No.                                   | Point Emission Source                 | Air pollution Control measures                                                                                 | Stack height from Ground Level in m | Gaseous Discharge in Nm <sup>3</sup> /hr |
| 1                                           | Induction furnace – 6T (2 Nos)        | Individual suction hood with Fume extraction system attached to cyclone separator & Cassette Filter with Stack | 30.0                                |                                          |
| 2                                           | Shot Blasting – 12.5 T                | Cassette Filter with stack                                                                                     | 20.0                                |                                          |
| 3                                           | Thermal Sand reclamation – 5 T/hr     | Individual Cyclone Separator & Cassette Filter with Common stack                                               | 28.0                                |                                          |
| 3                                           | Mechanical Sand reclamation – 30 T/hr | Individual Cassette Filter with Common Stack                                                                   | 28.0                                |                                          |
| 3                                           | Shake Out                             | Individual Cassette Filter with Common Stack                                                                   | 28.0                                |                                          |
| 4                                           | Manual Shot blasting – 15 T           | Dust collector and Tubular bag filter with Stack                                                               | 5.2                                 |                                          |
| 5 & 6                                       | Paint booth                           | Activated Carbon filter with dual stacks (each)                                                                | 5.1                                 |                                          |
| 7                                           | DG Set 500 KVA                        | Acoustic enclosures with stack                                                                                 | 25.0                                |                                          |
| 8                                           | DG Set 2250 KVA                       | Acoustic enclosures with stack                                                                                 | 25.0                                |                                          |
| 9                                           | DG Set 2250 KVA                       | Acoustic enclosures with stack                                                                                 | 25.0                                |                                          |
| 0                                           | Electrical Heat treatment – 30 T      | Closed System                                                                                                  | 0                                   |                                          |
| <b>II Fugitive/Noise emission :</b>         |                                       |                                                                                                                |                                     |                                          |
| Sl. No.                                     | Fugitive or Noise Emission sources    | Type of emission                                                                                               | Control measures                    |                                          |
| 1.                                          | DG Set - 500 KVA & 2250 KVA (2 Nos.)  | Noise                                                                                                          | Acoustic enclosures                 |                                          |

3(a). The emission shall not contain constituents in excess of the tolerance limits as laid down hereunder :

| Sl. | Parameter | Unit | Tolerance limits | Stacks |
|-----|-----------|------|------------------|--------|
|-----|-----------|------|------------------|--------|

Annexure enclosed if applicable. :-

3.(b) The Ambient Air in the industrial plant area shall not contain constituents in excess of the tolerance limits prescribed below.



## TAMILNADU POLLUTION CONTROL BOARD

| Sl. No. | Pollutant                                                            | Time Weighted Average | Unit                                                 | Tolerance Limits                              |                                                         |
|---------|----------------------------------------------------------------------|-----------------------|------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------|
|         |                                                                      |                       |                                                      | Industrial, Residential, Rural and other area | Ecologically Sensitive Area (notified by Central Govt.) |
| 1.      | Sulphur Dioxide (SO <sub>2</sub> )                                   | Annual<br>24 hours    | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 50<br>80                                      | 20<br>80                                                |
| 2.      | Nitrogen Dioxide (NO <sub>2</sub> )                                  | Annual<br>24 hours    | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 40<br>80                                      | 30<br>80                                                |
| 3.      | Particulate Matter (Size Less than 10 micro M) or PM <sub>10</sub>   | Annual<br>24 hours    | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 60<br>100                                     | 60<br>100                                               |
| 4.      | Particulate Matter (Size Less than 2.5 micro M) or PM <sub>2.5</sub> | Annual<br>24 hours    | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 40<br>60                                      | 40<br>60                                                |
| 5.      | Ozone (O <sub>3</sub> )                                              | 8 Hours<br>1 Hour     | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 100<br>180                                    | 100<br>180                                              |
| Sl. No. | Pollutant                                                            | Time Weighted Average | Unit                                                 | Tolerance Limits                              |                                                         |
|         |                                                                      |                       |                                                      | Industrial, Residential, Rural and other area | Ecologically Sensitive Area (notified by Central Govt.) |
| 6.      | Lead (Pb)                                                            | Annual<br>24 hours    | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 0.5<br>1.0                                    | 0.5<br>1.0                                              |
| 7.      | Carbon Monoxide (CO)                                                 | 8 Hours<br>1 Hour     | miligram/m <sup>3</sup><br>miligram/m <sup>3</sup>   | 02<br>04                                      | 02<br>04                                                |
| 8.      | Ammonia (NH <sub>3</sub> )                                           | Annual<br>24 hours    | microgram/m <sup>3</sup><br>microgram/m <sup>3</sup> | 100<br>400                                    | 100<br>400                                              |
| 9.      | Benzene (C <sub>6</sub> H <sub>6</sub> )                             | Annual                | microgram/m <sup>3</sup>                             | 5                                             | 5                                                       |
| 10.     | Benzo(O) Pyrene (BaP) –particulate phase only                        | Annual                | nanogram/m <sup>3</sup>                              | 01                                            | 01                                                      |
| 11.     | Arsenic (As)                                                         | Annual                | nanogram/m <sup>3</sup>                              | 06                                            | 06                                                      |
| 12.     | Nickel (Ni)                                                          | Annual                | nanogram/m <sup>3</sup>                              | 20                                            | 20                                                      |

3(c) The Ambient Noise Level in the industrial plant area shall not exceed the limits prescribed below:

| Limits in L.eq.-dB(A) | Day Time | Night Time |
|-----------------------|----------|------------|
| Residential Area      | 55       | 45         |

- All units of the Air pollution control measures shall be operated efficiently and continuously so as to achieve the standards prescribed in Sl. No.3 above.
- The occupier shall not change or alter quality or quantity or the rate of emission or replace or alter the air pollution control equipment or change the raw material or manufacturing process resulting in change in quality and/or quantity of emissions without the previous written permission of the Board.
- The occupier shall maintain log book regarding the stack monitoring system or operation of the plant or any other particulars for each of the unit operations of air pollution control systems to reflect the working condition which shall be furnished for verification of the Board officials during inspection.
- The occupier shall at his own cost get the samples of emission/air/noise levels collected and analyzed by the TNPC Board Laboratory once in every 6 months/once in a year/periodically for the parameters as prescribed.



## TAMILNADU POLLUTION CONTROL BOARD

8. Any upset condition in any of the plants of the factory which is likely to result in increased emissions and result in violation of the standards mentioned in Sl.No.3 shall be reported to the Member Secretary / Joint Chief Environmental Engineer-Monitoring and the concerned District/Assistant Environmental Engineer of the Board by e-mail immediately and subsequently by Post with full details of such upset condition.
9. The occupier shall always comply and carryout the order/directions issued by the Board in this Consent Order and from time to time without any negligence. The occupier shall be liable for action as per provisions of the Act in case of non compliance of any order/directions issued.

### Special Additional Conditions:

The unit shall obtain No Objection Certificate (NOC) from the Tamil Nadu Bio Diversity Board /National Bio Diversity Authority if the unit is using any Biological resources or knowledge associated thereto as per the provisions of Biological Diversity Act 2002.

The industries shall take all efforts to use and popularize "Mission LiFE" logo and mascot which is available in TNPCB & MoEFCC website. They shall also request their employees to adopt "Mission LiFE" action points and document the same and furnish half yearly report to Board.

### Additional Conditions:

1. The unit shall not go for any expansion activity beyond 20000 sq.m. of build-up area without obtaining prior Environmental clearance from the SEIAA, Tamilnadu and consent for expansion of the Board.
2. The unit shall operate and maintain all the Air Pollution Control measures attached to the Induction Furnaces, Shot Blasting, Sand reclamation plant, Paint Booth, etc., efficiently and continuously so as to satisfy the AAQ/Emission/ANL standards prescribed by the Board.
3. The unit shall adhere to the Ambient Noise Level standards prescribed by the Board.
4. The unit shall install and maintain the Online Continuous Emission Monitoring System (OCEMS) to both the Stacks attached to two Induction Furnaces within a month period and connect the same to the Care Air Centre, TNPCB, Chennai immediately.
5. The unit shall continue to develop green belt within the premises covering 25% of the total area to attenuate air and noise pollution by planting tress saplings at the rate of 400 Nos. per Hectare.
6. In case of revision of consent fee by the Government, the proponent shall remit the difference in amount within one month from the date of notification. Failing to remit the consent fee, this consent order will be withdrawn without any notice and further action will be initiated against the proponent as per law.
7. The issue of this Consent shall not be construed as the Right to supersede or Overrule other Acts or Rules or Bylaws or Directions etc., issued by other Government Department / Statutory Body / Local Body /Organization etc., and the unit shall abide the same, as and when issued by the respective Authority.
8. Concealing the factual data or failure to comply with any of the conditions mentioned in the consent order may result in withdrawal of this Consent and attract legal actions under the provisions of Environment (Protection) Act, 1986 and Air (P&CP) Act' 1981.

  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
COIMBATORE SOUTH



## TAMILNADU POLLUTION CONTROL BOARD

### GENERAL CONDITIONS

1. The occupier shall make an application along with the prescribed consent fee for grant of renewal of consent at least 60 days before the date of expiry of this Consent Order along with all the required particulars ensuring that there is no change in production quantity and emission.
2. This Consent is given by the Board in consideration of the particulars given in the application. Any change or alteration or deviation made in actual practice from the particulars furnished, in the application will also be ground for review/variation/revocation of the Consent Order under Section 21 of the Act.
3. The conditions imposed shall continue in force until revoked under Section 21 of the Act.
4. After the issue of this order, all the 'Consent to Operate' orders issued previously under Air (Prevention and Control of Pollution) Act, 1981 as amended stands defunct.
5. The occupier shall maintain an Inspection Register in the factory so that the inspecting officer shall record the details of the observations and instructions issued to the unit at the time of inspection for adherence.
6. The occupier shall provide and maintain an alternate power supply along with separate energy meter for the Air Pollution Control measures sufficient to ensure continuous operation of all pollution control equipments to ensure compliance.
7. The occupier shall provide all facilities to the Board officials for collection of samples in and around the factory at any time.
8. The applicant shall display the flow diagram of the sources of emission and pollution control systems provided at the site.
9. The liquid effluent arising out of the operation of the air pollution control equipment shall also be treated in a manner and to the satisfaction of standards prescribed by the Board in accordance with the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended.
10. The air pollution control equipments, location of inspection chambers and sampling port holes shall be made easily accessible at all time.
11. In case of any episodal discharge of emission, the industry shall take immediate action to bring down the emission within the limits prescribed by the Board.
12. If applicable, the occupier has to comply with the provisions of Public Liability Insurance Act, 1991 to provide immediate relief in the event of any hazard to human beings, other living creatures/plants and properties while handling and storage of hazardous substances.
13. The issuance of this consent does not authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any natural watercourse or in Government Poramboke lands.
14. The issuance of this Consent does not convey any property right in either real personal property or any exclusive privileges, nor does it authorize any injury to private property or Government property or any invasion of personal rights nor any infringement of Central, State laws or regulation.
15. The occupier shall forth with keep the Board informed of any accident of unforeseen act or event of any poisonous, noxious or polluting matter or emissions are being discharged into stream or well or air as a result of such discharge, water or air is being polluted.
16. If due to any technological improvements or otherwise the Board is of opinion that all or any of the conditions referred to above requires variation (including the change of any treatment system, either in whole or in part) the Board shall, after giving the applicant an opportunity of being heard, vary all or any of such conditions and thereupon the applicant shall be bound to comply with the conditions as so varied.
17. In case there is any change in the constitution of the management, the occupier of the new management shall file fresh application under Air (Prevention and Control of Pollution) Act, 1981, as amended in Form-I alongwith relevant documents of change of management immediately and get the necessary amendment with renewal of consent order.
18. In case there is any change in the name of the company alone, the occupier shall inform the same with relevant documents immediately and get the necessary amendments for the change of name from the Board.



## TAMILNADU POLLUTION CONTROL BOARD

19. The occupier shall display this consent order granted to him in a prominent place for perusal of the inspecting Officers of this Board.

*Signature* 6/2/25  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
COIMBATORE SOUTH  
*24/2/25*



## **DIRECTORATE OF TOWN AND COUNTRY PLANNING**

### **Online Building Plan Application – Technical Concurrence**

Application Number :SWP/BPA/0105284/2024

Sir/ Madam,

**Subject:** Industrial Building – DTCP, Chennai - Coimbatore District– Kenathukadavu Taluk, Kodavadi village, S.F.Nos.77/1, 77/2;80/1A, 80/1B,2A,2B,2C,2D;93;96;97/3;99/1A Site area of 176000sq.m (As per patta) - FSI area of 33629.18sq.m – Technical Concurrence issued – Forwarded for further action – Regarding.

**Reference:**

1. Applicant. M/s.Craftsman Automation Limited, Represented by its Vice President - Admin & HRD,Thiru.R.Mohanakrishnan Online Application Reference No. SWP/BPA/0105284/2024, Dated: 10.02.2024.
2. Assistant Director/ Joint Director(i/c),Coimbatore District Town and country Planning office, Inspection Report of Online Application No.SWP/BPA/0105284/2024, Dated:27.02.2024.
3. G.O.No.86, Housing and Urban Development Department, Dated: 28.03.2012.
4. G.O.No.85, Housing and Urban Development Department, Dated: 16.05.2017.
5. G.O. No.1, Housing and Urban Development Department, Dated: 05.01.2021.
6. G.O.No.18, Department of Municipal Administration and Water Supply, Dated: 04.02.2019.
7. G.O.16 Department of Municipal Administration and Water Supply, Dated: 31.01.2020.
8. G.O.No.79, Housing and Urban Development Department, Dated:04.05.2017.
9. G.O.No.54, Housing and Urban Development Department, Dated: 12.03.2020.
10. Director of Town and Country Planning, Chennai circular Letter Roc No. 7486/2009/BA2, Dated: 16.04.2009.
11. Director of Town and Country Planning, Chennai circular Letter Roc No. 12201/2017/BA1, Dated: 22.09.2017.
12. Director of Town and Country Planning, Chennai circular Letter Roc No. 14227/2017/Splcell, Dated: 14.12.2017.
13. District Fire & Rescue Services, Coimbatore District, Fire NOC K.Dis. No:1380/E1/2024, Dated:05.02.2024.
14. Joint Director, Agriculture Department, Coimbatore District Noc letter No.E1/610/2024, Dated: 31.01.2024.
15. Tamil Nadu Pollution Control Board, Consent order no. 2301256341624,Dated:15/12/2023.Proceedings No.F.4099 CBS /OL/DEE/TNPCB/CBS/A/2023(Orange Category).

16. Tamil Nadu Pollution Control Board, Consent order no.  
2301156341624, Dated: 15/12/2023. Proceedings No.F.4099  
CBS /OL/DEE/TNPCB/CBS/W/2023(Orange Category).

-----X-----

### **Order**

1. With reference to the 1<sup>st</sup> Cited letter, the Applicant. M/s.Craftsman Automation Limited, Represented by its Vice President - Admin & HRD, Thiru.R.Mohanakrishnan has requested for the approval of industrial building at Coimbatore District, Kenathukadavu Taluk, Kodavadi village, S.F.Nos.77/1, 77/2;80/1A, 80/1B,2A, 2B, 2C,2D;93;96;97/3;99/1A with a Site area of 176000sq.m and with FSI area of 33629.18sq.m.

The Assistant Director / Joint Director (i/c) of Coimbatore District Town and Country Planning Office has recommended the proposal with a site inspection remarks. Based on the Assistant Director / Joint Director (i/c), recommendation, the applicant request has been accepted and the boundary of the site has been marked as “A1 to A37”.

The Technical Concurrence is issued under section 47 of Town and Country Planning Act, 1971 for the above proposal and numbered as **B.P/DTCP No: 265 /2024**.

2. The area statement for the Proposed Industrial building (Orange Category) is as below.

Area of Site- 176000sq.m

#### **Proposed Industrial Building Area Statement in Sqm**

| S.NO     | Description                                                | FSI (Sqm)       | Non FSI Area (Sqm) | Total Build up Area (Sqm) |
|----------|------------------------------------------------------------|-----------------|--------------------|---------------------------|
| <b>1</b> | <b>Block-1 (Foundry and Production of Casting in Iron)</b> |                 |                    |                           |
|          | Ground Floor                                               | 31284.50        | -                  | 31284.50                  |
| <b>2</b> | <b>Block-2 (Furnace Unit)</b>                              |                 |                    |                           |
|          | Ground Floor                                               | 2092.70         | -                  | 2092.70                   |
| <b>3</b> | <b>Block-3 (Power and Panel Room)</b>                      |                 |                    |                           |
|          | Ground Floor                                               | 251.98          | -                  | 251.98                    |
|          | <b>Total</b>                                               | <b>33629.18</b> |                    | <b>33629.18</b>           |

**FSI Area : 33629.18Sqm**

The Technical Concurrence issued with the following Special and General Conditions: -

### **Special Conditions**

1. The OSR-1(ear marked as 1 to 4) area 1882.34sqm, OSR-2(ear marked as 5 to 10) area 4274.34sqm, OSR-3(ear marked as 11 to 15) area 4165.97sqm, OSR-4 (ear marked as 16 to 20) area 3702.78sqm and OSR-5 (ear marked as 21 to 24) 3957.99Sqm, total OSR 17983.42Sqm shown in the site plan should be retained as Open Space Reservation as per TNCDBR, 2019 Rule No.41(1)(i).
2. It is responsibility of the builders to ensure safe bearing capacity of the soil and adequacy of the foundation.
3. Conditions stipulated in the No Objection certificates obtained from the central and state Government Departments must be fulfilled scrupulously.
4. Planning Permission is issued in accordance with the provisions of the Town and Country Planning Act and the rules made there under and does not cover the structural stability aspects including the safety during the construction which are covered under the Building Rules under the Local Bodies Act. Planning Permission is issued subject to the condition that the applicant/developer and also the architect/Licensed Surveyors and the Structural Engineer associated with the development shall ensure that developments shall be structurally sound and adequate safety measures are taken during the process of construction.
5. Applicant should obtain consent from Tamil Nadu Pollution control Board Under Section 25 of the Water Act 1974 for discharge of sewage.
6. The Directorate of Town and Country Planning Department has not legally certified the title to the ownership by granting technical clearance and planning permission. Initial verification of the documents (lease deed, sale deed, gift deed, etc) submitted by the applicant's is being verified for the applicant's entitlement to develop in the site.  
  
If any person wishes to purchase the property must individually ascertain the ownership of the applicant's property. Also, if anyone else claims rights over the property, they can settle it before the appropriate competent court. The Directorate of Town and Country Planning Department is not the right organization to decide on this.
7. The provisions in the G.O (Ms) No.17, Housing and Urban Development (UD4(3)) Department dated: 05.02.2016 relating to installation and use of solar energy system should be followed.

### **General Conditions**

1. Solar water heating system to be provided to the proposed Industrial building.  
Solar photo voltaic panels to be erected at the 1/3 portion of total terrace area.
2. Parking area to be utilized only for parking purpose mentioned as per approved drawing.
3. No additions / alterations to be made without necessary permission of this office.

In case any alterations required proper revised approval should be obtained.

4. Rain water harvesting should be provided as per the directions mentioned in G.O.18 & G.O.16 Department of Municipal Administration and Water Supply,Dated:04.02.2019 & 31.01.2020.
5. Applicant should arrange to dispose sewage by vehicle at his own cost and necessary drinking water provision to be provided at applicant's own cost.
6. Mosquito netting to be provided at OHT and well.
7. Fire rescue equipment should be provided as per Rules.
8. As per GO No 341 MAWS dated 03.11.2004 "U" Trap in the septic tank design to be provided.
9. Fly Ash bricks and Materials must be used for construction.
10. As per G.O. No. 18, Department of Municipal Administration and Water Supply, dated.04.02.2019 a display board of size 60cm x 120 cm to be erected which shows site details, building details and professional's details at the place of construction.
11. As per references Cited Government orders & circulars Centage charges Infrastructure and amenities charges, Shelter fund and other relevant charges to be collected and further action shall be taken by the District officer.

Director of Town and Country Planning

**To,**

The Assistant Director / Joint Director (i/c),  
District Town and Country planning office,  
Coimbatore District.



**File No: 12372**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Issued by the State Environment Impact Assessment**  
**Authority(SEIAA), TAMIL NADU)**

\*\*\*



Dated 13/08/2025



To,

Thiru.R.Mohanakrishnan  
M/s. Craftsman Automation Limited  
123/4, Sangothipalayam Road, Arasur Post, Coimbatore, TAMIL NADU- 641407  
mohan@craftsmanautomation.com

**Subject:** Grant of EC under the provision of the EIA Notification 2006, as amended -regarding.

**Sir/Madam,**

**Sub:** SEIAA-TN – Proposed expansion of foundry unit at S.F. No. 77/1, 77/2, 80/1A, 80/1B, 2A, 2B, 2C, 2D, 93, 96, 97/3, 99/1A, Kothavadi village, Kinathukadavu Taluk, Coimbatore district., Tamil Nadu by M/s. Craftsman Automation Limited (Unit – I Kothavadi)– Category - "B" and Schedule 3(a) – “Metallurgical Industries (Ferrous & Non-Ferrous)” under the EIA Notification, 2006 as amended – Environmental Clearance Issued – Regarding.

**Ref:** 1. Online Proposal No. SIA/TN/IND1/542213/2025, dated: 27/06/2025  
2. Minutes of the 593rd meeting of SEAC held on 17.07.2025  
3. Minutes of the 865th meeting of SEIAA held on 05.08.2025

2. The particulars of the proposal are as below :

|                                            |                                                                                                                                                                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (i) EC Identification No.                  | EC25C1011TN5592051N                                                                                                                                                                                                       |
| (ii) File No.                              | 12372                                                                                                                                                                                                                     |
| (iii) Clearance Type                       | EC                                                                                                                                                                                                                        |
| (iv) Category                              | B2                                                                                                                                                                                                                        |
| (v) Project/Activity Included Schedule No. | 3(a) Metallurgical Industries (ferrous and non ferrous)<br>Proposed expansion of foundry unit located at Kothavadi village, Kinathukadavu Taluk, Coimbatore district by Craftsman Automation Limited (Unit – I Kothavadi) |
| (vii) Name of Project                      | craftsman automation limited                                                                                                                                                                                              |
| (viii) Name of Company/Organization        | COIMBATORE, TAMIL NADU                                                                                                                                                                                                    |
| (ix) Location of Project (District, State) | SEIAA                                                                                                                                                                                                                     |
| (x) Issuing Authority                      |                                                                                                                                                                                                                           |

|                                            |    |
|--------------------------------------------|----|
| (xi) Applicability of General Conditions   | no |
| (xii) Applicability of Specific Conditions | no |

1. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A and B) EMP were submitted to the SEIAA-TN for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.

2. The above-mentioned proposal has been considered by (SEIAA) in the meeting held on 05.08.2025. The minutes of the meeting and all the documents submitted are available on PARIVESH portal which can be accessed by scanning the QR Code above.

3. The SEAC, based on the information viz: Form-2(Part A and B) EMP report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and compliance thereto furnished by the Project Proponent, recommended the by the SEAC for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to compliance of Specific and Standard EC conditions as given in this letter.

4. The SEIAA, has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the State Expert Appraisal Committee hereby accords Environment Clearance to the instant proposal of **M/s. Craftsman Automation Limited** under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1)

5. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary. The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

6. The Project Proponent is under obligation to implement commitments made in the Environment Management Plan which forms part of this EC.

7. The PP is under obligation to implement commitments made in the Environment Management Plan, which form part of this EC. Validity of EC is for a period of 7 years from the date of issue of EC. In case the project proponent fails to complete the construction/proposed activities within the EC validity date, application for EC validity extension shall be submitted to the regulatory authority as per the provision contained in the Para 9.0 of EIA notification, 2006 and its amendment

**8. Salient features of the proposal are as follows:**

| S. No. | Salient Features of the Proposal |                                                                                                                                                                                                                                                                   |                     |                            |
|--------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| 1      | Name of the Project              | Proposed expansion of foundry unit located at Kothavadi village, Kinathukadavu Taluk, Coimbatore district by Craftsman Automation Limited (Unit – I Kothavadi).                                                                                                   |                     |                            |
| 2      | Location                         | S.F. No. 77/1, 77/2, 80/1A, 80/1B, 2A, 2B, 2C, 2D, 93, 96, 97/3, 99/1A, Kothavadi Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.<br><u>Coordinates:</u><br>Latitude - 10°48'7.98"N to 10°47'59.51"N<br>Longitude - 77° 2'50.66"E to 77° 2'49.16"E |                     |                            |
| 3      | Type of project                  | Schedule 3(a) – Metallurgical Industries (Ferrous & Non-Ferrous) as per EIA Notification 2006, as amended                                                                                                                                                         |                     |                            |
| 4      | Total area                       | Total land area – 10.236 Hectares to 17.6 Hectares                                                                                                                                                                                                                |                     |                            |
|        |                                  | Description                                                                                                                                                                                                                                                       | Existing (Hectares) | After Expansion (Hectares) |
|        |                                  | Built-up area                                                                                                                                                                                                                                                     | 1.860               | 3.363                      |
|        |                                  | Internal Road area                                                                                                                                                                                                                                                | 0.440               | 1.400                      |
|        |                                  | Parking area                                                                                                                                                                                                                                                      | 0.330               | 0.560                      |
|        |                                  | Green belt area                                                                                                                                                                                                                                                   | 3.410               | 6.206                      |
|        |                                  | Vacant area                                                                                                                                                                                                                                                       | 4.196               | 6.071                      |
|        |                                  | Total                                                                                                                                                                                                                                                             | 10.236              | 17.600                     |
|        |                                  |                                                                                                                                                                                                                                                                   |                     |                            |

|    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                              |
|----|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|
| 5  | Cost of Project                         | <b>Existing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Proposed</b>       | <b>After Expansion</b>       |
|    |                                         | Rs. 12767 Lakhs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rs. 25010 Lakhs       | Rs. 37777 Lakhs              |
| 6  | Brief description of the project        | The project involves the enhancement of Melting capacity from 36,450 TPA to 1,15,200 TPA to increase the production of Ferrous Castings from 29,160 TPA to 86,400 TPA.                                                                                                                                                                                                                                                                                                                                                                           |                       |                              |
| 7  | Raw materials                           | <b>Raw materials</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Existing (TPA)</b> | <b>After Expansion (TPA)</b> |
|    |                                         | Pig Iron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10,935                | 31,260                       |
|    |                                         | Steel scrap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10,562.4              | 29,650                       |
|    |                                         | CI Borings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13,980.6              | 22,890                       |
|    |                                         | Runner, Riser & Rejects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7,290                 | 28,300                       |
|    |                                         | Ferro Manganese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 372.6                 | 1,200                        |
|    |                                         | Ferro Magnesium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 186.24                | 600                          |
|    |                                         | Ferro Silicon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 226.8                 | 700                          |
|    |                                         | Inoculants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 186.24                | 600                          |
|    |                                         | Silica sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1,27,572              | 4,03,127                     |
|    |                                         | Resin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1,78,596              | 6,048                        |
|    |                                         | Catalyst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 71.4                  | 2,420                        |
|    |                                         | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>1,73,169</b>       | <b>5,26,795</b>              |
|    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                              |
| 8  | ToR details                             | Not Applicable as it is B2 Category project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                              |
| 9  | EIA report submitted on                 | Not Applicable as it is B2 Category project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |                              |
| 10 | a. Water Requirement                    | <b>Water Consumption</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Existing</b>       | <b>After Expansion</b>       |
|    |                                         | a. Cooling Tower make-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 66 KLD                | 134 KLD                      |
|    |                                         | b. Domestic uses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15 KLD                | 30 KLD                       |
|    |                                         | c. Wet scrubber make-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                     | 1 KLD                        |
|    |                                         | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>81 KLD</b>         | <b>165 KLD</b>               |
|    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                              |
|    | b. Source of water                      | Kinathukadavu Water Project LLP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                              |
| 11 | Sewage/Effluent generation, Treatment & | <b>Waste Water</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Existing</b>       | <b>After Expansion</b>       |
|    |                                         | <b>Sewage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12 KLD                | 25 KLD                       |
|    |                                         | <b>Effluent</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                     | 1 KLD                        |
|    |                                         | <p>Existing Sewage Treatment Plant of capacity 100 KLD is available as it has adequate capacity.</p> <ol style="list-style-type: none"> <li>1. Oil Trap &amp; Screen Chamber</li> <li>2. Collection Tank</li> <li>3. Aeration cum MBR Tank</li> <li>4. UV System</li> <li>5. Treated Water Collection Tank</li> <li>6. Sludge Drying Beds</li> </ol> <p>Proposed Effluent Treatment Plant of Capacity of 2 KLD.</p> <ol style="list-style-type: none"> <li>1. Screen Chamber</li> <li>2. Collection Tank</li> <li>3. Flash Mixer Tank</li> </ol> |                       |                              |

|    |                                                                                                   |                                                                                                                                                                                                                                                       |                                                                         |                  |                                   |                                                                  |
|----|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------|-----------------------------------|------------------------------------------------------------------|
|    |                                                                                                   | 4. Flocculator Tank<br>5. Primary Settling Tank<br>6. Aeration Tank<br>7. Secondary Settling Tank<br>8. Filter Feed Tank<br>9. Pressure Sand Filter<br>10. Activated Carbon Filter<br>11. UV Disinfection system<br>12. Treated Water Collection Tank |                                                                         |                  |                                   |                                                                  |
| 12 | Mode of disposal of sewage & effluent                                                             | Both treated sewage & effluent is used for gardening in the greenbelt area.                                                                                                                                                                           |                                                                         |                  |                                   |                                                                  |
| 13 | Quantity of solid waste generated per day (in kgs), mode of treatment and disposal of solid waste | S. No.                                                                                                                                                                                                                                                | Source                                                                  | Quantity (TPA)   |                                   | Disposal Method                                                  |
|    |                                                                                                   |                                                                                                                                                                                                                                                       |                                                                         | Before Expansion | After Expansion                   |                                                                  |
|    |                                                                                                   | 1                                                                                                                                                                                                                                                     | Runners, Raisers & Rejects                                              | 7290             | 28300                             | Recycled in Process                                              |
|    |                                                                                                   | 2                                                                                                                                                                                                                                                     | Furnace Slag                                                            | 186              | 500                               | Disposed to Cement plant / Road laying through local contractors |
|    |                                                                                                   | 3                                                                                                                                                                                                                                                     | Waste Sand                                                              | 127575           | 387002                            | Reused in the process after reclamation                          |
|    |                                                                                                   | 4                                                                                                                                                                                                                                                     | Filter Dust                                                             | 5103             | 16125                             | Authorized pre-processors                                        |
|    |                                                                                                   | 5                                                                                                                                                                                                                                                     | STP Sludge (kg/day)                                                     | 1.2              | 2.5                               | Manure in green belt                                             |
| 14 | Hazardous waste management                                                                        | S. No.                                                                                                                                                                                                                                                | Source                                                                  | Quantity (TPA)   |                                   | Disposal Method                                                  |
|    |                                                                                                   |                                                                                                                                                                                                                                                       |                                                                         | Before Expansion | After Expansion                   |                                                                  |
|    |                                                                                                   | 1                                                                                                                                                                                                                                                     | Used / Spent Oil (5.1)                                                  | 5                | 7                                 | Authorized HW Recyclers                                          |
|    |                                                                                                   | 2                                                                                                                                                                                                                                                     | Wastes / residues containing Oil (5.2)                                  | 0.2              | 1                                 | Authorized HW pre-processors                                     |
|    |                                                                                                   | 3                                                                                                                                                                                                                                                     | Empty barrels / containers contaminated with hazardous chemicals (33.1) | 200              | 300                               | Authorized HW Recyclers                                          |
|    |                                                                                                   | 4                                                                                                                                                                                                                                                     | Chemical sludge from waste water treatment (ETP Sludge) (35.3)          | -                | 0.5                               | Authorized HW pre-processing facility                            |
| 15 | Power requirement                                                                                 | Existing                                                                                                                                                                                                                                              |                                                                         | Proposed         |                                   | After Expansion                                                  |
|    |                                                                                                   | 4,980 KVA                                                                                                                                                                                                                                             |                                                                         | 7,020 KVA        |                                   | 12,000 KVA                                                       |
| 16 | APC measures                                                                                      | Existing:                                                                                                                                                                                                                                             |                                                                         |                  |                                   |                                                                  |
|    |                                                                                                   | Stack No.                                                                                                                                                                                                                                             | Source of Emission                                                      |                  | Details of APC Measures           |                                                                  |
|    |                                                                                                   | 1                                                                                                                                                                                                                                                     | Induction Furnace 1 – 6 T (2 Nos)                                       |                  | Individual suction hood with Fume |                                                                  |

|                    |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                | extraction system attached to cyclone separator & Cassette Filter with Stack                                   |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|--------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|------|-----|-------------|-----|-------|-----|----------|-----|-------------|-----|-------------|-----|-------------|-----|------------|-----|--------------------|-----|
|                    |                                                | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Shot Blasting Machine 1 – 12.5 T               | Cassette Filter with stack                                                                                     |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Thermal Sand Reclamation Plant 1 – 5T/hr       | Individual Cyclone Separator & Cassette Filter with Common stack                                               |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mechanical Sand Reclamation Plant 1 – 30 T/hr  | Individual Cassette Filter with Common stack                                                                   |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Shake Out Machine 1 – 30T/Hr                   | Individual Cassette Filter with Common stack                                                                   |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Manual Shot Blasting Machine – 15 T            | Dust collector and Tubular bag filter with Stack                                                               |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 5 & 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Paint Booth 1 - 15 T                           | Activated Carbon filter with dual stacks (each)                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DG Set 1 – 500 KVA                             | Acoustic enclosure with Stack                                                                                  |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DG Set 2 – 2250 KVA                            | Acoustic enclosure with Stack                                                                                  |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DG Set 3 – 2250 KVA                            | Acoustic enclosure with Stack                                                                                  |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | <b>Proposed:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | <b>Stack No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Source of Emission</b>                      | <b>Details of APC Measures</b>                                                                                 |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Induction Furnace 2 – 8 T (2 Nos)              | Individual suction hood with Fume extraction system attached to cyclone separator & Cassette Filter with Stack |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Core Shooter – 900 Lts                         | Centralized Wet Scrubbers with Common Stack                                                                    |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Core Shooter – 900 Lts                         |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Shot Blasting Machine 2– 12.5 T                | Bag filter with stack                                                                                          |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Shake Out Machine 2 – 30 T/hr                  | Individual Bag filter with Common Stack                                                                        |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Thermal Sand Reclamation Plant 2 – 5 T/hr      | Cyclone, Individual Bag filter with Common Stack                                                               |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Thermal Sand Reclamation Plant 3 – 5 T/hr      | Cyclone, Individual Bag filter with Common Stack                                                               |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
|                    |                                                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Mechanical Sand Reclamation Plant 2 – 30 T/hr. | Cyclone, Individual Bag filter with Common Stack                                                               |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| 5                  | Mechanical Sand Reclamation Plant 3 – 30 T/hr. | Cyclone, Individual Bag filter with Common Stack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| 17                 | Details of man power                           | 300 Employees (Existing) & 500 Employees (After Expansion)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| 18                 | Details of green belt                          | 6.206 Hectares – 35.26% of Total Area<br>There are about 3205 No. of trees in existing and it is proposed to plant about 2700 No. of trees to improve the green belt.<br><b>Proposed Trees:</b> <table><tr><th>Categories</th><th>Number of Trees</th></tr><tr><td>Neem</td><td>370</td></tr><tr><td>Pungam Tree</td><td>300</td></tr><tr><td>Naval</td><td>120</td></tr><tr><td>Fig tree</td><td>150</td></tr><tr><td>Arjuna tree</td><td>150</td></tr><tr><td>Orchid Tree</td><td>180</td></tr><tr><td>Peepal tree</td><td>140</td></tr><tr><td>Poomaruthu</td><td>160</td></tr><tr><td>Magnolia hodgsonii</td><td>170</td></tr></table> |                                                | Categories                                                                                                     | Number of Trees | Neem | 370 | Pungam Tree | 300 | Naval | 120 | Fig tree | 150 | Arjuna tree | 150 | Orchid Tree | 180 | Peepal tree | 140 | Poomaruthu | 160 | Magnolia hodgsonii | 170 |
| Categories         | Number of Trees                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Neem               | 370                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Pungam Tree        | 300                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Naval              | 120                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Fig tree           | 150                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Arjuna tree        | 150                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Orchid Tree        | 180                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Peepal tree        | 140                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Poomaruthu         | 160                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |
| Magnolia hodgsonii | 170                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |                                                                                                                |                 |      |     |             |     |       |     |          |     |             |     |             |     |             |     |            |     |                    |     |

|    |                                   |                                                                                                                                                              |                        |
|----|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|    |                                   | Sappanwood                                                                                                                                                   | 150                    |
|    |                                   | Athi                                                                                                                                                         | 150                    |
|    |                                   | Vilvam                                                                                                                                                       | 150                    |
|    |                                   | Mantharai                                                                                                                                                    | 210                    |
|    |                                   | Magizham                                                                                                                                                     | 150                    |
|    |                                   | Marutha                                                                                                                                                      | 150                    |
|    |                                   | <b>Total</b>                                                                                                                                                 | <b>2700</b>            |
| 19 | Provision of rainwater harvesting | Percolation Pits – 40 Nos.<br>Sump – 600 M <sup>3</sup>                                                                                                      |                        |
| 20 | EMP Cost (Rs.)                    | Capital Investment – Rs. 430 Lakhs<br>Annual Operating Cost – Rs. 150 Lakhs                                                                                  |                        |
| 21 | CER Activity                      | <b>Activity</b>                                                                                                                                              | <b>Amount in Lakhs</b> |
|    |                                   | Environmental/Social Welfare/Eco Restoration activities in consultation with District Collector, Coimbatore & Commissioner, Coimbatore Municipal Corporation | Rs. 250 Lakhs          |

### 9. General Instructions:

(i) The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of SEIAA website where it is displayed.

(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 must display the same for 30 days from the date of receipt.

(iii) The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing 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.

(iv) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

(v) 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.

The Regional Office of this SEIAA 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.

(vi) 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.

10. This issue with an approval of the Competent Authority. For information on deliberations, refer to the minutes of SEAC and SEIAA available in the PARIVESH Portal.

### Copy To

1. The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. The Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34
5. Monitoring Cell, I A Division, Ministry of Environment & Forests,

**Specific EC Conditions for (Metallurgical Industries (Ferrous And Non Ferrous))**

**1. Seac Conditions - Site Specific**

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1   | <p><b>Major Conditions:</b></p> <ol style="list-style-type: none"> <li>1. The PP shall recycle the treated effluent from Effluent Treatment Plant (ETP) in the cooling process.</li> </ol> <p><b>General Conditions:</b></p> <ol style="list-style-type: none"> <li>1. The PP shall conduct an energy efficiency Audit of the factory periodically through an accredited BEE consultant once in 2 years and submit the same along with an Action Plan to SEIAA &amp; TNPCB.</li> <li>2. The PP shall replace the worn out/damaged APC measures before obtaining CTE (Expansion) from TNPCB.</li> <li>3. The PP shall adhere the procedures during Charging and operation of Melting for better and efficient operation of induction furnaces as mentioned in Comprehensive Industry Document on Electric Arc &amp; Induction Furnace issued by CPCB.</li> <li>4. The generated sewage shall be treated through STP and treated water shall be utilized for green belt development.</li> <li>5. The proponent shall continuously operate the sewage treatment plant so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB.</li> <li>6. All the effluents should be treated and reused for dust suppression/green belt development. No effluent should be discharged and 'zero' discharge should be adopted.</li> <li>7. No untreated effluent shall be recycled/reused for the process.</li> <li>8. All the roads shall be tarred and water sprinkling shall be ensured to control dust emissions from all the vulnerable sources like raw material handling and storage areas. All the material transfer points, discharge points and raw material storage area shall be completely covered. Dust extraction system shall be provided to storage, transfer points and material handling areas. Monitoring of fugitive emission in the work zone environment shall be carried out regularly as per the CPCB guidelines.</li> <li>9. The proponent shall provide, operate and maintain the air pollution control measures to all the furnaces and process emissions and utility emissions so as to achieve the air emission standards prescribed by the CPCB/MoEF&amp;CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.</li> <li>10. All the solid wastes like slag and SEP residue shall be stored separately at designated place only. Solar Evaporation Pan residue shall be disposed off in accordance with the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016, as amended.</li> <li>11. Proper housekeeping shall be ensured and all the raw materials and products shall be stored at designated places.</li> <li>12. The Project proponent shall provide adequate safety and ventilation arrangements in the furnace area.</li> <li>13. A separate Cell with adequate technically competent staff should be appointed to operate the Environmental Control measures, who should report directly to the top Executive of the plant premises.</li> <li>14. Ambient Air Quality Monitoring (AAQM) stations shall be set up as per statutory requirement. The locations of ambient air quality monitoring stations shall be decided in consultation with the Tamil Nadu Pollution Control Board and it shall be ensured that maximum numbers of stations to</li> </ol> |

| S. No                                                                                                                                                        | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                 |                                                                                                                                                              |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                                                                                                                                              | <p>be installed in the up wind direction and same shall be connected to CARE AIR centre in TNPCB for online monitoring.</p> <p>15. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise Levels shall confirm to the standards prescribed CPCB/MoEF&amp;CC.</p> <p>16. The Proponent shall provide and maintain the green belt at least 33 % area as per the CPCB Guidelines and the proponent shall develop more Green belt continuously.</p> <p>17. The Proponent shall furnish an undertaking that they will abide by the conditions by the conditions / recommendations mentioned in the EMP report furnished by them.</p> <p>18. As agreed by the project proponent, the CER cost is Rs. 250 lakhs and the amount shall be spent for the following activities within 1 year from the date of issue of EC.</p> <table border="1"> <thead> <tr> <th>Activity</th><th>Amount in Lakhs</th></tr> </thead> <tbody> <tr> <td>Environmental/Social Welfare/Eco Restoration activities in consultation with District Collector, Coimbatore &amp; Commissioner, Coimbatore Municipal Corporation</td><td>Rs. 250 Lakhs</td></tr> </tbody> </table> | Activity | Amount in Lakhs | Environmental/Social Welfare/Eco Restoration activities in consultation with District Collector, Coimbatore & Commissioner, Coimbatore Municipal Corporation | Rs. 250 Lakhs |
| Activity                                                                                                                                                     | Amount in Lakhs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                 |                                                                                                                                                              |               |
| Environmental/Social Welfare/Eco Restoration activities in consultation with District Collector, Coimbatore & Commissioner, Coimbatore Municipal Corporation | Rs. 250 Lakhs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                 |                                                                                                                                                              |               |

## 2. Seiaa Specific Conditions:

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1   | <p>i) The PP should strictly adhere to the management of sewage, effluent hazardous and non-hazardous waste as proposed.</p> <p>ii) The PP shall ensure that workers have appropriate safety equipment, and the site also has safety protocols for handling hazardous chemicals and first-aid facilities.</p> <p>iii) The PP shall ensure that periodic safety audits are conducted to ensure compliance with workplace safety standards, including the safe handling and storage of chemicals.</p> <p>iv) The PP shall ensure that workers are trained in safety practices, including the handling of toxic or flammable substances in emergencies.</p> <p>v) The PP shall ensure that the necessary licenses for manufacturing, handling, and storage of chemicals are obtained from regulatory bodies.</p> <p>vi) The PP shall adopt strategies to reduce water consumption and improve water efficiency.</p> <p>vii) The PP shall ensure that fire alarms, fire extinguishers, and fire exit routes are in place, and that complete fire safety control measures are implemented.</p> <p>viii) The PP shall ensure the maintenance of records with respect to chemical purchases, production data, waste disposal, safety inspections, and employee training.</p> <p>ix) The PP shall ensure that an emergency response plan is followed to deal with chemical spills, leaks, and other industrial accidents.</p> <p>x) The PP shall ensure the provision of essential welfare facilities for workers, such as clean drinking water, sanitation, and medical facilities.</p> <p>xi) The PP is legally bound to compensate for any damages arising from workplace accidents, chemical spills, or Environmental damage.</p> <p>xii) As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the Environmental conditions prescribed in the prior Environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login. A copy of the half yearly compliance report should be mailed to envcompseiaatn@gmail.com.</p> <p>xiii) The plantation of saplings shall be carried out in the earmarked greenbelt area as a part of the tree plantation campaign “Ek Ped Ma Ke Naam” and the details of the same shall be uploaded in the MeriLiFE Portal (<a href="https://merilife.nic.in">https://merilife.nic.in</a>).</p> |

**1. Statutory Compliance**

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1   | The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project. |

**2. Air Quality Monitoring And Preservation**

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1   | The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04/06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous and their no's.) |
| 2.2   | The project proponent shall 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.                                                                                                                                                                                                                                                    |
| 2.3   | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.4   | Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2.5   | Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2.6   | The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2.7   | Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2.8   | Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.9   | Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2.10  | The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2.11  | The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2.12  | Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.13  | Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2.14  | Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.15  | The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere. |
| 2.16  | Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2.17  | Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2.18  | The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.19  | Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.                                                                                                                                                                                            |

### 3. Air Quality Monitoring And Preservation In Case Of Ferro Alloy Plants

| S. No | EC Conditions                                                                                                       |
|-------|---------------------------------------------------------------------------------------------------------------------|
| 3.1   | Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.                                             |
| 3.2   | The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process. |

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.3   | The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3.4   | Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m <sup>3</sup> for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants. (in case of Silico Manganese and Ferro Silicon alloy steel) |
| 3.5   | No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### 4. Air Quality Monitoring And Preservation In Case Of Aluminium Smelter / Aluminium Refinery

| S. No | EC Conditions                                                                                                                                                                                    |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.1   | Adopt measures to recover fluoride gas from electrolytic cells and recycle the same in the process.                                                                                              |
| 4.2   | Practice use of low-sulphur tars for baking anodes                                                                                                                                               |
| 4.3   | Adopt dry scrubbing combined with incineration in order to control emissions of tar and volatile organic compounds (VOCs). The waste heat shall be recovered from the flue gases of incinerator. |
| 4.4   | Make efforts to increase the life of pot lining through better construction and operating techniques.                                                                                            |
| 4.5   | Recycle alumina dust collected in ESPs installed in calciner.                                                                                                                                    |
| 4.6   | Design the pot roofs with louvers and roof ventilators                                                                                                                                           |

#### 5. Air Quality Monitoring And Preservation In Case Of Di Pipe

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                            |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1   | Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm <sup>3</sup> . f. ETP with recycling facility shall be included. |

#### 6. Air Quality Monitoring And Preservation In Case Of Bof

| S. No | EC Conditions                                       |
|-------|-----------------------------------------------------|
| 6.1   | Basic Oxygen Furnace (BOF) gas shall be cleaned dry |

#### 7. Water Quality Monitoring And Preservation

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1   | The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. |
| 7.2   | 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.                                                                                                                            |
| 7.3   | Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.                                                                                                                                                                                                                                                                                                                    |
| 7.4   | 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.                                                                                                                                                                                                                                                |
| 7.5   | Tyre washing facilities shall be provided at the entrance of the plant gates.                                                                                                                                                                                                                                                                                                                                                      |
| 7.6   | Water meters shall be provided at the inlet to all unit processes in the steel plants.                                                                                                                                                                                                                                                                                                                                             |
| 7.7   | The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.                                                                                                                                                                                                                                             |
| 7.8   | The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.                                                                                         |
| 7.9   | All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.                                                                                                                                              |
| 7.10  | Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.                                                                                                                                                                                                                                                                                                       |

#### 8. Water Quality Monitoring And Preservation In Case Of Rolling Mills

| S. No | EC Conditions                                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.1   | The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time. (in case of rolling mills) |
| 8.2   | Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. (in case of cold rolling mills)    |

#### 9. Water Quality Monitoring And Preservation In Case Of Alluminium Shelter

| S. No | EC Conditions                                                                                                       |
|-------|---------------------------------------------------------------------------------------------------------------------|
| 9.1   | Reduce water consumption in bauxite beneficiation and alumina refinery by concentrating the solids in the tailings. |

#### 10. Noise Monitoring And Prevention

| S. No | EC Conditions                                                                                                                                                                                                                                                      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.1  | Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report. |
| 10.2  | The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.                                                                                                          |

#### 11. Energy Conservation Measures

| S. No | EC Conditions                                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11.1  | Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.                                                               |
| 11.2  | Restrict Gas flaring to < 1%.                                                                                                                                                      |
| 11.3  | Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; |
| 11.4  | Provide LED lights in their offices and residential areas.                                                                                                                         |

#### 12. Energy Conservation Measures In Case Of Reheating Furnace

| S. No | EC Conditions                                                                                                                           |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 12.1  | Ensure installation of regenerative/recuperative type burners on all reheating furnaces.                                                |
| 12.2  | The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces. |
| 12.3  | Practice hot charging of slabs and billets/blooms as far as possible.                                                                   |
| 12.4  | Ensure installation of regenerative type burners on all reheating furnaces                                                              |

#### 13. Energy Conservation Measures In Case Of Blast Furnace

| S. No | EC Conditions                                                                                                                                                                               |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1  | Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility. |

#### 14. Energy Conservation Measures In Case Of Dri Kilns (Sponge Iron)

| S. No | EC Conditions                                                                                                                                                         |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1  | The project proponent shall provide waste heat recovery system on the DRI Kilns.                                                                                      |
| 14.2  | The dolochar generated shall be used for power generation.                                                                                                            |
| 14.3  | Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns. |
| 14.4  | The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.                                                                   |

#### 15. Waste Management

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.1  | Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15.2  | Kitchen waste shall be composted or converted to biogas for further use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 15.3  | Used refractories shall be recycled as far as possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 15.4  | 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 shall be submitted to the Ministry's Regional Office.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 15.5  | The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents. |
| 15.6  | A proper action plan must be implemented to dispose of the electronic waste generated in the industry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 15.7  | Solid waste utilization: a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible. c. Used refractories shall be recycled as far as possible.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 16. Waste Management In Case Of Sinter Plant

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                       |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.1  | SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant. |
| 16.2  | Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.                                                                                                                                                                                                                                                           |
| 16.3  | Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.                                                                                                                                                                                                                                                                 |

#### 17. Waste Management In Case Of Aluminium Smelter/ Aluminium Refinery

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17.1  | A plan for 100 % utilisation of red mud generated shall be implemented. Under the Plan, MOU with shall be signed with potential buyers including cement companies for supply of red mud.                                                                                                                                                                                                                                                                                      |
| 17.2  | The red mud generated from the project shall be stored in the red mud pond lined with impervious clay prior to use to prevent leakage, designed as per the CPCB guidelines with proper leachate collection system. Ground water shall be monitored regularly all around the red mud disposal area and report submitted to the Regional Office of the Ministry. Proper care shall be taken to ensure no run off or seepage from the red mud disposal site to natural drainage. |

#### 18. Green Belt

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18.1  | The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 18.2  | Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames. |
| 18.3  | Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### 19. Public Hearing And Human Health Issues

| S. No | EC Conditions                                                                                                                                |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 19.1  | Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented. |

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19.2  | 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.                                                                                                                                                                                                                                                                                                                 |
| 19.3  | Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.                                                                                                                                               |
| 19.4  | Occupational health surveillance of the workers shall be done on a regular basis and records maintained.                                                                                                                                                                                                                                                                                                                                                                                            |
| 19.5  | All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC. PP shall adopt nearby villages and prepare and implement a robust plan to develop them into model villages in next 10 years. |

## 20. Environment Management

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20.1  | The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.                                                                                                                                                                                                                                         |
| 20.2  | The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. |
| 20.3  | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 20.4  | Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 21. Miscellaneous

| S. No | EC Conditions                                                                                                                                                                                             |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21.1  | 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 |

| S. No | EC Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | 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.                                                                                                                                                                                                                                                                           |
| 21.2  | 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.                                                                                                                                                                                                        |
| 21.3  | 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.                                                                                                                                                                                                                                                                              |
| 21.4  | The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (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.                                                                                                                                                                          |
| 21.5  | Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented                                                                                                                                                                                                                                                                                                                                                                          |
| 21.6  | The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.                                                                                                                                                                                                                                                 |
| 21.7  | 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.                                                                                                                                                                                                                |
| 21.8  | The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.                                                                                                                                                                                                                        |
| 21.9  | 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 State Expert Appraisal Committee.                                                                                                                                                                                                                                                             |
| 21.10 | The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.                                                                                                                                                 |
| 21.11 | The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain. |
| 21.12 | 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)/SEIAA-TN.                                                                                                                                                                                                                                                                                                               |

| S. No | EC Conditions                                                                                                                                                                                                                                                   |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21.13 | 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.                                                          |
| 21.14 | The Ministry/SEIAA-TN may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.                                                                                                                                |
| 21.15 | The Ministry/SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.                                                                                            |
| 21.16 | The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports. |
| 21.17 | 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.                                                                        |



**AFFIDAVIT**  
**FOR WATER SUPPLY, SEWAGE DISPOSAL, SOLID WASTE DISPOSAL,**  
**CURRENT STATUS OF THE SITE, CER ACTIVITIES FOR THE PROPOSED**  
**EXPANSION PROJECT UNDER APPRAISAL IN STATE ENVIRONMENT IMPACT**  
**ASSESSMENT AUTHORITY**

I, R. Mohanakrishnan, represent M/s. Craftsman Automation Limited (Unit – I Kothavadi) as Vice President – Admin & HRD having Reg. Office at 123/4, Sangothipalayam, Arasur Post, Coimbatore – 641 407 is proposed to expand its foundry unit located at S.F. No. 77/1, 77/2, 80/1A, 80/1B, 2A, 2B, 2C, 2D, 93, 96, 97/3, 99/1A, Kothavadi Village, Kinathukadavu Taluk, Coimbatore District. An application submitted by us seeking Environmental Clearance for proposed expansion activity under the EIA Notification, 2006 is under scrutiny in the Authority. I am furnishing the following undertaking to the Authority.

I / We Sworn that

1. The total water requirement for the expansion project is about 165 KLD, which will be met from Kinathukadavu Water Project LLP as per the agreement made with them. Based on the above commitment, we hereby undertake and commit that required water for the entire operation period will be obtained from the above Authority.
2. Sewage of 25 KLD will be treated in the existing STP of 100 KLD capacity and treated sewage will be utilized in gardening purposes. Effluent generation of 1 KLD generated from the wet scrubber will be treated in proposed ETP of 2 KLD and the treated effluent will be reused in cooling process.
3. We assure that we are liable for the operation and maintenance of STP & ETP for the entire life of the project.
4. The Non - Hazardous wastes such as Runners, Risers & Rejects (28,300 TPA) will be recycled in the process, Furnace Slag (500 TPA) will be disposed to Cement plant / Road laying through local contractors, Waste Sand (3,87,002 TPA) will be reused in the process after reclamation, Bag filter dust (16,125 TPA) will be sent to Authorized pre-processors and STP Sludge (2.5 kg/day) will be used as a manure in greenbelt development.

5. The Hazardous waste of Used or Spent Oil – 7 TPA, Wastes / residue containing oil – 1 TPA, Empty barrels / containers contaminated with hazardous chemicals – 300 TPA & Chemical sludge from waste water treatment (ETP Sludge) – 0.5 TPA from the plant will be Collected, Stored & disposed to TNPCB Authorized Recyclers / Pre-processors.
6. We also assure that the storm water drain would not carry any untreated or treated sewage.
7. The budget allocation for Environmental Management Program is as follows,

| Description             | Capital Investment | Annual Operating Costs |
|-------------------------|--------------------|------------------------|
|                         | (Rupees in Lakhs)  |                        |
| Air Pollution Control   | 300                | 100                    |
| Water Pollution Control | 25                 | 10                     |
| Solid Waste Management  | 70                 | 20                     |
| Noise Pollution Control | 25                 | 10                     |
| Green belt Development  | 10                 | 10                     |
| <b>Total</b>            | <b>430</b>         | <b>150</b>             |

8. We fully assure that 62,060 Sq. m. (35.26 % of total plot area) will be allotted for green belt development within the premises and will not be used for any other activities.
9. As per the MoEF&CC Office Memorandum F. No. 22-65/2017-IA.III dated: 30.09.2020, and 20/10/2020, Rs. 250 Lakhs will be spent towards CER. The CER Amount allocated will be effectively utilized for the nearby Villages.

| S. No.       | Description                                                                                                                                                      | Amount (Lakhs) |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 1            | Environmental / Social Welfare / Eco-restoration activities in consultation with District Collector, Coimbatore & Commissioner, Coimbatore Municipal Corporation | 250            |
| <b>Total</b> |                                                                                                                                                                  | <b>250</b>     |

10. We assure that the CER activities will be completed before obtaining CTO from TNPCB.
11. We assure that we will abide all the conditions imposed by State Expert Appraisal Committee (SEAC) and State Level Environment Impact Assessment Authority (SEIAA).
12. I also commit that there will not be any activity carried out in the proposed area and the area is vacant. In this regard, photographs of the proposed project area taken on the 30<sup>th</sup> July, 2025 is enclosed. It truly depicts the status of the site as on this day.

As authorized signatory of this project, I am aware that I can be prosecuted under relevant Act and Rules, if I am not ensuring the adherence of the above commitments.

## **STANDARD CONDITIONS**

### **(A) Statutory compliance**

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. 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.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

### **(B) Air quality monitoring and preservation:**

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 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.
- iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21<sup>st</sup> July, 2010 and amended from time to time shall be followed.
- vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be complied with

**(C) Water quality monitoring and preservation:**

- i. The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).
- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution

Control Board while granting Consent under the Air/Water Act, whichever is more stringent.

- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

**(D) Noise monitoring and prevention:**

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

**(E) Safety, Public hearing and Human health issues:**

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

**(F) Corporate Environment Responsibility:**

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1stMay 2018, as applicable, regarding Corporate Environment Responsibility.
- 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&CC as a part of six-monthly report.
- 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.
- 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 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

**(G)Waste management:**

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- iii. The company shall undertake waste minimization measures as below:-
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - c. Use of automated filling to minimize spillage.
  - d. Use of Close Feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

**Air Environment**

- 1. Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.
- 2. CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.
- 3. Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.
- 4. Transportation of materials by rail/ conveyor belt, wherever feasible.
- 5. Encourage use of cleaner fuels (pet coke/ furnace oil/ LSHS may be avoided).

6. Best Available Technology may be used. For example; usage of EAF/SAF/ IF in place of Cupola furnace. Usage of Supercritical technology in place of sub-critical technology.
7. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.
8. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.
9. Assessment of carrying capacity of transportation load on roads inside the industrial premises.

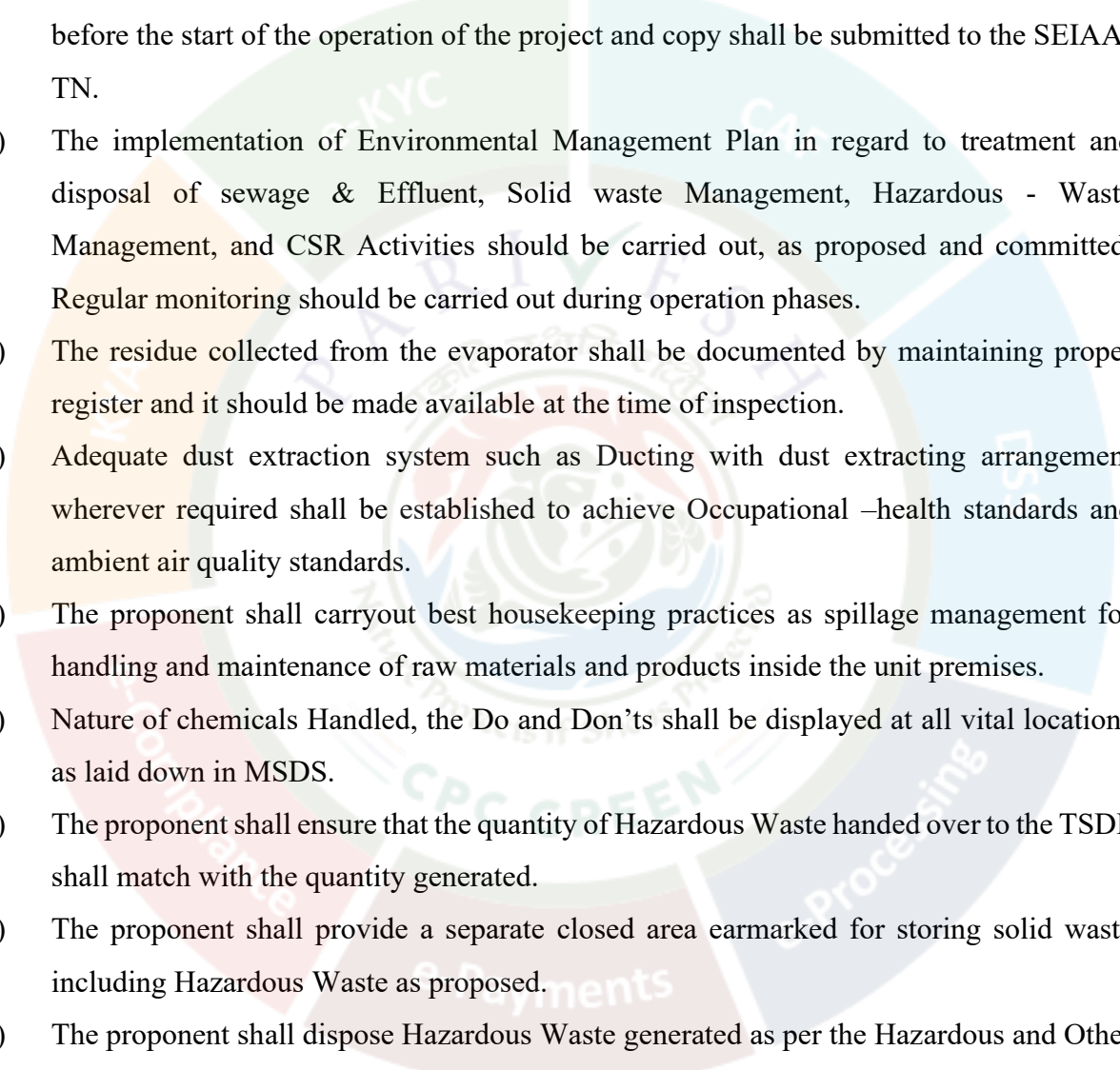
#### **Water Environment**

1. Reuse/recycle of treated wastewater, wherever feasible.
2. Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting).
3. A detailed water harvesting plan may be submitted by the project proponent
4. Zero liquid discharge wherever techno - economically feasible.

#### **Land Environment**

1. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects.
2. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.
3. Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.
4. More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co processing.
5. Monitoring of compliance of EC conditions may be submitted with third party audit every year.
6. The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.

#### **(H) SPECIFIC CONDITIONS:**

- 
- (i) It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.
  - (ii) “Consent for Establishment” shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.
  - (iii) “Consent to Operate” should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.
  - (iv) The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.
  - (v) The residue collected from the evaporator shall be documented by maintaining proper register and it should be made available at the time of inspection.
  - (vi) Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational –health standards and ambient air quality standards.
  - (vii) The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
  - (viii) Nature of chemicals Handled, the Do and Don’ts shall be displayed at all vital locations as laid down in MSDS.
  - (ix) The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
  - (x) The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
  - (xi) The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
  - (xii) The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
  - (xiii) The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2016 as amended.

- (xiv) The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.
- (xv) The industry shall conduct air sampling at least once in six months for the general core parameters (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
- (xvi) Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
- (xvii) A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.
- (xviii) The Green belt area already developed within the project area shall be properly maintained.
- (xix) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xx) The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
- (xxi) The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.
- (xxii) The energy sources for lighting purposes shall preferably be LED based.
- (xxiii) The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
- (xxiv) Risk cum disaster management plan should be in place in the industry premises at all time.
- (xxv) Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.
- (xxvi) The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment

area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.

- (xxvii) The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras.
- (xxviii) All the assurances given in EIA and EMP shall be adhered strictly.
- (xxix) Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
- (xxx) Sufficient funds should be provided for Disaster management.
- (xxxi) The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
- (xxxii) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.
- (xxxiii) The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.
- (xxxiv) The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
- (xxxv) As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
- (xxxvi) The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.
- (xxxvii) The EMP cost and operation and maintenance cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
- (xxxviii) There should be no threat to Bio diversity due to the operation of the industry.
- (xxxix) The flora & fauna present in and around the project site should be get affected due to the activity as reported.
- (xl) The Project Proponent has to provide rain water harvesting collection tank capacity with Recharging pit in order to recover and reuse the rain water during normal rains.

- (xli) The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.
- (xlii) The project proponent shall carry out risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.
- (xliii) The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
- (xliv) The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.

**(I) GENERAL CONDITIONS:-**

- i. This Environmental Clearance shall not be cited to relax any other rules applicable to this project.
- ii. **The Project Proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the Environmental Clearance informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with TNPCB.**
- iii. **A copy of the Environmental Clearance shall be sent by the project proponent to concerned local body and local NGO, if any from whom suggestions/representatives, if any were received while processing the proposal.**
- 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.
- v. The Environmental Clearance shall also be put on the website of the company.
- vi. No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- vii. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.

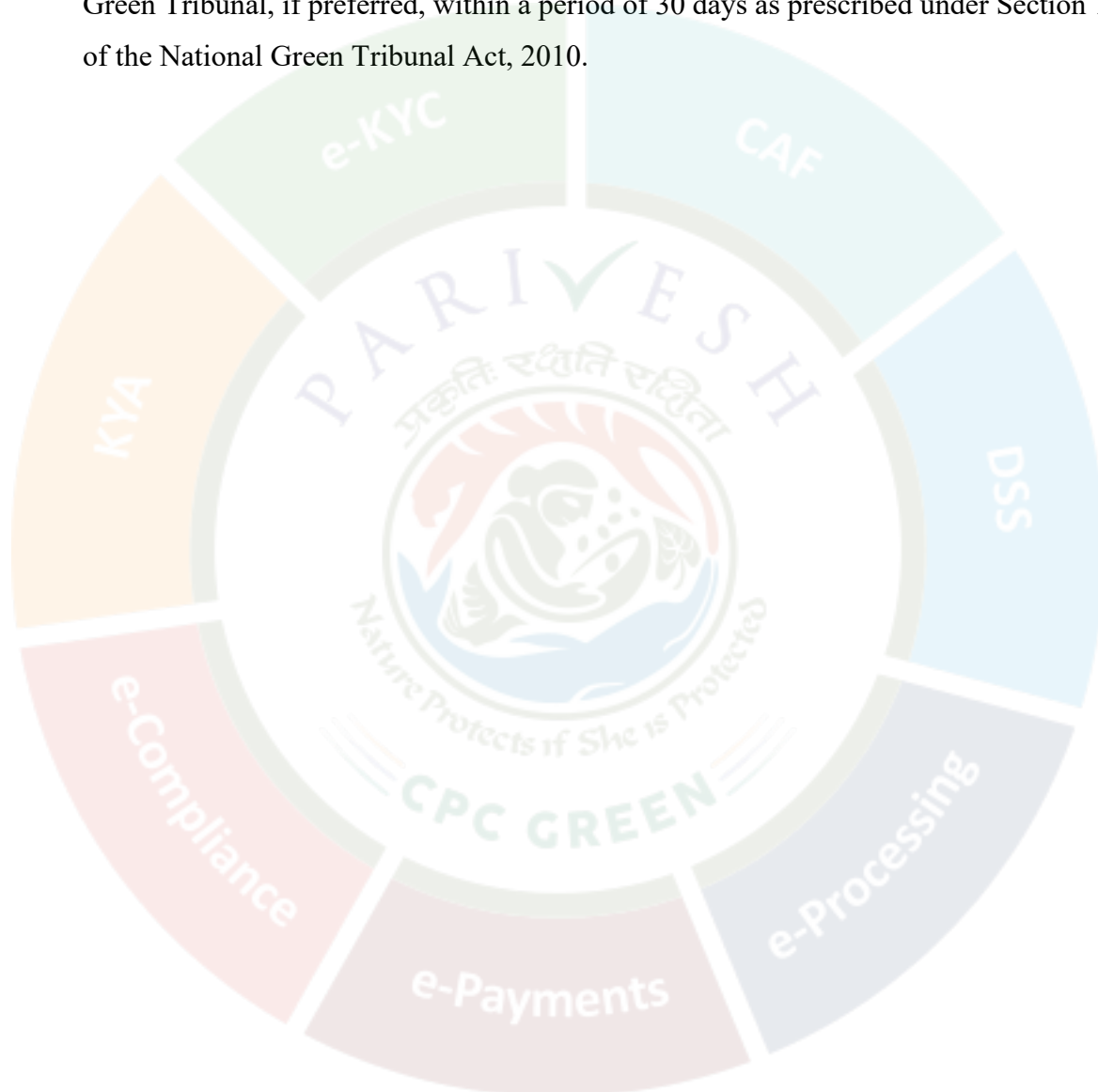
- viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- ix. The implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional office of MoEF& CC at Chennai, TNPCB and CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.
- x. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional office of MoEF & CC, GOI, at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO<sub>2</sub> and NO<sub>x</sub> outside the premises at the appropriate place for the general public.
- xi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xii. Proper house-keeping and cleanliness must be maintained within and outside the plant.
- xiii. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.
- xiv. The overall noise levels in and around the plant area shall be kept well within the standards prescribed for by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (day time) and 70 dBA (night time).
- xv. A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.
- xvi. The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.
- xvii. The project proponent shall upload 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 the MOEF & CC, GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- xviii. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned 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 environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xix. Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.
- xx. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxi. The SEIAA/SEAC or any Competent Authority may suitably add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Chennai.
- xxii. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- xxiii. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- xxiv. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- xxv. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.
- xxvi. The above conditions will 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, the Public Liability

Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.

- xxvii. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.



## EC Advertisement Details

The New Indian Express (English) Dated: 21.08.2025

**THE NEW INDIAN EXPRESS**  
COIMBATORE  
TAMIL NADU  
THURSDAY 21.08.2025  
TNEB STAFF ASSAULTED  
Coimbatore: A 27-year-old man was booked for assaulting a TNEB staff, who went to check the power meter reading at MG2 Nagar in Podanur. S. Vigneshwar (27) was prevented from discharging his duty by the allegedly drunk suspect, S. David Raja (27).  
newindianexpress.com

jointly by the association and the hospital for their members and spouses. President PR Sampath, Vice-Presidents S Rathinasabapathy and A Veerapandian, participated. Express  
Canara Bank students u students s were distri Coimbatore

**ANNOUNCEMENT**  
M/s. Craftsman Automation Limited (Unit – I Kothavadi) has obtained Environmental Clearance for the proposed expansion of foundry unit located at S.F. No. 77/1, 77/2, 80/1A, 80/1B, 2A, 2B, 2C, 2D, 93, 96, 97/3, 99/1A, Kothavadi Village, Kinathukadavu Taluk, Coimbatore District from State Level Environment Impact Assessment Authority (SEIAA), Tamil Nadu vide EC Identification No. EC25C1011TN5592051N dated 13.08.2025. The copy of Environmental Clearance is available with Tamil Nadu Pollution Control Board and also seen in the website of State Level Environment Impact Assessment Authority (SEIAA), [www.parivesh.nic.in](http://www.parivesh.nic.in).  
**M/s. Craftsman Automation Limited (Unit – I Kothavadi)**  
123/4, Sangothipalayam Road, Arasur Post, Coimbatore – 641 407.

**BRUHAT BENGALURU MAHANAGARA PALIKE**  
Senior Assistant Director of Horticulture,  
BBMP, Rajarajeshwari Nagara Zone, Bengaluru.  
No.: SADH/RRN/TENDER/12/2025-26 Date: 20.08.2025  
**INVITATION FOR RE-TENDER (IFT)**  
(Short Term) (Two Cover System)  
(Through GOK e-Procurement Portal Only)  
Senior Assistant Director of Horticulture (Rajarajeshwari Nagar), (Referred to as Employer in these documents) invites tenders to implement in accordance with KTPP Rules 2000, from eligible and experienced Person / Agencies / Firms (Referred to as Tenderers in these documents) registered in Security Services to Parks. (Standard tender document: KW-1, KW-2, KW-3 & KW-4).  
SI. No. Name of the Work  
1 Security Services to parks in Rajarajeshwarinagara Constituency. Estimate cost: 1,50,00,000/-, EMD Amount: 2,25,000/- Category: Others.

**KSEB KERALA ST**  
O/o the Assistant Exec  
E Tender ID No 2025\_KSEB  
O/o the Chief Engineer  
E Tender ID No 2025\_KSEB  
O/o the Executive E  
E Tender ID No 2025\_KSEB  
Visit [www.ksebtenders.com](http://www.ksebtenders.com)  
E-Tender No  
Sr. Divisional Signal & Tele  
online tender on behalf of  
11.09.2025.

| Item No. | Tender Notifi  |
|----------|----------------|
| 1.       | T-SG-36-I-20-2 |
| 2.       | T-SG-36-I-21-2 |
| 3.       | T-SG-36-I-22-2 |
| 4.       | T-SG-36-I-23-2 |
| 5.       | T-SG-36-I-24-2 |

| Item No. | Advertised Value | E |
|----------|------------------|---|
| 1.       | Rs.19.27 Lakhs   |   |
| 2.       | Rs.368.58 Lakhs  |   |
| 3.       | Rs.30 Lakhs      |   |

வல உளவு பொது நலவ  
யத்தில் காருக்கு எரிவாயு நிரப்  
பிவிட்டு இயக்கியுள்ளார்.  
அப்போது திடீரென காரில்

நாயக்கப்பாளையம் போலீ  
ஸார் வழக்குப் பதிவு செய்து  
விசாரணை நடத்தி வருகின்  
றனர்.

### அறிவிப்பு

M/s. கிராப்ட்ஸ்மேன் ஆடோமேசன் லிமிடெட் (யூனிட்-1 கோதவாடி) நிறுவனமானது, கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், கோதவாடி கிராமம், புல எண். 77/1, 77/2, 80/1A, 80/1B, 2A, 2B, 2C, 2D, 93, 96, 97/3, 99/1A, -ல் அமைந்துள்ள தனது வண்டியி் தொழிற்சாலை உற்பத்தி உயர்வு திட்டத்திற்கு மாநில சுற்றுச்சூழல் தாக்க மதிப்பீடு ஆணையத்திடமிருந்து 13.08.2025 தேதியிட இசைவாணை எண்.EC25C1011TN5592051N மூலம் சுற்றுச்சூழல் இசைவாணை பெற்றுள்ளது. இவ்வாணையின் நகலை தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீடு ஆணையத்தின் இணையதளத்திலும் ([www.parivesh.nic.in](http://www.parivesh.nic.in)) காணலாம்.

**M/s.கிராப்ட்ஸ்மேன் ஆடோமேசன் லிமிடெட்**  
(யூனிட்-1 கோதவாடி)  
1223/4, சங்கோதப்பாளையம் ரோடு, அரகூர் அஞ்சல், கோயம்புத்தூர் - 641 407.

சென்ற  
டம்பா  
கிழமை

ததல்:  
ரிமுதல்

அன்னுர்  
கிராவல்  
தொடர்  
களை வரு  
பறிமுதல்

புள்ள சு  
ட்டையில  
ப்படுவதா  
ராவுக்கு ர

தது.  
வரது உத்  
வாய் ஆய்  
மார், கிராம

தமிழ்நாடு ஆளுநருக்காகவும், அவர்களின் சார்பு (க/ம)ப, சேலம் வட்டம் அலுவலகங்கள், சேலம், ரு கோட்டங்களை சார்ந்த 2025-26 ஆண்டிற்கான எட 46 முதல் 48 வரை) இணையவழியில் மட்டுமே சதவீ



## TEST REPORT

### EFFLUENT WATER ANALYSIS

|                                  |                                                                                                                                                                       |                          |                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| Report / ULR No :                | TC13674-25-0-000012943-F                                                                                                                                              | Report Date :            | 04.09.2025                                                                          |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                          |  |
| Sample Description :             | Effluent Water                                                                                                                                                        | Sample Reference No :    | EL-NL-WW-127-08-2025                                                                |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :  | 28.08.2025                                                                          |
| Sampling Time :                  | 04.05 PM                                                                                                                                                              | Sample Received on :     | 29.08.2025                                                                          |
| Qty of Sample Received :         | 1 Liter (Approximately)                                                                                                                                               | Test Commenced on :      | 29.08.2025                                                                          |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :      | 03.09.2025                                                                          |
| Sampling Environment Condition : | Temperature:31.1°C                                                                                                                                                    | Sampling Method / Plan : | EL-SOP-WRS-01                                                                       |
| Sample Mark :                    | RO Reject Water                                                                                                                                                       |                          |                                                                                     |
| Instruments Used for Sampling :  | --                                                                                                                                                                    |                          |                                                                                     |

| S. No                   | Name of the Test                                   | Test Method                             | Units | Results |
|-------------------------|----------------------------------------------------|-----------------------------------------|-------|---------|
| <b>Chemical Testing</b> |                                                    |                                         |       |         |
| 1                       | Biochemical Oxygen Demand (BOD) at 27°C for 3 days | IS 3025 (Part 44) :2023                 | mg/L  | <2.0    |
| 2                       | Chemical Oxygen Demand (COD)                       | IS 3025 (Part 58) :2023                 | mg/L  | <4.0    |
| 3                       | Chlorides (as Cl <sup>-</sup> )                    | Clause No.2 of IS 3025 (Part 32) : 1988 | mg/L  | 724     |
| 4                       | Dissolved Solids (Inorganic)                       | IS 3025 (Part 16) :2023                 | mg/L  | 2080    |
| 5                       | Oil & Grease                                       | Clause No.5 of IS 3025 (Part 39) :2021  | mg/L  | <4.0    |
| 6                       | pH value @ 25°C                                    | IS 3025 (Part 11) : 2022                | No    | 7.8     |
| 7                       | Sulphates (as SO <sub>4</sub> )                    | IS 3025 (Part 43/Sec 1): 2022           | mg/L  | 434     |
| 8                       | Total Suspended Solids @ 105°C                     | IS 3025 (Part 17) : 1984                | mg/L  | <5.0    |

Statement of Conformity:--

<-- End of Report -->

Report Verified by

Technical Personnel

**R.REVATHI**  
Technical Manager

For EXCELLENCE LABORATORY

Authorized Signatory

**R.S.DINAKARAN**  
Quality Manager



**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

## DESIGN DETAILS OF EFFLUENT TREATMENT PLANT

Effluent Treatment Plant is proposed for **M/s. Craftsman Automation Ltd, Coimbatore** to treat the effluent generation in the facility and to reuse the treated effluent for Landscaping / gardening.

Treatment of Effluent generated from wet scrubber attached to the Core Shooter of the factory to make it suitable for utilization of treated effluent for gardening purposes as per TNPCB's requirement.

### Effluent Generation

Average Feed Flow - 1 KL per Day

Peak/Max. Feed Flow – 0.5 KL per Hour

### Effluent Treatment Plant Capacity

This plant has been designed considering 2 KLD of Effluent

Plant Capacity – 2,000 Litres per Day

Treatment Process - 500 Litres per Hour (4 Hours Operation)

### DESIGN CHARACTERISTICS OF EFFLUENT AND TREATED WATER

| S. No. | Parameters                          | ETP Feed (Assumed) | ETP Treated Water Outlet | TNPCB Standards |
|--------|-------------------------------------|--------------------|--------------------------|-----------------|
| 1.     | pH                                  | 7.98               | 7.8                      | 5.5 - 9.0       |
| 2.     | Total Dissolved Solids (TDS) (mg/l) | 1000               | <1000                    | 2100            |
| 3.     | Total Suspended Solids (TSS) (mg/l) | 75                 | <30                      | 50              |
| 4.     | BOD (mg/l)                          | 100                | <20                      | 30              |
| 5.     | COD (mg/l)                          | 150                | <50                      | 100             |
| 6.     | Chloride as Cl (mg/l)               | 300                | <300                     | 600             |
| 7.     | Sulphate as SO <sub>4</sub> (mg/l)  | 200                | <200                     | 1000            |

**\*TNPCB standards for On Land Disposal/Gardening**

### **Treatment Scheme:**

The Effluent Treatment Plant (ETP) is designed based on chemical precipitation followed by Aeration and filtration processes to treat effluent generated from a wet scrubber attached to the core shooter. The effluent first passes through a bar screen to remove floating particles (>10 mm) and is collected in a collection tank. It then enters a flash mixer, where Lime / Alum is dosed and rapidly mixed, followed by a flocculator where Poly Electrolyte is added to form settleable flocs. The flocculated water flows to the primary settling tank for solid-liquid separation, with settled sludge directed to the sludge drying bed. The clarified water is treated biologically in the aeration tank to reduce BOD and COD, and further clarified in the secondary settling tank. The effluent is then filtered through a Pressure Sand Filter (PSF) and Activated Carbon Filter (ACF) to remove suspended solids and organic impurities. The treated water is collected in the treated water tank and reused for greenbelt development as per TNPCB norms.

### **UNIT DETAILS AND SALIENT FEATURES**

The various units of the treatment plant are listed, their objectives explained, salient feature of the units are furnished and the normal operational procedure defined, with precautions to be followed listed. The sections have been organized in sequential manner with connected sub units being placed under one section.

#### **Effluent Collection Tank**

##### **Objectives**

- ❖ The main objective of the oil effluent collection is to receive the waste water from the machining unit & wet scrubber
- ❖ Performance of the effluent treatment is enhanced, because shock loading is eliminated or minimized and inhibiting substances diluted
- ❖ Helps to reduce the size and cost of downstream treatment facilities.

| COLLECTION TANK |                 |
|-----------------|-----------------|
| Quantity        | 1               |
| Size in Mtrs    | 4.5 x 3.4 x 2.0 |
| Volume in KL(V) | 30              |

### **Flash Mixer Tank**

#### **Objectives:**

The flash mixer tank purpose is to normally operate online flow principle, providing sufficient mixing time of coagulant at flow conditions and its helps to precipitation. A panel push button/ local switch operation of the equalization tank pumps from the equalization tank. An agitator fixed at the flash mixer tank to ensure the proper mixing of chemicals.

#### **Tank Details**

| <b>FLASH MIXER TANK</b> |        |
|-------------------------|--------|
| No. of units            | 1 No.  |
| Tank Capacity           | 0.5 KL |
| MOC                     | MSFRP  |

### **Flocculator Tank**

#### **Objectives:**

The flocculator tank purpose is to normally operate online flow principle, providing sufficient mixing time of flocculant at flow conditions and its helps to sedimentation/settling. A panel push button/ local switch operation of the equalization tank pumps from the equalization tank. An agitator fixed at the flash mixer tank to ensure the proper mixing of chemicals.

#### **Tank Details**

| <b>FLOCCULATOR TANK</b> |        |
|-------------------------|--------|
| No. of units            | 1 No.  |
| Tank Capacity           | 0.5 KL |
| MOC                     | MSFRP  |

### **Primary Settling Tank**

#### **Objectives:**

The primary settling tank purpose is to normally operate online flow principle, providing sufficient settling time of high-density COD particles and the hopper bottom provides settling. When the flocs have been formed, they must be separated from the water. This is invariably done in gravity-settling tanks that allow the heavier-than-water particles to settle to the bottom. Settling tanks are designed to minimize turbulence and allow the particles to fall to the bottom.

**Tank Details:**

| PRIMARY SETTLING TANK |                          |
|-----------------------|--------------------------|
| Quantity              | 1                        |
| Size in Mtrs          | 1.0 x 1.0 x 2.0 + 0.7 FB |
| Volume in KL(V)       | 2                        |

**Aeration Tank:****Objective:**

The objective of the aeration tank is to reduce if the BOD load in the effluent. Biological treatment for BOD reduction occurs in the aeration tank through the air supply to aeration tank water through the air blowers.

**Tank Details:**

| AERATION TANK   |                          |
|-----------------|--------------------------|
| Quantity        | 1                        |
| Size in Mtrs    | 2.0 x 2.0 x 2.5 + 0.5 FB |
| Volume in KL(V) | 10                       |

**Secondary Settling Tank****Objective:**

The objective of the secondary settling tank is settled the high-density solids in bottom and pumped to the sludge to the drying bed, and the supernatant water from the secondary settling tank flows to the filter feed tank.

**Tank Details:**

| SETTLING TANK   |                                   |
|-----------------|-----------------------------------|
| Quantity        | 1                                 |
| Size in Mtrs    | 2.0 x 1.5 x 1.9 + 0.6 HB + 0.6 FB |
| Volume in KL(V) | 5.7                               |

**Filter Feed Tank****Objective:**

The objective of the filter feed tank is to store the supernatant water from the secondary settling tank

**Tank Details:**

| FILTER FEED TANK |               |
|------------------|---------------|
| Quantity         | 1             |
| Volume in KL(V)  | 2 (HDPE Tank) |

**Operation**

The filter feed pump is operated for the required number of hours depending on the amount of water to be pumped.

**Pressure Sand Filter (PSF)****Objective:**

The purpose of the Pressure Sand Filter is to remove the suspended solids from semi treated water.

**Tank Details:**

| PRESSURE SAND FILTER |                   |
|----------------------|-------------------|
| Quantity             | 1                 |
| Size in Mtrs         | 0.35 Dia x 1.3 Ht |

**Operation**

- ❖ The operation of the PSF has two Phases / Cycles.
- ❖ The normal / filtration phase and the backwash phase.
- ❖ The frequency of backwash is based on flow and Pressure.

**Activated Carbon Filter (ACF)****Objective:**

The purpose of passing the effluent through the Activated Carbon Filter is to remove the suspended solids & odor from it.

**Tank Details:**

| ACTIVATED CARBON FILTER |                   |
|-------------------------|-------------------|
| Quantity                | 1                 |
| Size in Mtrs            | 0.35 Dia x 1.3 Ht |

### Operation

- ❖ The operation of the ACF has two Phases / Cycles.
- ❖ The normal / filtration phase and the backwash phase.
- ❖ The frequency of backwash is based on flow and pressure.

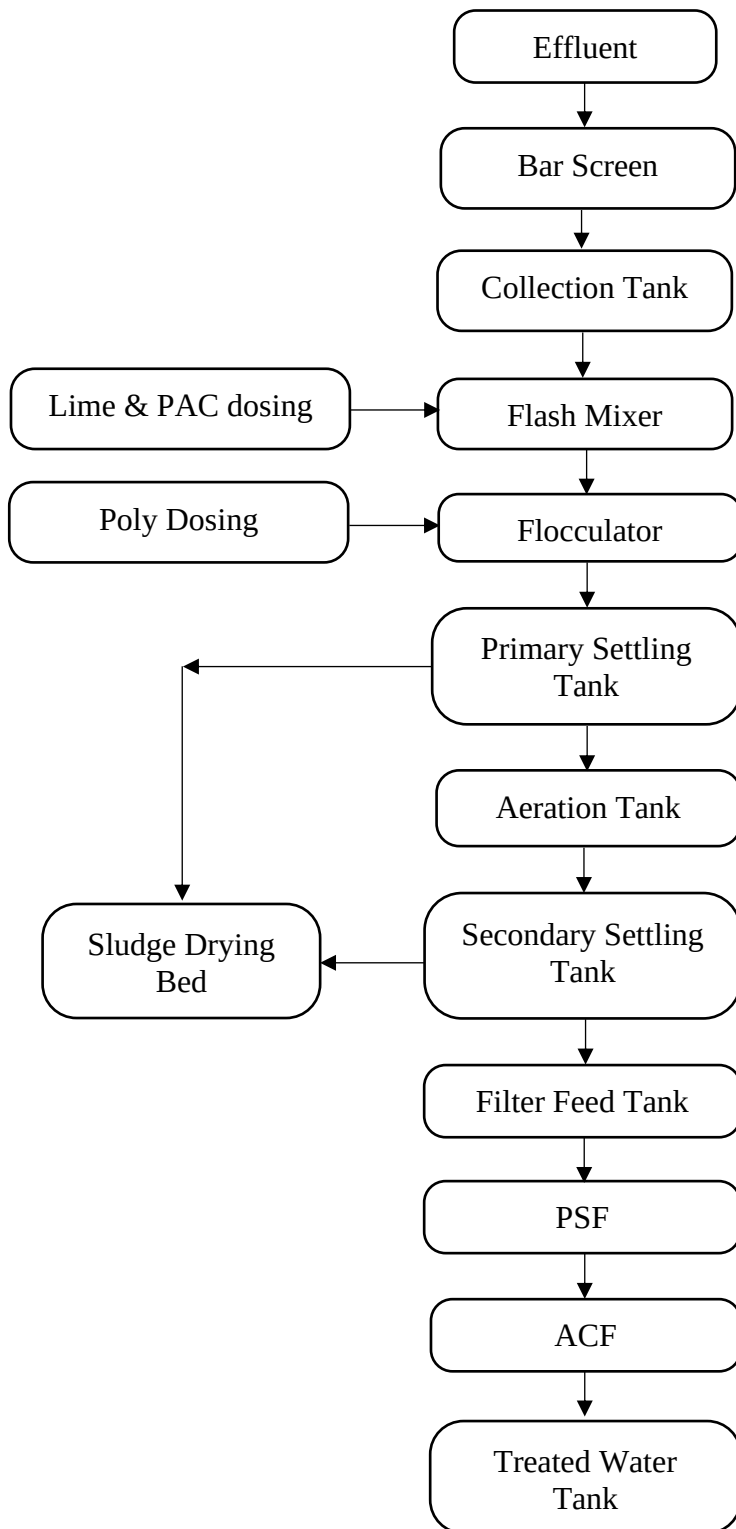
### Disinfection system

UV disinfection system has greatly reduced the prevalence of waterborne disease, as it is effective against almost all bacteria and viruses, as well as amoeba.

### Tank Details:

| UV DISINFECTION SYSTEM |                           |
|------------------------|---------------------------|
| Quantity               | 1 No.                     |
| Capacity               | 0.5 m3/hr                 |
| Make                   | Plasma                    |
| MOC                    | Body - SS / Light - Glass |

## **ETP PROCESS FLOW DIAGRAM**



## TECHNICAL SPECIFICATION

| SL.No                            | Description                                                           | Qty      |
|----------------------------------|-----------------------------------------------------------------------|----------|
| <b>I. 2 KLD ETP – EQUIPMENTS</b> |                                                                       |          |
| 1                                | <b>BAR SCREEN</b>                                                     | 2 No     |
|                                  | Size: 0.5 x 0.5 x 0.5mt                                               |          |
|                                  | MOC: MSEP                                                             |          |
| 2                                | <b>EFFLUENT COLLECTION TANK PUMP</b>                                  | 2 Nos    |
|                                  | Type: Horizontal centrifugal                                          | (1W +1S) |
|                                  | Capacity:0.5 m3/hr; Head 15 m; Power: 1 HP                            |          |
|                                  | MOC: CI                                                               |          |
|                                  | Accessories: Non-Clog Pump coupled with Horizontal foot mounted motor |          |
|                                  | Make: Kirloskar / CNP / Equiv                                         |          |
| 3                                | <b>DOSING SYSTEM</b>                                                  | 3 Nos    |
|                                  | Tank-50ltrs                                                           |          |
|                                  | Pump:0-15LPH                                                          |          |
|                                  | Type: Metering Type                                                   |          |
|                                  | Make: Focus/e-DOSE                                                    |          |
|                                  | Agitators MOC: SS                                                     |          |
| 4                                | <b>REACTOR TANK with FLASH MIXER &amp; FLOCCULATOR</b>                | 1 No     |
|                                  | Size: 1 x 1 x 3 mtr                                                   |          |
|                                  | MOC: MSFRP (Inner side)                                               |          |
|                                  | Feed well drum: 0.3 dia x 1.5mtr Ht                                   |          |
| 5                                | <b>FLASH MIXER &amp; FLOCCULATOR AGITATOR</b>                         | 2 Nos    |
|                                  | Shaft MOC: SS304                                                      |          |

|    |                                                                                                                    |       |
|----|--------------------------------------------------------------------------------------------------------------------|-------|
|    | RPM: 50 & 100                                                                                                      |       |
| 6  | <b>REACTOR SLUDGE TRANSFER PUMP</b>                                                                                | 1 No  |
|    | Type: Horizontal, non-clog pump fitted with horizontal foot mounted motor                                          |       |
|    | Capacity: 0.5 m <sup>3</sup> /hr; Head 15 m; Power: 1 HP                                                           |       |
|    | MOC: CI                                                                                                            |       |
|    | Accessories: Baseplates, pipe nipples, fasteners, gaskets, level switches and all other necessary accessories etc. |       |
|    | Make: Kirloskar / CNP / Equiv                                                                                      |       |
| 7  | <b>AERATION TANK</b>                                                                                               | 1 No  |
|    | Size: 2.0 x 2.0 x 2.5mtr + 0.5FB                                                                                   |       |
|    | MOC: MSFRP(Inner)                                                                                                  |       |
| 8  | <b>SECONDARY SETTLING TANK</b>                                                                                     | 1 No  |
|    | Size: 1.0 x 2.0 x 2.5mtr(0.5HB)                                                                                    |       |
|    | MOC: MSFRP(Inner)                                                                                                  |       |
| 9  | <b>AIR BLOWER</b>                                                                                                  | 2 Nos |
|    | Capacity: 30m <sup>3</sup> /hr                                                                                     |       |
|    | MOC: CI                                                                                                            |       |
|    | Make: Akash/Eqv                                                                                                    |       |
| 10 | <b>FINE BUBBLE DIFFUSER (For Aeration Tank)</b>                                                                    | 2 Nos |
|    | Size of the Membrane :63mm x 610mm long                                                                            |       |
|    | Type of the Membrane: Tube Type, Non-Clog                                                                          |       |
|    | MOC: PP with EPDM                                                                                                  |       |
|    | Retrievable arrangement: Provided                                                                                  |       |
| 11 | <b>SECONDARY SETTLING SLUDGE TRANSFER PUMP</b>                                                                     | 1 No  |
|    | Type: Horizontal, non-clog pump fitted with horizontal foot mounted motor                                          |       |

|    |                                                                                                                    |          |
|----|--------------------------------------------------------------------------------------------------------------------|----------|
|    | Capacity: 0.5 m <sup>3</sup> /hr; Head 15 m; Power: 1 HP                                                           |          |
|    | MOC: CI                                                                                                            |          |
|    | Accessories: Baseplates, pipe nipples, fasteners, gaskets, level switches and all other necessary accessories etc. |          |
|    | Make: Kirloskar / CNP / Equiv                                                                                      |          |
| 12 | <b>FILTER FEED TANK</b>                                                                                            | 1 No     |
|    | Capacity: 2 kl                                                                                                     |          |
|    | MOC: HDPE                                                                                                          |          |
|    | Make: Sintex / Eqv                                                                                                 |          |
| 13 | <b>TREATED WATER TANK</b>                                                                                          | 1 No     |
|    | Capacity: 2 kl                                                                                                     |          |
|    | MOC: HDPE                                                                                                          |          |
|    | Make: Sintex / Eqv                                                                                                 |          |
| 14 | <b>FILTER FEED PUMP</b>                                                                                            | 2 Nos    |
|    | Type: Horizontal, non-clog pump fitted with horizontal foot mounted motor                                          | (1W +1S) |
|    | Capacity: 0.5 m <sup>3</sup> /hr ; Head 15 m ; Power : 1 HP                                                        |          |
|    | MOC: CI                                                                                                            |          |
|    | Accessories: Baseplates, pipe nipples, fasteners, gaskets, level switches and all other necessary accessories etc. |          |
|    | Make: Kirloskar / CNP / Equiv                                                                                      |          |
| 15 | <b>PRESSURE SAND FILTER</b>                                                                                        | 1 No     |
|    | Type: Vertical Cylindrical                                                                                         |          |
|    | Design Pressure: 5.0 Kg/cm <sup>2</sup>                                                                            |          |
|    | Working Pressure: 2.5 – 3.0 Kg/cm <sup>2</sup>                                                                     |          |
|    | Service Flow rate: 0.5 m <sup>3</sup> /hr                                                                          |          |
|    | Distribution System: MPV (Manual)                                                                                  |          |

|    |                                                                                                                                                                                                                                                                                                          |      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|    | MOC: FRP                                                                                                                                                                                                                                                                                                 |      |
|    | Filter media: Graded Sand, Pebbles of Various sizes, Filter media Size: BOTTOM portion (Pebbles): (i) 1 1/2" x 1" (ii) 3/4" x 1/2" (iii) 1/2" x 3/8"; MIDDLE portion i) Coarse sand: 3/8 'x 1/4" (ii) Fine sand: 1/4" x 1/10"; TOP portion: 16/32 Filter sand                                            |      |
|    | Accessories: Multiport Valve with required Two no of Pressure gauges (0- 5 kg/cm <sup>2</sup> ) to monitor the pressure drop through the filter back washing arrangement.                                                                                                                                |      |
| 16 | <b>ACTIVATED CARBON FILTER</b>                                                                                                                                                                                                                                                                           | 1 No |
|    | Type: Vertical Cylindrical                                                                                                                                                                                                                                                                               |      |
|    | Design Pressure: 5.0 Kg/cm <sup>2</sup>                                                                                                                                                                                                                                                                  |      |
|    | Working Pressure: 2.5 – 3.0 Kg/cm <sup>2</sup>                                                                                                                                                                                                                                                           |      |
|    | Service Flow rate: 0.5 m <sup>3</sup> /hr                                                                                                                                                                                                                                                                |      |
|    | Distribution System: MPV (Manual)                                                                                                                                                                                                                                                                        |      |
|    | MOC: FRP                                                                                                                                                                                                                                                                                                 |      |
|    | Filter media: Graded Sand, Pebbles of Various sizes, Activated Carbon Filter media Size: BOTTOM portion(Pebbles) : (i) 1 1/2" x 1" (ii) 3/4" x 1/2" (iii) 1/2" x 3/8" ; MIDDLE portion i) Coarse silex: 3/8 'x 1/4" (ii) Fine silex: 1/4" x 1/10"; TOP portion: 16/32 Filter silex and activated carbon. |      |
|    | Accessories: Multiport Valve with required Two no of Pressure gauges (0- 5 kg/cm <sup>2</sup> ) to monitor the pressure drop through the filter back washing arrangement.                                                                                                                                |      |
|    | Filtering media: Sand/Pebbles & Carbon                                                                                                                                                                                                                                                                   |      |
| 17 | <b>ELECTRICAL CONTROL PANEL</b>                                                                                                                                                                                                                                                                          | 1 No |
| A  | Non-Compartmentalised Control Panel from our standard vendor, with DOL Starters consisting of incoming feeder with outgoing feeder feeders, Voltmeters, Ammeter, push button with indicator lamp, overload relays, Contactors, Bus bar of required size, control cabling etc.                            |      |

|    |                                                                              |      |
|----|------------------------------------------------------------------------------|------|
|    | MOC: MS (1.6 mm Thick) with Powder Coated and Foot Mount; Bottom Cable entry |      |
|    | Switchgears: Siemens/Schneider/L&T/Equiv                                     |      |
|    | Slots: Our equipment supplied + 2 Spares                                     |      |
| B  | Cable: From Equipments to Panel only (Max 6 m)                               |      |
|    | Make: Polycab/Equiv                                                          |      |
| 18 | <b>UPVC PIPES &amp; FITTINGS</b>                                             | 1 No |
|    | Upvc of Schedule 40                                                          |      |
|    | Make – Astral/Prince/Equiv                                                   |      |

**TEST REPORT**

Page 1 of 1

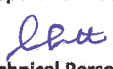
**INDOOR AIR MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|
| Report / ULR No :                | TC13674-25-0-000012924-F                                                                                                                                              | Report Date :                                                                       | 05.09.2025                |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                           |
| Sample Description :             | Indoor Air                                                                                                                                                            | Sample Reference No :                                                               | EL-NL-IA-143-08-2025      |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 28.08.2025                |
| Sampling Time :                  | 8 Hours                                                                                                                                                               | Sample Received on :                                                                | 29.08.2025                |
| Qty of Sample Received :         | Filter Paper(2 nos) & Approx 25 ml Solution(4 nos) &<br>Charcoal Tube (1 No)                                                                                          | Test Commenced on :                                                                 | 29.08.2025                |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 04.09.2025                |
| Sampling Environment Condition : | Temperature:30.7°C, RH:67.9%                                                                                                                                          | Sampling Method / Plan :                                                            | EL-Q-38(SOP-IRS-01 to 20) |
| Sample Mark :                    | Shake Out Area                                                                                                                                                        |                                                                                     |                           |
| Instruments Used for Sampling :  | Mini Combined Sampler (ID No: EL-IT-F62) with calibration validity due on 06.11.2025                                                                                  |                                                                                     |                           |

| S. No                   | Name of the Test                                       | Test Method                                            | Units             | Results | Max. Permissible Limits of OSHA Standard |
|-------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------|---------|------------------------------------------|
| <b>Chemical Testing</b> |                                                        |                                                        |                   |         |                                          |
| 1                       | Ammonia (as NH <sub>3</sub> )                          | CPCB Guidelines, Volume I,<br>NAAQMS/36/2012: 2013     | µg/m <sup>3</sup> | <10     | 35000                                    |
| 2                       | Arsenic (as As)                                        | NIOSH 7900: 1994                                       | µg/m <sup>3</sup> | <10     | 10                                       |
| 3                       | Benzene (as C <sub>6</sub> H <sub>6</sub> )            | NIOSH 1501 : 2003                                      | mg/m <sup>3</sup> | <0.5    | 3.19                                     |
| 4                       | Benzo [a] Pyrene (as C <sub>20</sub> H <sub>12</sub> ) | SOP No.EL-SOP-IRT-17 Issue No.01<br>September,1 : 2021 | mg/m <sup>3</sup> | <0.01   | 0.2                                      |
| 5                       | Carbon Monoxide (as CO).                               | SOP No.EL-SOP-ARS-17 Issue No.01<br>January,1: 2015    | mg/m <sup>3</sup> | <1.2    | 55                                       |
| 6                       | Lead (as Pb)                                           | NIOSH 7105: 1994                                       | µg/m <sup>3</sup> | <10     | 50                                       |
| 7                       | Nickel (as Ni)                                         | SOP No. EL-SOP-IRT-14 Issue No.01<br>October, 1: 2020  | µg/m <sup>3</sup> | <20     | 1000                                     |
| 8                       | Oxidants (as Ozone O <sub>3</sub> )                    | SOP No.EL-SOP-IRT-19 Issue No.01<br>October,19: 2021   | µg/m <sup>3</sup> | <10     | 200                                      |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> )               | SOP No. EL-SOP-IRT-13 Issue No.01<br>October, 1 2019   | µg/m <sup>3</sup> | 14.2    | 9000                                     |
| 10                      | Particulate Matter 10µ (as PM10)                       | NIOSH 0600 : 1998                                      | µg/m <sup>3</sup> | 123     | 5000                                     |
| 11                      | Particulate Matter 2.5µ (as PM2.5)                     | SOP No. EL-SOP-IRT-16 Issue No.01<br>January 2 2021    | µg/m <sup>3</sup> | 64.7    | 5000                                     |
| 12                      | Sulphur Dioxide (as SO <sub>2</sub> )                  | SOP No. EL-SOP-IRT-12 Issue No.01<br>October, 1 2019   | µg/m <sup>3</sup> | 7.9     | 13100                                    |

**Statement of Conformity:**The concentrations of the parameters tested in the above location are within the prescribed limits of OSHA's tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                     |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**INDOOR AIR MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|
| Report / ULR No :                | TC13674-25-0-000012925-F                                                                                                                                              | Report Date :                                                                       | 05.09.2025                |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                           |
| Sample Description :             | Indoor Air                                                                                                                                                            | Sample Reference No :                                                               | EL-NL-IA-144-08-2025      |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 28.08.2025                |
| Sampling Time :                  | 8 Hours                                                                                                                                                               | Sample Received on :                                                                | 29.08.2025                |
| Qty of Sample Received :         | Filter Paper(2 nos) & Approx 25 ml Solution(4 nos) &<br>Charcoal Tube (1 No)                                                                                          | Test Commenced on :                                                                 | 29.08.2025                |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 04.09.2025                |
| Sampling Environment Condition : | Temperature:30.4°C, RH:66.5%                                                                                                                                          | Sampling Method / Plan :                                                            | EL-Q-38(SOP-IRS-01 to 20) |
| Sample Mark :                    | Shot Blast Area                                                                                                                                                       |                                                                                     |                           |
| Instruments Used for Sampling :  | Mini Combined Sampler (ID No: EL-IT-F63) with calibration validity due on 06.11.2025                                                                                  |                                                                                     |                           |

| S. No                   | Name of the Test                                       | Test Method                                            | Units             | Results | Max. Permissible Limits of OSHA Standard |
|-------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------|---------|------------------------------------------|
| <b>Chemical Testing</b> |                                                        |                                                        |                   |         |                                          |
| 1                       | Ammonia (as NH <sub>3</sub> )                          | CPCB Guidelines, Volume I,<br>NAAQMS/36/2012: 2013     | µg/m <sup>3</sup> | <10     | 35000                                    |
| 2                       | Arsenic (as As)                                        | NIOSH 7900: 1994                                       | µg/m <sup>3</sup> | <10     | 10                                       |
| 3                       | Benzene (as C <sub>6</sub> H <sub>6</sub> )            | NIOSH 1501 : 2003                                      | mg/m <sup>3</sup> | <0.5    | 3.19                                     |
| 4                       | Benzo [a] Pyrene (as C <sub>20</sub> H <sub>12</sub> ) | SOP No.EL-SOP-IRT-17 Issue No.01<br>September,1 : 2021 | mg/m <sup>3</sup> | <0.01   | 0.2                                      |
| 5                       | Carbon Monoxide (as CO).                               | SOP No.EL-SOP-ARS-17 Issue No.01<br>January,1: 2015    | mg/m <sup>3</sup> | <1.2    | 55                                       |
| 6                       | Lead (as Pb)                                           | NIOSH 7105: 1994                                       | µg/m <sup>3</sup> | <10     | 50                                       |
| 7                       | Nickel (as Ni)                                         | SOP No. EL-SOP-IRT-14 Issue No.01<br>October, 1: 2020  | µg/m <sup>3</sup> | <20     | 1000                                     |
| 8                       | Oxidants (as Ozone O <sub>3</sub> )                    | SOP No.EL-SOP-IRT-19 Issue No.01<br>October,19: 2021   | µg/m <sup>3</sup> | <10     | 200                                      |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> )               | SOP No. EL-SOP-IRT-13 Issue No.01<br>October, 1 2019   | µg/m <sup>3</sup> | 16.7    | 9000                                     |
| 10                      | Particulate Matter 10µ (as PM10)                       | NIOSH 0600 : 1998                                      | µg/m <sup>3</sup> | 1403    | 5000                                     |
| 11                      | Particulate Matter 2.5µ (as PM2.5)                     | SOP No. EL-SOP-IRT-16 Issue No.01<br>January 2 2021    | µg/m <sup>3</sup> | 718     | 5000                                     |
| 12                      | Sulphur Dioxide (as SO <sub>2</sub> )                  | SOP No. EL-SOP-IRT-12 Issue No.01<br>October, 1 2019   | µg/m <sup>3</sup> | 8.9     | 13100                                    |

**Statement of Conformity:** The concentrations of the parameters tested in the above location are within the prescribed limits of OSHA's tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                     |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MJU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252



**TEST REPORT**

Page 1 of 3

**GROUND WATER ANALYSIS**

|                                  |                                                                                                                                                                       |                                                                                     |                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|
| Report / ULR No :                | TC6932-23-0-00004918-F                                                                                                                                                | Report Date :                                                                       | 13.09.2023          |
| Customer Name & Address :        | M/S. Craftsman Automation Limited – Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                     |
| Sample Description :             | Ground Water                                                                                                                                                          | Sample Reference No :                                                               | EL-NL-GW-16-09-2023 |
| Sample Drawn By :                | Customer                                                                                                                                                              | Sample Collected Date :                                                             | 07.09.2023          |
| Sampling Time :                  | ---                                                                                                                                                                   | Sample Received on :                                                                | 08.09.2023          |
| Qty of Sample Received :         | 2 Liter (Approximately)                                                                                                                                               | Test Commenced on :                                                                 | 08.09.2023          |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 13.09.2023          |
| Sampling Environment Condition : | -                                                                                                                                                                     | Sampling Method / Plan :                                                            | -                   |
| Sample Mark :                    | Bore Well Water - 1 (New - 560)                                                                                                                                       |                                                                                     |                     |
| Instruments Used for Sampling :  | ---                                                                                                                                                                   |                                                                                     |                     |

| No                        | Name of the Test                      | Test Method                                               | Units                     | Results | Max. Permissible Limits of IS:10500:2012 |
|---------------------------|---------------------------------------|-----------------------------------------------------------|---------------------------|---------|------------------------------------------|
| <b>Biological Testing</b> |                                       |                                                           |                           |         |                                          |
| 1                         | Coliforms Bacteria                    | IS 15185 : 2016                                           | Present/<br>Absent/ 100mL | Present | Absent                                   |
| 2                         | Escherichia coli                      | IS 15185 : 2016                                           | Present/<br>Absent/ 100mL | Absent  | Absent                                   |
| <b>Chemical Testing</b>   |                                       |                                                           |                           |         |                                          |
| 3                         | Aluminium (as Al)                     | Clause No.5 of IS 3025 (Part 55) :2003                    | mg/L                      | <0.02   | 0.2                                      |
| 4                         | Ammonia (as Total NH <sub>3</sub> -N) | Clause No.2.5 of IS 3025 (Part 34) :1988                  | mg/L                      | <0.1    | 0.5                                      |
| 5                         | Anionic Detergents (as MBAS)          | Annex K of IS 13428 :2005                                 | mg/L                      | <0.01   | 1.0                                      |
| 6                         | Barium (as Ba)                        | Annex F of IS 13428 :2005                                 | mg/L                      | <0.1    | 0.7                                      |
| 7                         | Boron (as B)                          | Clause No.6 of IS 3025 (Part 57) :2005                    | mg/L                      | <0.1    | 1.0                                      |
| 8                         | Cadmium (as Cd)                       | Clause No.6 of IS 3025 (Part 41) :1992                    | mg/L                      | <0.003  | 0.003                                    |
| 9                         | Calcium (as Ca)                       | Clause No.5 of IS 3025 (Part 40) :1991                    | mg/L                      | 134     | 200                                      |
| 10                        | Chloramines (as Cl <sub>2</sub> )     | APHA 23 <sup>rd</sup> Edition, 4500-Cl <sub>2</sub> P-001 | mg/L                      | <0.1    | 4.0                                      |
| 11                        | Chlorides (as Cl)                     | Clause No.2 of IS 3025 (Part 32) :1988                    | mg/L                      | 252     | 1000                                     |

Disclaimer : 1.This test report shall not be reproduce in full or part without the written approval of the Laboratory.

2.The test results relate only to the test item tested and results apply to the sample "as received conditions".

3.This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.

4.The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.

5.This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.

6.Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.

7.This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.

8.Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.

9.(BDL) - Below Detectable Limit; (DL) - Detectable Limit; (MU) - Measurement Uncertainty; (NA) - Not Applicable; (CFU) - Colony Forming Unit.

10.No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.

11. ( # ) Mark indicates the tests are subcontracted to other accredited laboratory.



**TEST REPORT**

Page 2 of 3

Report / ULR No : TC6932-23-O-00004918-F

|    |                                                          |                                                   |      |           |           |
|----|----------------------------------------------------------|---------------------------------------------------|------|-----------|-----------|
| 12 | Colour                                                   | Clause No.4 of IS 3025 (Part 04) :2021            | CU   | <1.0      | 15        |
| 13 | Copper (as Cu)                                           | Clause No.6 of IS 3025 (Part 42) :1992            | mg/L | <0.02     | 1.5       |
| 14 | Cyanide (as CN)                                          | Clause No.2 of IS 3025 (Part 27) :1986            | mg/L | <0.02     | 0.05      |
| 15 | Fluoride (as F)                                          | APHA 23 <sup>rd</sup> Edition (4500 F D) : 2017   | mg/L | 1.2       | 1.5       |
| 16 | Free Residual Chlorine (RFC)                             | APHA 23 <sup>rd</sup> Edition (4500 -Cl G) : 2017 | mg/L | <0.1      | Min 1.0   |
| 17 | Iron (as Fe)                                             | Clause No.7 of IS 3025 (Part 53) :2003            | mg/L | <0.05     | 1.0       |
| 18 | Lead (as Pb)                                             | Clause No.8 of IS 3025 (Part 47) :1994            | mg/L | <0.01     | 0.01      |
| 19 | Magnesium (as Mg)                                        | Clause No.6 of IS 3025 (Part 46) :1994            | mg/L | 23        | 100       |
| 20 | Manganese (as Mn)                                        | Clause No.6 of IS 3025 (Part 59) :2006            | mg/L | <0.01     | 0.3       |
| 21 | Mercury (as Hg)                                          | Clause No.5 of IS 3025 (Part 48) :1994            | mg/L | <0.001    | 0.001     |
| 22 | Molybdenum (as Mo)                                       | APHA 23 <sup>rd</sup> Edition (3500 Mo) : 2017    | mg/L | <0.05     | 0.07      |
| 23 | Nickel (as Ni)                                           | Clause No.7 of IS 3025 (Part 54) :2003            | mg/L | <0.02     | 0.02      |
| 24 | Nitrate (as NO <sub>3</sub> )                            | Clause No.3.3 of IS 3025 (Part 34) :1988          | mg/L | 3.9       | 45        |
| 25 | Odour                                                    | IS 3025 (Part 05) : 2018                          | --   | Agreeable | Agreeable |
| 26 | pH value @ 25°C                                          | Clause No.2 of IS 3025 (Part 11) :1983            | No.  | 7.3       | 6.5-8.5   |
| 27 | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | Clause No.6 of IS 3025 (Part 43) :1992            | mg/L | <0.001    | 0.002     |
| 28 | Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )       | Clause No.8.1 of IS 3025 (Part 23) : 1986         | mg/L | Nil       | NA        |
| 29 | Selenium (as Se)                                         | Clause No.6 of IS 3025 (Part 56) :2003            | mg/L | <0.01     | 0.01      |
| 30 | Silver (as Ag)                                           | Annex J of IS 13428 :2005                         | mg/L | <0.01     | 0.1       |
| 31 | Sulphates (as SO <sub>4</sub> )                          | Clause No.2 of IS 3025 (Part 24) :1986            | mg/L | 175       | 400       |

Disclaimer : 1.This test report shall not be reproduce in full or part without the written approval of the Laboratory.

2.The test results relate only to the test item tested and results apply to the sample "as received conditions".

3.This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.

4.The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.

5.This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.

6.Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.

7.This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.

8.Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.

9.(BDL) - Below Detectable Limit; (DL) - Detectable Limit; (MU) - Measurement Uncertainty; (NA) - Not Applicable; (CFU) - Colony Forming Unit.

10.No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.

11. ( # ) Mark indicates the tests are subcontracted to other accredited laboratory.



Lab: No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 010.

B.O. No.4/6-26, Amar Jothi Jai Nagar, Kannampalayam, Sullur, Coimbatore - 641 402. B.O. No.22/33A Second Street, Ram Nagar, Tiruppur - 641 602.

**TEST REPORT**

Page 3 of 3

Report / ULR No : TC6932-23-0-00004918-F

|    |                                          |                                              |      |               |           |
|----|------------------------------------------|----------------------------------------------|------|---------------|-----------|
| 32 | Sulphide (as H <sub>2</sub> S)           | Clause No.3 of IS 3025<br>(Part 29) :1986    | mg/L | <0.05         | 0.05      |
| 33 | Taste                                    | IS 3025 (Part 8) : 1984                      | --   | Not Conducted | Agreeable |
| 34 | Total Alkalinity (as CaCO <sub>3</sub> ) | IS 3025 (Part 23) :1986                      | mg/L | 362           | 600       |
| 35 | Total Arsenic (as As)                    | Clause No.2 of IS<br>3025<br>(Part37) : 1988 | mg/L | <0.005        | 0.01      |
| 36 | Total Chromium (as Cr)                   | Clause No.7 of IS 3025<br>(Part52) : 2003    | mg/L | <0.05         | 0.05      |
| 37 | Total Dissolved Solids                   | IS 3025 (Part 16) :1984                      | mg/L | 974           | 2000      |
| 38 | Total Hardness (as CaCO <sub>3</sub> )   | Clause No.5 of IS 3025<br>(Part 21) :2009    | mg/L | 427           | 600       |
| 39 | Turbidity                                | IS 3025 (Part 10) :1984                      | NTU  | <0.1          | 5.0       |
| 40 | Zinc (as Zn)                             | Clause No.6 of IS 3025<br>(Part 49) :1994    | mg/L | <0.05         | 15        |

**Statement of Conformity:** The concentration of the parameters tested in the above sample is within the prescribed permissible limits of potable drinking water quality standard of IS: 10500: 2012 tolerance limits, except S.No. 1 & 33.

&lt;-- End of Report --&gt;

Report Verified by

Technical Personnel

For EXCELLENCE LABORATORY

Authorized Signatory

**R.REVATHI**  
 Technical Manager

**T. KARTHIKEYAN**  
 Head - Laboratory


Disclaimer : 1.This test report shall not be reproduce in full or part without the written approval of the Laboratory.  
 2.The test results relate only to the test item tested and results apply to the sample "as received conditions".  
 3.This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.  
 4.The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.  
 5.This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.  
 6.Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.  
 7.This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.  
 8.Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.  
 9.(BDL) - Below Detectable Limit; (DL) :- Detectable Limit; (MU) - Measurement Uncertainty; (NA) - Not Applicable; (CFU) - Colony Forming Unit.  
 10.No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.  
 11. ( # ) Mark indicates the tests are subcontracted to other accredited laboratory.





## TEST REPORT

Page 1 of 3

### GROUND WATER ANALYSIS

|                                  |                                                                                                                                                                       |                          |                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|
| Report / ULR No :                | TC6932-23-0-00004917-F                                                                                                                                                | Report Date :            | 13.09.2023                                                                          |
| Customer Name & Address :        | M/S. Craftsman Automation Limited – Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                          |  |
| Sample Description :             | Ground Water                                                                                                                                                          | Sample Reference No :    | EL-NL-GW-15-09-2023                                                                 |
| Sample Drawn By :                | Customer                                                                                                                                                              | Sample Collected Date :  | 07.09.2023                                                                          |
| Sampling Time :                  | --                                                                                                                                                                    | Sample Received on :     | 08.09.2023                                                                          |
| Qty of Sample Received :         | 2 Liter (Approximately)                                                                                                                                               | Test Commenced on :      | 08.09.2023                                                                          |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :      | 13.09.2023                                                                          |
| Sampling Environment Condition : | -                                                                                                                                                                     | Sampling Method / Plan : | -                                                                                   |
| Sample Mark :                    | Bore Well Water - 2 (Old - 360)                                                                                                                                       |                          |                                                                                     |
| Instruments Used for Sampling :  | --                                                                                                                                                                    |                          |                                                                                     |

| No                        | Name of the Test                      | Test Method                                               | Units                     | Results | Max. Permissible Limits of IS:10500:2012 |
|---------------------------|---------------------------------------|-----------------------------------------------------------|---------------------------|---------|------------------------------------------|
| <b>Biological Testing</b> |                                       |                                                           |                           |         |                                          |
| 1                         | Coliforms Bacteria                    | IS 15185 : 2016                                           | Present/<br>Absent/ 100mL | Present | Absent                                   |
| 2                         | Escherichia coli                      | IS 15185 : 2016                                           | Present/<br>Absent/ 100mL | Absent  | Absent                                   |
| <b>Chemical Testing</b>   |                                       |                                                           |                           |         |                                          |
| 3                         | Aluminium (as Al)                     | Clause No.5 of IS 3025 (Part 55) :2003                    | mg/L                      | <0.02   | 0.2                                      |
| 4                         | Ammonia (as Total NH <sub>3</sub> -N) | Clause No.2.5 of IS 3025 (Part 34) :1988                  | mg/L                      | <0.1    | 0.5                                      |
| 5                         | Anionic Detergents (as MBAS)          | Annex K of IS 13428 :2005                                 | mg/L                      | <0.01   | 1.0                                      |
| 6                         | Barium (as Ba)                        | Annex F of IS 13428 :2005                                 | mg/L                      | <0.1    | 0.7                                      |
| 7                         | Boron (as B)                          | Clause No.6 of IS 3025 (Part 57) :2005                    | mg/L                      | <0.1    | 1.0                                      |
| 8                         | Cadmium (as Cd)                       | Clause No.6 of IS 3025 (Part 41) :1992                    | mg/L                      | <0.003  | 0.003                                    |
| 9                         | Calcium (as Ca)                       | Clause No.5 of IS 3025 (Part 40) :1991                    | mg/L                      | 246     | 200                                      |
| 10                        | Chloramines (as Cl <sub>2</sub> )     | APHA 23 <sup>rd</sup> Edition ,4500-Cl <sub>2</sub> :1998 | mg/L                      | <0.1    | 4.0                                      |
| 11                        | Chlorides (as Cl)                     | Clause No.2 of IS 3025 (Part 32) :1988                    | mg/L                      | 421     | 1000                                     |

Disclaimer : 1.This test report shall not be reproduce in full or part without the written approval of the Laboratory.

2.The test results relate only to the test item tested and results apply to the sample "as received conditions".

3.This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.

4.The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.

5.This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.

6.Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.

7.This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.

8.Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.

9.(BDL) - Below Detectable Limit; (DL) - Detectable Limit; (MU) - Measurement Uncertainty; (NA) - Not Applicable; (CFU) - Colony Forming Unit.

10.No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.

11. ( # ) Mark indicates the tests are subcontracted to other accredited laboratory.



**TEST REPORT**

Page 2 of 3

Report / ULR No : TC6932-23-0-00004917-F

|    |                                                          |                                                   |      |           |           |
|----|----------------------------------------------------------|---------------------------------------------------|------|-----------|-----------|
| 12 | Colour                                                   | Clause No.4 of IS 3025<br>(Part 04) :2021         | CU   | <1.0      | 15        |
| 13 | Copper (as Cu)                                           | Clause No.6 of IS 3025<br>(Part 42) :1992         | mg/L | <0.02     | 1.5       |
| 14 | Cyanide (as CN)                                          | Clause No.2 of IS 3025<br>(Part 27) :1986         | mg/L | <0.02     | 0.05      |
| 15 | Fluoride (as F)                                          | APHA 23 <sup>rd</sup> Edition (4500 F D) : 2017   | mg/L | 0.88      | 1.5       |
| 16 | Free Residual Chlorine (RFC)                             | APHA 23 <sup>rd</sup> Edition (4500 -Cl G) : 2017 | mg/L | <0.1      | Min 1.0   |
| 17 | Iron (as Fe)                                             | Clause No.7 of IS 3025<br>(Part 53) :2003         | mg/L | <0.05     | 1.0       |
| 18 | Lead (as Pb)                                             | Clause No.8 of IS 3025<br>(Part 47) :1994         | mg/L | <0.01     | 0.01      |
| 19 | Magnesium (as Mg)                                        | Clause No.6 of IS 3025<br>(Part 46) :1994         | mg/L | 36        | 100       |
| 20 | Manganese (as Mn)                                        | Clause No.6 of IS 3025<br>(Part 59) :2006         | mg/L | <0.01     | 0.3       |
| 21 | Mercury (as Hg)                                          | Clause No.5 of IS 3025<br>(Part 48) :1994         | mg/L | <0.001    | 0.001     |
| 22 | Molybdenum (as Mo)                                       | APHA 23 <sup>rd</sup> Edition (3500 Mo) : 2017    | mg/L | <0.05     | 0.07      |
| 23 | Nickel (as Ni)                                           | Clause No.7 of IS 3025<br>(Part 54) :2003         | mg/L | <0.02     | 0.02      |
| 24 | Nitrate (as NO <sub>3</sub> )                            | Clause No.3.3 of IS 3025<br>(Part 34) :1988       | mg/L | 14        | 45        |
| 25 | Odour                                                    | IS 3025 (Part 05) : 2018                          | --   | Agreeable | Agreeable |
| 26 | pH value @ 25°C                                          | Clause No.2 of IS 3025<br>(Part 11) :1983         | No.  | 7.1       | 6.5-8.5   |
| 27 | Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH) | Clause No.6 of IS 3025<br>(Part 43) :1992         | mg/L | <0.001    | 0.002     |
| 28 | Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )       | Clause No.8.1 of IS 3025<br>(Part 23) : 1986      | mg/L | Nil       | NA        |
| 29 | Selenium (as Se)                                         | Clause No.6 of IS 3025<br>(Part 56) :2003         | mg/L | <0.01     | 0.01      |
| 30 | Silver (as Ag)                                           | Annex J of IS 1342 :2003                          | mg/L | <0.01     | 0.1       |
| 31 | Sulphates (as SO <sub>4</sub> )                          | Clause No.2 of IS 3025<br>(Part 24) :1986         | mg/L | 320       | 400       |

Disclaimer : 1.This test report shall not be reproduce in full or part without the written approval of the Laboratory.

2.The test results relate only to the last item tested and results apply to the sample "as received conditions".

3.This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.

4.The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.

5.This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.

6.Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.

7.This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.

8.Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.

9.(BDL) - Below Detectable Limit; (DL) - Detectable Limit; (MU) - Measurement Uncertainty; (NA) - Not Applicable; (CFU) - Colony Forming Unit.

10.No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.

11. ( # ) Mark indicates the tests are subcontracted to other accredited laboratory.



Lab: No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 010.

B.O. No.4/6-26, Amar Jothi Jai Nagar, Kannampalayam, Sular, Coimbatore - 641 402. S.O. No.22/33A Second Street, Ram Nagar, Tiruppur - 641 602.



**EXCELLENCE**  
**LABORATORY**  
KNOW THE UNKNOWN

TM

ISO/IEC 17025:2017 Quality Management System  
Implemented & NABL Accredited Laboratory  
For Food & Environmental (Chemical & Biological)  
Testing Service vide Certificate No. TC-6932

info@excellencelaboratory.com

www.excellencelaboratory.com 0452-4506252



TC-6932

## TEST REPORT

Page 3 of 3

Report / ULR No : TC6932-23-0-00004917-F

|    |                                          |                                           |      |               |           |
|----|------------------------------------------|-------------------------------------------|------|---------------|-----------|
| 32 | Sulphide (as H <sub>2</sub> S)           | Clause No.3 of IS 3025<br>(Part 29) :1986 | mg/L | <0.05         | 0.05      |
| 33 | Taste                                    | IS 3025 (Part 8) : 1984                   | --   | Not Conducted | Agreeable |
| 34 | Total Alkalinity (as CaCO <sub>3</sub> ) | IS 3025 (Part 23) :1986                   | mg/L | 340           | 600       |
| 35 | Total Arsenic (as As)                    | Clause No.2 of IS 3025<br>(Part37) : 1988 | mg/L | <0.005        | 0.01      |
| 36 | Total Chromium (as Cr)                   | Clause No.7 of IS 3025<br>(Part52) : 2003 | mg/L | <0.05         | 0.05      |
| 37 | Total Dissolved Solids                   | IS 3025 (Part 16) :1984                   | mg/L | 1320          | 2000      |
| 38 | Total Hardness (as CaCO <sub>3</sub> )   | Clause No.5 of IS 3025<br>(Part 21) :2009 | mg/L | 762           | 600       |
| 39 | Turbidity                                | IS 3025 (Part 10) :1984                   | NTU  | <0.1          | 5.0       |
| 40 | Zinc (as Zn)                             | Clause No.6 of IS 3025<br>(Part 49) :1994 | mg/L | <0.05         | 15        |

**Statement of Conformity:** The concentration of the parameters tested in the above sample is within the prescribed permissible limits of potable drinking water quality standard of IS: 10500: 2012 tolerance limits, except S.No. 1, 9, 33 & 38.

<- End of Report ->

Report Verified by

*R. Revathi*

Technical Personnel

For EXCELLENCE LABORATORY

*T. Karthikeyan*

Authorized Signatory

**R.REVATHI**  
Technical Manager



**T. KARTHIKEYAN**  
Head - Laboratory



Disclaimer : 1.This test report shall not be reproduce in full or part without the written approval of the Laboratory.

2.The test results relate only to the test item tested and results apply to the sample "as received conditions".

3.This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.

4.The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.

5.This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.

6.Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.

7.This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.

8.Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.

9.(BDL) - Below Detectable Limit; (DL) - Detectable Limit; (MU) - Measurement Uncertainty; (NA) - Not Applicable; (CFU) - Colony Forming Unit.

10.No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.

11. ( # ) Mark indicates the tests are subcontracted to other accredited laboratory.



Lab: No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 010.

B.O. No.4/6-26, Amar Jothi Jai Nagar, Kannampalayam, Sullur, Coimbatore - 641 402. B.O: No.22/33A Second Street, Ram Nagar, Tiruppur - 641 602.



**AUTHORISATION No. 25HFZ68274818    dated 26/06/2025**

**Proceeding No. JCEE-M/CBZ/TNPCB/F.4099CBS/HWA/OL/CBS/2025 dated 26/06/2025**

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI, S.F.No. 77/1, 77/2 Part, 80/1A, 80/1B, 80/2A, 80/2B, 80/2C, 80/2D, 93 Part, 96 Part, 97/3 Part, KODAVADI Village, KINATHUKADAVU Taluk, Coimbatore District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg. (Industry User ID- O23CBS56341561)

Ref: 1. Unit's application No. 68274818 for the authorisation under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 through OCMMS dated 11.06.2025  
2. HWA- IR.No. 4099CBS/HWA/OL/DEE/CBS/2025 dated 21/06/2025

**FORM 2**

**[See rule 6 (2)]**

**FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES**

1. Number of authorization: 25HFZ68274818 and dated : 26/06/2025
2. Vice-President Admin.& H.R.D. of M/s. CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI is hereby granted an Authorisation based on the enclosed signed Inspection report for Generation, Collection, Storage and Disposal of hazardous or other wastes or both on the premises situated at S.F.No. 77/1, 77/2 Part, 80/1A, 80/1B, 80/2A, 80/2B, 80/2C, 80/2D, 93 Part, 96 Part, 97/3 Part, KODAVADI Village, KINATHUKADAVU Taluk, Coimbatore District.

| Sl No | Schedule / Name of the Processes                                                                                            | Name of Hazardous Waste (with category No)                                         | Quantity     | Activities for which Authorization is issued                                                                                                                                                          |
|-------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications | 5.1-Used or spent oil                                                              | 5.0 KL/Annum | Generation, Collection, Storage and Disposal to the TNPCB authorized Recycling facility of M/s. King Industry, Madurai District (Recyclable)                                                          |
| 2     | Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications | 5.2-Wastes or residues containing oil                                              | 0.2 T/Annum  | Generation, Collection, Storage and Disposal to the TNPCB Authorised Pre-processing facility of M/s. Sri Enviro Tech System, Coimbatore District for Co-incineration in the Cement Kiln (Incinerable) |
| 3     | Schedule I /33. Handling of hazardous chemicals and wastes                                                                  | 33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes | 200 T/Annum  | Generation, Collection, Storage and Disposal to the TNPCB Authorised Pre-processing facility of M/s. Sri Enviro Tech System, Coimbatore District (Recyclable)                                         |

3. This authorization shall be valid for a period upto 31/03/2030.

**The Authorization is issued subject to the following general and special conditions annexed.**

#### **A. GENERAL CONDITIONS OF AUTHORIZATION**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this Authorisation.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire ,etc and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the CPCB guidelines on “Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty”.
7. It is the duty of the authorized person to take prior permission of Tamil Nadu Pollution Control Board to close down the facility.
8. The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The Hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of Authorisation.
11. The importer or Exporter shall bear the cost of import or export or mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.
14. Annual returns shall be filed by June 30th for the period ending 31st March of the previous financial year.

#### **B. SPECIFIC CONDITIONS - HW Generator**

1. The occupier/generator shall be responsible for safe and environmentally sound management of hazardous and other wastes.
2. The occupier shall follow the following steps for the management of hazardous and other wastes. (a) prevention (b) minimization (c) reuse (d) recycling (e) recovery, utilisation including co-processing and (f) safe disposal
3. The occupier shall take all the steps while managing hazardous and other wastes - (a) To contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) To provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.
4. The occupier shall store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection:
5. The hazardous and other wastes shall be stored temporally in an isolated area earmarked for the purpose within the occupier’s premises (it shall not be accessible to rain water) till scientific disposal. The storage area shall be fenced properly and a sign of danger shall be placed at the storage site.
6. The containers holding the hazardous and other wastes shall be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation. Only properly cleaned containers shall be used for storage of hazardous and other wastes.
7. The occupier handling hazardous or other wastes shall maintain records of such operations of generation, handling, storage and disposal as per Form 3.
8. The hazardous and other wastes generated in the establishment of the occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.

9. The occupier handling hazardous or other wastes shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time
10. The labelling of package of hazardous or other wastes shall be done as per Form 8. The label shall be of non-washable material, weather proof and easily visible.
11. The hazardous and other wastes shall be transported from the occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.
12. The transport of the hazardous and other wastes shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard..
13. The occupier shall provide the transporter with the relevant information in Form 9, regarding the hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the hazardous and other wastes containers as per Form 8
14. The authorisation for transport shall be obtained either by the sender or the receiver on whose behalf the transport is being arranged.
15. The transporter/sender of the hazardous and other wastes shall prepare and maintain manifest in Form 10.
16. The occupier or the operator or the transporter shall immediately intimate TNPCB through telephone, e-mail about the accident and subsequently send a report in Form 11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation
17. The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.
18. The occupier shall be liable for all damages caused to the environment due to improper handling and management of the hazardous and other wastes.
19. The occupier handling hazardous and other wastes shall submit annual returns containing the details specified in Form 4 to TNPCB on or before the 30th day of June of every year for the preceding period April to March.
20. Any increase in quantity of handling of hazardous and other wastes, any change in category of hazardous and other wastes and any change in method of handling operations shall be brought to the notice of the TNPCB and fresh authorization shall be obtained.

#### **ADDITIONAL SPECIFIC CONDITIONS**

1. The unit shall possess valid consent at all times.
2. The unit shall possess valid agreement with the recycler/pre-processor/TSDF at all times.
3. The unit shall ensure that the hazardous waste categories 5.1 – Used/Spent oil shall be disposed to the unit of M/s. King Industry, Madurai District as per the activities for which this Authorization is issued.
4. The unit shall ensure that the hazardous waste categories 5.2 – Wastes or residues containing oil and 33.1- Empty barrels/containers /liners contaminated with hazardous chemicals /wastes shall be disposed for the disposal of hazardous waste of categories as per the activities for which this Authorization is issued.
5. The unit shall dispose the accumulated quantity of hazardous wastes within one month on receipt of this authorisation.
6. The Hazardous wastes shall be disposed only with manifest and the same shall be endorsed by the dispatcher, transporter and receiver of Hazardous waste.
7. The unit shall submit the annual returns regarding handling of hazardous wastes in Form IV under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to the TNPCB, on or before 30th June of every year for the preceding period April to March.
8. The unit shall furnish the endorsed copy of the manifest maintained in Form-10 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 as amended to TNPCB.
9. The hazardous waste shall be stored in a compatible container on an impervious platform in closed shed to prevent pollution of ground water and surface soil.
10. The unit shall not store hazardous waste outside the premises.
11. The unit shall dewater the sludge before dispose into the TSDF/Cement Plants/Pre-Processing Facility.
12. The unit shall avoid spillage of hazardous waste in the unit's premises.

13. The unit shall ensure that there shall be no leakage or spillage of waste from the container during transportation of waste.
14. The unit shall generate and dispose the hazardous wastes within the authorized quantity.
15. The unit shall adhere to the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016
16. The unit shall maintain the Hazardous waste display Boards in front of the factory clearly indicating the same regularly as mandated by the Hon'ble Supreme Court order dated 14.10.2003.
17. The unit shall maintain FORM III of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 in the premises.
18. The unit shall furnish the FORM IV of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 to the TNPCB, on or before thirtieth June of every year.
19. The unit shall ensure that the transport container shall be labelled as prescribed in Form 8 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
20. The unit shall send the Transport Emergency (TREM) card in Form 9 with the transporter during the transportation of Hazardous wastes.
21. The unit shall furnish Emergency response plan(ERP) which should address procedures for dealing with emergency situations (viz. Spillage or release or fire) as specified in the guidelines of CPCB. Such ERP shall comprise the following, but not limited to:
  - Containing and controlling incidents so as to minimize the effects and to limit danger to the persons, environment and property;
  - Implementing the measures necessary to protect persons and the environment;
  - Description of the actions which should be taken to control the conditions at events and to limit their consequences, including a description of the safety equipment and resources available;
  - Arrangements for training staff in the duties which they are expected to perform;
  - Arrangements for informing concerned authorities and emergency services; and
  - Arrangements for providing assistance with off-site mitigatory action.
22. The unit shall reduce the hazardous waste generation year after year.
23. The unit shall take effective raw material and water conversion measures and cleaner production measures to minimize the generation of hazardous waste from time to time.
24. The unit shall follow the hazardous waste manifest system in form 10 while transportation of the Hazardous wastes.
25. The unit shall follow the guidelines and criteria for handling hazardous wastes prescribed by the CPCB from time to time.

**To**

Vice-President Admin.& H.R.D.

CRAFTSMAN AUTOMATION LIMITED UNIT-1 KOTHAVADI

S.F No. 77/1, 77/2 Part, 80/1, Kothavadi Vilage, Kinathukadavu Taluk, Coimbatore District

Pin:642109

**Copy to:**

1. Copy submitted to the Member Secretary, Tamil Nadu Pollution Control Board, Chennai for favour of kind information
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, COIMBATORE SOUTH.

-----





**EXCELLENCE**  
**LABORATORY**  
KNOW THE UNKNOWN

TM

ISO/IEC 17025:2017 Quality Management System  
Implemented & NABL Accredited Laboratory  
For Food & Environmental (Chemical & Biological)  
Testing Service vide Certificate No. TC-13674

info@excellencelaboratory.com  
www.excellencelaboratory.com



TC-13674

## TEST REPORT

Page 1 of 1

### AMBIENT NOISE LEVEL MONITORING

|                                    |                                                                                                                                                                       |                                                                                     |                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|
| Report / URL No :                  | TC13674-25-0-000004176-F                                                                                                                                              | Report Date :                                                                       | 22.03.2025          |
| Customer Name & Address :          | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                     |
| Sample Description :               | Ambient Noise                                                                                                                                                         | Sample Reference No :                                                               | EL-NL-AN-55-03-2025 |
| Monitoring by :                    | Laboratory                                                                                                                                                            | Monitoring Date :                                                                   | 20.03.2025          |
| Sampling Time :                    | Day Time (6.00 a.m - 10.00 p.m)                                                                                                                                       | Data Received on :                                                                  | 21.03.2025          |
| Sampling Environmental Condition : | Temperature:33.7°C, RH:54.7%                                                                                                                                          |                                                                                     |                     |
| Sampling Method / Plan :           | IS 9989 : 1981                                                                                                                                                        |                                                                                     |                     |
| Instruments Used for Sampling :    | 5 in 1 - EL-IT-F01 with calibration validity due on 01.06.2025                                                                                                        |                                                                                     |                     |

| S. No | Name of the Locations | Monitoring Distance in M | Monitoring Time | Minimum dB(A) | Maximum dB(A) | L Equivalent dB(A) |
|-------|-----------------------|--------------------------|-----------------|---------------|---------------|--------------------|
| 1     | Near Gas Plant        | Site                     | 10.16 AM        | 53.9          | 54.1          | 53.2               |
| 2     | PPD Back Side         | Site                     | 10.21 Am        | 48.5          | 49.3          | 48.6               |
| 3     | Near Security Gate    | Site                     | 10.30 AM        | 48.2          | 50.5          | 49.3               |
| 4     | Near Power House      | Site                     | 10.33 AM        | 65.9          | 67.2          | 66.4               |

|                                                                     |              |
|---------------------------------------------------------------------|--------------|
| Permissible Limit for Noise as per the TNPCB Norms, 2023 (Day Time) | Maximum 75.0 |
|---------------------------------------------------------------------|--------------|

**Statement of Conformity:** The sound levels tested in the above locations are within the prescribed limits of **TNPCB** tolerance limits of 2023.

<-- End of Report -->

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
Technical Manager

**R.S.DINAKARAN**  
Quality Manager



#### Disclaimer :

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**TEST REPORT**

Page 1 of 1

**AMBIENT NOISE LEVEL MONITORING**

|                                           |                                                                                                                                                                              |                              |                                                                                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| <b>Report / URL No :</b>                  | TC13674-25-0-000004177-F                                                                                                                                                     | <b>Report Date :</b>         | 22.03.2025                                                                          |
| <b>Customer Name &amp; Address :</b>      | <b>M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)</b><br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                              |  |
| <b>Sample Description :</b>               | Ambient Noise                                                                                                                                                                | <b>Sample Reference No :</b> | EL-NL-AN-56-03-2025                                                                 |
| <b>Monitoring by :</b>                    | Laboratory                                                                                                                                                                   | <b>Monitoring Date :</b>     | 20.03.2025                                                                          |
| <b>Sampling Time :</b>                    | Night Time (10.00 p.m - 6.00 a.m)                                                                                                                                            | <b>Data Received on :</b>    | 21.03.2025                                                                          |
| <b>Sampling Environmental Condition :</b> | Temperature:33.7°C, RH:54.7%                                                                                                                                                 |                              |                                                                                     |
| <b>Sampling Method / Plan :</b>           | IS 9989 : 1981                                                                                                                                                               |                              |                                                                                     |
| <b>Instruments Used for Sampling :</b>    | 5 in 1 - EL-IT-F01 with calibration validity due on 01.06.2025                                                                                                               |                              |                                                                                     |

| S. No | Name of the Locations | Monitoring Distance in M | Monitoring Time | Minimum dB(A) | Maximum dB(A) | L Equivalent dB(A) |
|-------|-----------------------|--------------------------|-----------------|---------------|---------------|--------------------|
| 1     | Near Gas Plant        | Site                     | 10.30 PM        | 45.2          | 47.9          | 46.3               |
| 2     | PPD Back Side         | Site                     | 10.34 PM        | 43.2          | 46.6          | 45.1               |
| 3     | Near Security Gate    | Site                     | 10.41 PM        | 48.6          | 50.8          | 49.7               |
| 4     | Near Power House      | Site                     | 10.52 PM        | 56.5          | 58.1          | 57.6               |

Permissible Limit for Noise as per the TNPCB Norms, 2023 (Night Time) Maximum 70.0

**Statement of Conformity:** The sound levels tested in the above locations are within the prescribed limits of **TNPCB** tolerance limits of 2023.

<-- End of Report -->

|                                                                                                                                                |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Verified by</b><br><br><b>Technical Personnel</b> | <b>For EXCELLENCE LABORATORY</b><br><br><b>Authorized Signatory</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

Excellence Laboratory

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**SOURCE NOISE LEVEL MONITORING**

|                                           |                                                                                                                                                                              |                              |                                                                                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| <b>Report / URL No :</b>                  | TC13674-25-0-000004179-F                                                                                                                                                     | <b>Report Date :</b>         | 22.03.2025                                                                          |
| <b>Customer Name &amp; Address :</b>      | <b>M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)</b><br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                              |  |
| <b>Sample Description :</b>               | Source Noise                                                                                                                                                                 | <b>Sample Reference No :</b> | EL-NL-SN-70-03-2025                                                                 |
| <b>Monitoring by :</b>                    | Laboratory                                                                                                                                                                   | <b>Monitoring Date :</b>     | 20.03.2025                                                                          |
| <b>Sampling Time :</b>                    | Day Time (6.00 a.m - 10.00 p.m)                                                                                                                                              | <b>Data Received on :</b>    | 21.03.2025                                                                          |
| <b>Sampling Environmental Condition :</b> | Temperature:34.9 °C, RH:54.8%                                                                                                                                                |                              |                                                                                     |
| <b>Sampling Method / Plan :</b>           | IS 4758 : 1968                                                                                                                                                               |                              |                                                                                     |
| <b>Instruments Used for Sampling :</b>    | 5 in 1 - EL-IT-F01 with calibration validity due on 01.06.2025                                                                                                               |                              |                                                                                     |

| S. No | Name of the Locations | Monitoring Distance in M | Monitoring Time | Minimum dB(A) | Maximum dB(A) | L Equivalent dB(A) |
|-------|-----------------------|--------------------------|-----------------|---------------|---------------|--------------------|
| 1     | Shot Blast Area       | Site                     | 11.10 AM        | 80.9          | 81.4          | 80.6               |
| 2     | Shake Out Area        | Site                     | 11.21 AM        | 77.4          | 78.2          | 77.6               |
| 3     | Silo Area             | Site                     | 11.14 AM        | 80.1          | 82.6          | 81.6               |
| 4     | Power House           | Site                     | 11.21 AM        | 63.6          | 65.3          | 64.9               |
| 5     | Melting Area          | Site                     | 11.44 AM        | 71.5          | 75.9          | 72.7               |

Permissible Limit for Noise as per the Factories Rules, 1950 Maximum 85.0

**Statement of Conformity:** The sound levels tested in the above locations are within the prescribed limits of **Factories Rules 1950** standard limits.

<-- End of Report -->

|                                                                                                                                                |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Verified by</b><br><br><b>Technical Personnel</b> | <b>For EXCELLENCE LABORATORY</b><br><br><b>Authorized Signatory</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**TEST REPORT**

Page 1 of 1

**SOURCE NOISE LEVEL MONITORING**

|                                           |                                                                                                                                                                              |                              |                                                                                     |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|
| <b>Report / URL No :</b>                  | TC13674-25-0-000004180-F                                                                                                                                                     | <b>Report Date :</b>         | 22.03.2025                                                                          |
| <b>Customer Name &amp; Address :</b>      | <b>M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)</b><br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                              |  |
| <b>Sample Description :</b>               | Source Noise                                                                                                                                                                 | <b>Sample Reference No :</b> | EL-NL-SN-71-03-2025                                                                 |
| <b>Monitoring by :</b>                    | Laboratory                                                                                                                                                                   | <b>Monitoring Date :</b>     | 20.03.2025                                                                          |
| <b>Sampling Time :</b>                    | Night Time (10.00 p.m - 6.00 a.m)                                                                                                                                            | <b>Data Received on :</b>    | 21.03.2025                                                                          |
| <b>Sampling Environmental Condition :</b> | Temperature:34.9°C, RH:54.8%                                                                                                                                                 |                              |                                                                                     |
| <b>Sampling Method / Plan :</b>           | IS 4758 : 1968                                                                                                                                                               |                              |                                                                                     |
| <b>Instruments Used for Sampling :</b>    | 5 in 1 - EL-IT-F01 with calibration validity due on 01.06.2025                                                                                                               |                              |                                                                                     |

| S. No | Name of the Locations | Monitoring Distance in M | Monitoring Time | Minimum dB(A) | Maximum dB(A) | L Equivalent dB(A) |
|-------|-----------------------|--------------------------|-----------------|---------------|---------------|--------------------|
| 1     | Shot Blast Area       | Site                     | 10.32 PM        | 77.1          | 79.3          | 78.6               |
| 2     | Shake Out Area        | Site                     | 10.44 PM        | 72.5          | 75.4          | 74.6               |
| 3     | Silo Area             | Site                     | 10.51 PM        | 78.6          | 80.9          | 79.9               |
| 4     | Power House           | Site                     | 10.36 PM        | 57.3          | 58.2          | 57.4               |
| 5     | Melting Area          | Site                     | 10.55 PM        | 66.8          | 67.2          | 66.9               |

Permissible Limit for Noise as per the Factories Rules, 1950

Maximum 85.0

**Statement of Conformity:** The sound levels tested in the above locations are within the prescribed limits of **Factories Rules 1950** standard limits.

<-- End of Report -->

|                                                                                                                                                |                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Verified by</b><br><br><b>Technical Personnel</b> | <b>For EXCELLENCE LABORATORY</b><br><br><b>Authorized Signatory</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are sub contracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**DG NOISE MONITORING**

|                                                                                                                                                |                                                                                                                                                                       |                                                                                                                                                          |                        |                      |                      |                           |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------|----------------------|---------------------------|-------------------------------------------------------------------------------------|
| <b>Report / URL No :</b>                                                                                                                       | TC13674-25-0-000004113-F                                                                                                                                              | <b>Report Date :</b>                                                                                                                                     | 21.03.2025             |                      |                      |                           |                                                                                     |
| <b>Customer Name &amp; Address :</b>                                                                                                           | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                                                                                                                                                          |                        |                      |                      |                           |  |
| <b>Sample Description :</b>                                                                                                                    | DG Noise                                                                                                                                                              | <b>Sample Reference No :</b>                                                                                                                             | EL-NL-DN-15-03-2025    |                      |                      |                           |                                                                                     |
| <b>Monitoring by :</b>                                                                                                                         | Laboratory                                                                                                                                                            | <b>Monitoring Date :</b>                                                                                                                                 | 19.03.2025             |                      |                      |                           |                                                                                     |
| <b>Sampling Time :</b>                                                                                                                         | Day Time (6.00 a.m - 10.00 p.m)                                                                                                                                       | <b>Data Received on :</b>                                                                                                                                | 20.03.2025             |                      |                      |                           |                                                                                     |
| <b>Sampling Environmental Condition :</b>                                                                                                      | Temperature:33.7°C, RH:50.9%                                                                                                                                          |                                                                                                                                                          |                        |                      |                      |                           |                                                                                     |
| <b>Sampling Method / Plan :</b>                                                                                                                | IS 9989 : 1981                                                                                                                                                        |                                                                                                                                                          |                        |                      |                      |                           |                                                                                     |
| <b>Instruments Used for Sampling :</b>                                                                                                         | 5 in 1 - EL-IT-F01 with calibration validity due on 01.06.2025                                                                                                        |                                                                                                                                                          |                        |                      |                      |                           |                                                                                     |
| <b>No</b>                                                                                                                                      | <b>Name of the Locations</b>                                                                                                                                          | <b>Monitoring Distance in M</b>                                                                                                                          | <b>Monitoring Time</b> | <b>Minimum dB(A)</b> | <b>Maximum dB(A)</b> | <b>L Equivalent dB(A)</b> | <b>Loss of Insertion Noise</b>                                                      |
| 1                                                                                                                                              | DG 380 KVA (Open)                                                                                                                                                     | 1 Meter                                                                                                                                                  | 10.00AM-11.00AM        | 97.6                 | 99.5                 | 98.5                      | 26.9                                                                                |
| 2                                                                                                                                              | DG 380 KVA (Close)                                                                                                                                                    | 1 Meter                                                                                                                                                  | 10.00AM-11.00AM        | 70.2                 | 72.8                 | 71.6                      |                                                                                     |
| Permissible Limit for Loss of Insertion Noise as per the CPCB Norms                                                                            |                                                                                                                                                                       |                                                                                                                                                          |                        | Minimum 25.0         |                      |                           |                                                                                     |
| <b>Statement of Conformity: --</b>                                                                                                             |                                                                                                                                                                       |                                                                                                                                                          |                        |                      |                      |                           |                                                                                     |
| <-- End of Report -->                                                                                                                          |                                                                                                                                                                       |                                                                                                                                                          |                        |                      |                      |                           |                                                                                     |
| <b>Report Verified by</b><br><br><b>Technical Personnel</b> |                                                                                                                                                                       | <b>For EXCELLENCE LABORATORY</b><br><br><b>Authorized Signatory</b> |                        |                      |                      |                           |                                                                                     |

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**DG NOISE MONITORING**

|                                                                                                                                                |                                                                                                                                                                              |                                                                                                                                                         |                                                                                     |                      |                      |                           |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|----------------------|---------------------------|--------------------------------|
| <b>Report / URL No :</b>                                                                                                                       | TC13674-25-0-000004114-F                                                                                                                                                     | <b>Report Date :</b>                                                                                                                                    | 21.03.2025                                                                          |                      |                      |                           |                                |
| <b>Customer Name &amp; Address :</b>                                                                                                           | <b>M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)</b><br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                                                                                                                                                         |  |                      |                      |                           |                                |
| <b>Sample Description :</b>                                                                                                                    | DG Noise                                                                                                                                                                     | <b>Sample Reference No :</b>                                                                                                                            | EL-NL-DN-16-03-2025                                                                 |                      |                      |                           |                                |
| <b>Monitoring by :</b>                                                                                                                         | Laboratory                                                                                                                                                                   | <b>Monitoring Date :</b>                                                                                                                                | 19.03.2025                                                                          |                      |                      |                           |                                |
| <b>Sampling Time :</b>                                                                                                                         | Night Time (10.00 p.m - 6.00 a.m)                                                                                                                                            | <b>Data Received on :</b>                                                                                                                               | 20.03.2025                                                                          |                      |                      |                           |                                |
| <b>Sampling Environmental Condition :</b>                                                                                                      | Temperature:33.7°C, RH:50.9%                                                                                                                                                 |                                                                                                                                                         |                                                                                     |                      |                      |                           |                                |
| <b>Sampling Method / Plan :</b>                                                                                                                | IS 9989 : 1981                                                                                                                                                               |                                                                                                                                                         |                                                                                     |                      |                      |                           |                                |
| <b>Instruments Used for Sampling :</b>                                                                                                         | 5 in 1 - EL-IT-F01 with calibration validity due on 01.06.2025                                                                                                               |                                                                                                                                                         |                                                                                     |                      |                      |                           |                                |
| <b>No</b>                                                                                                                                      | <b>Name of the Locations</b>                                                                                                                                                 | <b>Monitoring Distance in M</b>                                                                                                                         | <b>Monitoring Time</b>                                                              | <b>Minimum dB(A)</b> | <b>Maximum dB(A)</b> | <b>L Equivalent dB(A)</b> | <b>Loss of Insertion Noise</b> |
| 1                                                                                                                                              | DG 380 KVA (Open)                                                                                                                                                            | 1 Meter                                                                                                                                                 | 10.00PM-11.00PM                                                                     | 96.8                 | 97.5                 | 96.9                      | 27.4                           |
| 2                                                                                                                                              | DG 380 KVA (Close)                                                                                                                                                           | 1 Meter                                                                                                                                                 | 10.00PM-11.00PM                                                                     | 69.4                 | 70.8                 | 69.5                      |                                |
| Permissible Limit for Loss of Insertion Noise as per the CPCB Norms                                                                            |                                                                                                                                                                              |                                                                                                                                                         |                                                                                     | Minimum 25.0         |                      |                           |                                |
| <b>Statement of Conformity: --</b>                                                                                                             |                                                                                                                                                                              |                                                                                                                                                         |                                                                                     |                      |                      |                           |                                |
| <-- End of Report -->                                                                                                                          |                                                                                                                                                                              |                                                                                                                                                         |                                                                                     |                      |                      |                           |                                |
| <b>Report Verified by</b><br><br><b>Technical Personnel</b> |                                                                                                                                                                              | <b>For EXCELLENCE LABORATORY</b><br><br><b>Authorized Signatory</b> |                                                                                     |                      |                      |                           |                                |

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**SOURCE NOISE LEVEL MONITORING**

|                                                                                                                                                          |                                                                                                                                                                       |                                 |                        |                      |                                                                                                                                                          |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Report / URL No :</b>                                                                                                                                 | TC13674-25-0-000012928-F                                                                                                                                              | <b>Report Date :</b>            | 30.08.2025             |                      |                                                                                                                                                          |                                                                                     |
| <b>Customer Name &amp; Address :</b>                                                                                                                     | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                                 |                        |                      |                                                                                                                                                          |  |
| <b>Sample Description :</b>                                                                                                                              | Source Noise                                                                                                                                                          | <b>Sample Reference No :</b>    | EL-NL-SN-66-08-2025    |                      |                                                                                                                                                          |                                                                                     |
| <b>Monitoring by :</b>                                                                                                                                   | Laboratory                                                                                                                                                            | <b>Monitoring Date :</b>        | 28.08.2025             |                      |                                                                                                                                                          |                                                                                     |
| <b>Sampling Time :</b>                                                                                                                                   | Day Time (6.00 a.m - 10.00 p.m)                                                                                                                                       | <b>Data Received on :</b>       | 29.08.2025             |                      |                                                                                                                                                          |                                                                                     |
| <b>Sampling Environmental Condition :</b>                                                                                                                | Temperature:33.1°C, RH:59.7%                                                                                                                                          |                                 |                        |                      |                                                                                                                                                          |                                                                                     |
| <b>Sampling Method / Plan :</b>                                                                                                                          | IS 4758 : 1968                                                                                                                                                        |                                 |                        |                      |                                                                                                                                                          |                                                                                     |
| <b>Instruments Used for Sampling :</b>                                                                                                                   | 5 in 1 Meter (ID No: EL-IT-F44) with calibration validity due on 01.12.2025                                                                                           |                                 |                        |                      |                                                                                                                                                          |                                                                                     |
| <b>S. No</b>                                                                                                                                             | <b>Name of the Locations</b>                                                                                                                                          | <b>Monitoring Distance in M</b> | <b>Monitoring Time</b> | <b>Minimum dB(A)</b> | <b>Maximum dB(A)</b>                                                                                                                                     | <b>L Equivalent dB(A)</b>                                                           |
| 1                                                                                                                                                        | Shot Blast Area                                                                                                                                                       | Site                            | 02.00PM-03.00PM        | 80.5                 | 82.8                                                                                                                                                     | 81.1                                                                                |
| 2                                                                                                                                                        | Shake Out Area                                                                                                                                                        | Site                            | 02.00PM-03.00PM        | 78.7                 | 81.9                                                                                                                                                     | 79.3                                                                                |
| 3                                                                                                                                                        | Silo Area                                                                                                                                                             | Site                            | 02.00PM-03.00PM        | 82.2                 | 84.0                                                                                                                                                     | 83.4                                                                                |
| 4                                                                                                                                                        | Power House                                                                                                                                                           | Site                            | 02.00PM-03.00PM        | 65.6                 | 68.3                                                                                                                                                     | 66.6                                                                                |
| 5                                                                                                                                                        | Melting Area                                                                                                                                                          | Site                            | 02.00PM-03.00PM        | 75.9                 | 78.4                                                                                                                                                     | 76.8                                                                                |
| Permissible Limit for Noise as per the Factories Rules, 1950                                                                                             |                                                                                                                                                                       |                                 |                        | Maximum 85.0         |                                                                                                                                                          |                                                                                     |
| <b>Statement of Conformity:</b> The sound levels tested in the above locations are within the prescribed limits of Factories Rules 1950 standard limits. |                                                                                                                                                                       |                                 |                        |                      |                                                                                                                                                          |                                                                                     |
| <-- End of Report -->                                                                                                                                    |                                                                                                                                                                       |                                 |                        |                      |                                                                                                                                                          |                                                                                     |
| <b>Report Verified by</b><br><br><b>Technical Personnel</b>           |                                                                                                                                                                       |                                 |                        |                      | <b>For EXCELLENCE LABORATORY</b><br><br><b>Authorized Signatory</b> |                                                                                     |

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer:**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02



**EXCELLENCE**  
**LABORATORY**  
KNOW THE UNKNOWN

TM

ISO/IEC 17025:2017 Quality Management System  
Implemented & NABL Accredited Laboratory  
For Food & Environmental (Chemical & Biological)  
Testing Service vide Certificate No. TC-13674

info@excellencelaboratory.com

www.excellencelaboratory.com



TC-13674

Page 1 of 1

## TEST REPORT

### SOURCE NOISE LEVEL MONITORING

|                                    |                                                                                                                                                                              |                       |                     |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|
| Report / URL No :                  | TC13674-25-0-000012929-F                                                                                                                                                     | Report Date :         | 30.08.2025          |
| Customer Name & Address :          | <b>M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)</b><br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                       |                     |
| Sample Description :               | Source Noise                                                                                                                                                                 | Sample Reference No : | EL-NL-SN-67-08-2025 |
| Monitoring by :                    | Laboratory                                                                                                                                                                   | Monitoring Date :     | 28.08.2025          |
| Sampling Time :                    | Night Time (10.00 p.m - 6.00 a.m)                                                                                                                                            | Data Received on :    | 29.08.2025          |
| Sampling Environmental Condition : | Temperature:33.1°C, RH:59.7%                                                                                                                                                 |                       |                     |
| Sampling Method / Plan :           | IS 4758 : 1968                                                                                                                                                               |                       |                     |
| Instruments Used for Sampling :    | 5 in 1 Meter (ID No: EL-IT-F44) with calibration validity due on 01.12.2025                                                                                                  |                       |                     |



| No | Name of the Locations | Monitoring Distance in M | Monitoring Time | Minimum dB(A) | Maximum dB(A) | L Equivalent dB(A) |
|----|-----------------------|--------------------------|-----------------|---------------|---------------|--------------------|
| 1  | Shot Blast Area       | Site                     | 10.00PM-11.00PM | 80.2          | 83.1          | 81.5               |
| 2  | Shake Out Area        | Site                     | 10.00PM-11.00PM | 80.3          | 82.5          | 81.4               |
| 3  | Silo Area             | Site                     | 10.00PM-11.00PM | 80.7          | 83.1          | 81.7               |
| 4  | Power House           | Site                     | 10.00PM-11.00PM | 61.1          | 65.6          | 62.6               |
| 5  | Melting Area          | Site                     | 10.00PM-11.00PM | 72.8          | 78.9          | 75.9               |

Permissible Limit for Noise as per the Factories Rules, 1950

Maximum 85.0

**Statement of Conformity:** The sound levels tested in the above locations are within the prescribed limits of Factories Rules 1950 standard limits.

<-- End of Report -->

|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|-----------------------------------------------|-------------------------------------------------------|

**R.REVATHI**  
Technical Manager

**R.S.DINAKARAN**  
Quality Manager



#### Disclaimer :

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

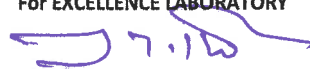
**SEWAGE WATER ANALYSIS**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000004115-F                                                                                                                                              | Report Date :                                                                       | 28.03.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Sewage Water                                                                                                                                                          | Sample Reference No :                                                               | EL-NL-WW-127-03-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 19.03.2025           |
| Sampling Time :                  | 10.00 AM - 12.00 PM                                                                                                                                                   | Sample Received on :                                                                | 20.03.2025           |
| Qty of Sample Received :         | 1 Liter (Approximately)                                                                                                                                               | Test Commenced on :                                                                 | 20.03.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 27.03.2025           |
| Sampling Environment Condition : | Temperature:29.2°C                                                                                                                                                    | Sampling Method / Plan :                                                            | EL-SOP-WRS-01 & 02   |
| Sample Mark :                    | Raw Sewage Water                                                                                                                                                      |                                                                                     |                      |
| Instruments Used for Sampling :  | --                                                                                                                                                                    |                                                                                     |                      |

| No                        | Name of the Test                                  | Test Method                             | Units       | Results |
|---------------------------|---------------------------------------------------|-----------------------------------------|-------------|---------|
| <b>Biological Testing</b> |                                                   |                                         |             |         |
| 1                         | Faecal Coliform (MPN)                             | IS 1622 : 1981                          | MPN / 100mL | 920     |
| <b>Chemical Testing</b>   |                                                   |                                         |             |         |
| 2                         | Biochemical Oxygen Demand (BOD) @ 27°C for 3 days | IS 3025 (Part 44) :2023                 | mg/L        | 17      |
| 3                         | pH Value @ 25°C                                   | IS 3025 (Part 11) : 2022                | No.         | 8.0     |
| 4                         | Total Phosphorous (as P)                          | Clause No.4 of IS 3025 (Part 31) : 1988 | mg/L        | 2.7     |
| 5                         | Total Suspended Solids (TSS) @ 105°C              | IS 3025 (Part 17) :1984                 | mg/L        | 15      |

Statement of Conformity:--

&lt;-- End of Report --&gt;

|                                                                                                                                  |  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**T. KARTHIKEYAN**  
 Head - Laboratory

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

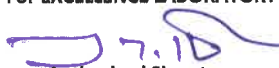
**SEWAGE WATER ANALYSIS**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000004116-F                                                                                                                                              | Report Date :                                                                       | 28.03.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Sewage Water                                                                                                                                                          | Sample Reference No :                                                               | EL-NL-WW-128-03-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 19.03.2025           |
| Sampling Time :                  | 10.00 AM - 12.00 PM                                                                                                                                                   | Sample Received on :                                                                | 20.03.2025           |
| Qty of Sample Received :         | 1 Liter (Approximately)                                                                                                                                               | Test Commenced on :                                                                 | 20.03.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 27.03.2025           |
| Sampling Environment Condition : | Temperature:29.7°C                                                                                                                                                    | Sampling Method / Plan :                                                            | EL-SOP-WRS-01 & 02   |
| Sample Mark :                    | STP Outlet Water                                                                                                                                                      |                                                                                     |                      |
| Instruments Used for Sampling :  | --                                                                                                                                                                    |                                                                                     |                      |

| No                        | Name of the Test                                  | Test Method                             | Units       | Results | Max. Permissible Limits of<br>TNPCB Std for Treated Sewage |
|---------------------------|---------------------------------------------------|-----------------------------------------|-------------|---------|------------------------------------------------------------|
| <b>Biological Testing</b> |                                                   |                                         |             |         |                                                            |
| 1                         | Faecal Coliform (MPN)                             | IS 1622 : 1981                          | MPN / 100mL | 7.1     | 1000                                                       |
| <b>Chemical Testing</b>   |                                                   |                                         |             |         |                                                            |
| 2                         | Biochemical Oxygen Demand (BOD) @ 27°C for 3 days | IS 3025 (Part 44) :2023                 | mg/L        | 5.4     | 30                                                         |
| 3                         | pH Value @ 25°C                                   | IS 3025 (Part 11) : 2022                | No.         | 6.3     | 6.5 - 9.0                                                  |
| 4                         | Total Phosphorous (as P)                          | Clause No.4 of IS 3025 (Part 31) : 1988 | mg/L        | 0.17    | NA                                                         |
| 5                         | Total Suspended Solids (TSS) @ 105°C              | IS 3025 (Part 17) :1984                 | mg/L        | 7.1     | 100                                                        |

**Statement of Conformity:** The concentration of the parameters tested in the above sample is within the prescribed limits of TNPCB tolerance limits of 2023.

&lt;-- End of Report --&gt;

|                                                                                                                                  |  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**T. KARTHIKEYAN**  
 Head - Laboratory

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**WASTE WATER ANALYSIS**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000004123-F                                                                                                                                              | Report Date :                                                                       | 28.03.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>Sf.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Waste Water                                                                                                                                                           | Sample Reference No :                                                               | EL-NL-WW-129-03-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 19.03.2025           |
| Sampling Time :                  | 10.00 AM - 12.00 PM                                                                                                                                                   | Sample Received on :                                                                | 21.03.2025           |
| Qty of Sample Received :         | 2 Liter (Approximately)                                                                                                                                               | Test Commenced on :                                                                 | 21.03.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 27.03.2025           |
| Sampling Environment Condition : | Temperature:28.9 °C                                                                                                                                                   | Sampling Method / Plan :                                                            | EL-SOP-WRS-01        |
| Sample Mark :                    | RO Reject Water (RO Plant)                                                                                                                                            |                                                                                     |                      |
| Instruments Used for Sampling :  | --                                                                                                                                                                    |                                                                                     |                      |

| S. No                   | Name of the Test                                   | Test Method                             | Units | Results |
|-------------------------|----------------------------------------------------|-----------------------------------------|-------|---------|
| <b>Chemical Testing</b> |                                                    |                                         |       |         |
| 1                       | Biochemical Oxygen Demand (BOD) at 27°C for 3 days | IS 3025 (Part 44) :2023                 | mg/L  | <2.0    |
| 2                       | Chemical Oxygen Demand (COD)                       | IS 3025 (Part 58): 2023                 | mg/L  | <4.0    |
| 3                       | Chlorides (as Cl <sup>-</sup> )                    | Clause No.2 of IS 3025 (Part 32) :1988  | mg/L  | 739     |
| 4                       | Dissolved Solids (Inorganic) @ 180°C               | IS 3025 (Part 16) : 2023                | mg/L  | 1810    |
| 5                       | Oil & Grease                                       | Clause No.5 of IS 3025 (Part 39) : 2021 | mg/L  | <4.0    |
| 6                       | pH value @ 25°C                                    | IS 3025 (Part 11) : 2022                | No.   | 8.0     |
| 7                       | Sulphates (as SO <sub>4</sub> )                    | IS 3025 (Part 43/Sec 1): 2022           | mg/L  | 302     |
| 8                       | Total Suspended Solids @ 105°C                     | IS 3025 (Part 17) : 1984                | mg/L  | <5.0    |

Statement of Conformity:--

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252

**TEST REPORT**

Page 1 of 1

**STACK EMISSION MONITORING**

|                                  |                                                                                                                                                                              |                          |                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012916-F                                                                                                                                                     | Report Date :            | 04.09.2025           |
| Customer Name & Address :        | <b>M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)</b><br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |                          |                      |
| Sample Description :             | Stack Emission                                                                                                                                                               | Sample Reference No :    | EL-NL-SE-263-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                                   | Sample Collected Date :  | 26.08.2025           |
| Sampling Time :                  | 30 Minutes                                                                                                                                                                   | Sample Received on :     | 28.08.2025           |
| Qty of Sample Received :         | Thimble(1 no), Approx 50 ml Solution(2 nos) & Gas (1L)                                                                                                                       | Test Commenced on :      | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                         | Test Completed on :      | 03.09.2025           |
| Sampling Environment Condition : | Temperature:32.0°C                                                                                                                                                           | Sampling Method / Plan : | IS 11255             |
| Sample Mark :                    | Manual Blasting Machine                                                                                                                                                      |                          |                      |
| Instruments Used for Sampling :  | SM Kit (ID No: EL-IT-F56) with calibration validity due on 21.01.2026                                                                                                        |                          |                      |

| S. No                   | Name of the Test                         | Test Method                                        | Units   | Results | Max. Permissible TNPCB Norms for General Emission |
|-------------------------|------------------------------------------|----------------------------------------------------|---------|---------|---------------------------------------------------|
| <b>Chemical Testing</b> |                                          |                                                    |         |         |                                                   |
| 1                       | A Port Hole Height from "G" Level        | By Customer                                        | m       | 3.0     | NA                                                |
| 2                       | A Stack Diameter                         | By Customer                                        | m       | 0.45    | NA                                                |
| 3                       | A Stack Height from "G" Level            | By Customer                                        | m       | 5.0     | NA                                                |
| 4                       | Ambient Temperature                      | SOP No.EL-SOP-ARS-15 Issue No.01 Dated 01.01: 2015 | °C      | 32      | NA                                                |
| 5                       | Carbon Monoxide (as CO)                  | Clause No.4 of IS 13270 :1992                      | % (v/v) | <0.2    | 1.0                                               |
| 6                       | Flue Gas Temperature                     | Clause No.6 of IS 11255 (Part 3) : 2008            | °C      | 33      | NA                                                |
| 7                       | Flue Gas Velocity                        | Clause No.5 of IS 11255 (Part 3) : 2008            | m/s     | 10.5    | NA                                                |
| 8                       | Gaseous Flow Discharge                   | Clause No.10 of IS 11255 (Part 3) : 2008           | m³/Hr   | 5989    | NA                                                |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> ) | IS 11255 (Part 7) : 2005                           | mg/Nm³  | <1.0    | NA                                                |
| 10                      | Particulate Matter (PM)                  | IS 11255 (Part 1) : 1985                           | mg/Nm³  | 21.5    | 150                                               |
| 11                      | Sulphur Dioxide (as SO <sub>2</sub> )    | IS 11255 (Part 2) : 1985                           | mg/Nm³  | <1.0    | NA                                                |

**Statement of Conformity:** The concentrations of the parameters tested in the above Stack Emission are within the prescribed limits of TNPCB tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager


**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**TEST REPORT**

Page 1 of 1

**STACK EMISSION MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012917-F                                                                                                                                              | Report Date :                                                                       | 04.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Stack Emission                                                                                                                                                        | Sample Reference No :                                                               | EL-NL-SE-264-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 30 Minutes                                                                                                                                                            | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Thimble(1 no), Approx 50 ml Solution(2 nos) & Gas (1L)                                                                                                                | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 03.09.2025           |
| Sampling Environment Condition : | Temperature:32.0°C                                                                                                                                                    | Sampling Method / Plan :                                                            | IS 11255             |
| Sample Mark :                    | Mechanical Reclamation & Thermal Reclamation System                                                                                                                   |                                                                                     |                      |
| Instruments Used for Sampling :  | SM Kit (ID No: EL-IT-F56) with calibration validity due on 21.01.2026                                                                                                 |                                                                                     |                      |

| S. No                   | Name of the Test                         | Test Method                                           | Units   | Results | Max. Permissible TNPCB Norms for General Emission |
|-------------------------|------------------------------------------|-------------------------------------------------------|---------|---------|---------------------------------------------------|
| <b>Chemical Testing</b> |                                          |                                                       |         |         |                                                   |
| 1                       | A Port Hole Height from "G" Level        | By Customer                                           | m       | 3.0     | NA                                                |
| 2                       | A Stack Diameter                         | By Customer                                           | m       | 2.2     | NA                                                |
| 3                       | A Stack Height from "G" Level            | By Customer                                           | m       | 5.0     | NA                                                |
| 4                       | Ambient Temperature                      | SOP No.EL-SOP-ARS-15 Issue No.01<br>Dated 01.01: 2015 | °C      | 32      | NA                                                |
| 5                       | Carbon Monoxide (as CO)                  | Clause No.4 of IS 13270 :1992                         | % (v/v) | <0.2    | 1.0                                               |
| 6                       | Flue Gas Temperature                     | Clause No.6 of IS 11255 (Part 3) :<br>2008            | °C      | 38      | NA                                                |
| 7                       | Flue Gas Velocity                        | Clause No.5 of IS 11255 (Part 3) :<br>2008            | m/s     | 10.8    | NA                                                |
| 8                       | Gaseous Flow Discharge                   | Clause No.10 of IS 11255 (Part 3) :<br>2008           | m³/Hr   | 147237  | NA                                                |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> ) | IS 11255 (Part 7) : 2005                              | mg/Nm³  | <1.0    | NA                                                |
| 10                      | Particulate Matter (PM)                  | IS 11255 (Part 1) : 1985                              | mg/Nm³  | 44.6    | 150                                               |
| 11                      | Sulphur Dioxide (as SO <sub>2</sub> )    | IS 11255 (Part 2) : 1985                              | mg/Nm³  | <1.0    | NA                                                |

**Statement of Conformity:** The concentrations of the parameters tested in the above Stack Emission are within the prescribed limits of TNPCB tolerance limits.

&lt;-- End of Report --&gt;

|                                                                                                                                  |                                                                                     |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
 Technical Manager

**R.S.DINAKARAN**  
 Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**TEST REPORT**
**STACK EMISSION MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012918-F                                                                                                                                              | Report Date :                                                                       | 04.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Stack Emission                                                                                                                                                        | Sample Reference No :                                                               | EL-NL-SE-265-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 30 Minutes                                                                                                                                                            | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Thimble(1 no),Approx 50 ml Solution(2 nos) & Gas (1L)                                                                                                                 | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 03.09.2025           |
| Sampling Environment Condition : | Temperature:32.0°C                                                                                                                                                    | Sampling Method / Plan :                                                            | IS 11255             |
| Sample Mark :                    | Shot Blasting                                                                                                                                                         |                                                                                     |                      |
| Instruments Used for Sampling :  | SM Kit (ID No: EL-IT-F56) with calibration validity due on 21.01.2026                                                                                                 |                                                                                     |                      |

| S. No                   | Name of the Test                         | Test Method                                        | Units              | Results | Max. Permissible TNPCB Norms for General Emission |
|-------------------------|------------------------------------------|----------------------------------------------------|--------------------|---------|---------------------------------------------------|
| <b>Chemical Testing</b> |                                          |                                                    |                    |         |                                                   |
| 1                       | A Port Hole Height from "G" Level        | By Customer                                        | m                  | 3.0     | NA                                                |
| 2                       | A Stack Diameter                         | By Customer                                        | m                  | 0.8     | NA                                                |
| 3                       | A Stack Height from "G" Level            | By Customer                                        | m                  | 5.0     | NA                                                |
| 4                       | Ambient Temperature                      | SOP No.EL-SOP-ARS-15 Issue No.01 Dated 01.01: 2015 | °C                 | 32      | NA                                                |
| 5                       | Carbon Monoxide (as CO)                  | Clause No.4 of IS 13270 :1992                      | % (v/v)            | <0.2    | 1.0                                               |
| 6                       | Flue Gas Temperature                     | Clause No.6 of IS 11255 (Part 3) : 2008            | °C                 | 35      | NA                                                |
| 7                       | Flue Gas Velocity                        | Clause No.5 of IS 11255 (Part 3) : 2008            | m/s                | 12.2    | NA                                                |
| 8                       | Gaseous Flow Discharge                   | Clause No.10 of IS 11255 (Part 3) : 2008           | m <sup>3</sup> /Hr | 21850   | NA                                                |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> ) | IS 11255 (Part 7) : 2005                           | mg/Nm <sup>3</sup> | <1.0    | NA                                                |
| 10                      | Particulate Matter (PM)                  | IS 11255 (Part 1) : 1985                           | mg/Nm <sup>3</sup> | 33.1    | 150                                               |
| 11                      | Sulphur Dioxide (as SO <sub>2</sub> )    | IS 11255 (Part 2) : 1985                           | mg/Nm <sup>3</sup> | <1.0    | NA                                                |

**Statement of Conformity:** The concentrations of the parameters tested in the above Stack Emission are within the prescribed limits of TNPCB tolerance limits.

-- End of Report -->

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
Technical Manager

**R.S.DINAKARAN**  
Quality Manager



**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results;
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report. if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02



## TEST REPORT

### STACK EMISSION (> 800 KW) MONITORING

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012919-F                                                                                                                                              | Report Date :                                                                       | 04.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Stack Emission (> 800 KW)                                                                                                                                             | Sample Reference No :                                                               | EL-NL-SE-266-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 30 Minutes                                                                                                                                                            | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Thimble(1 no),Approx 50 ml Solution(2 nos) & Gas (1L)                                                                                                                 | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 03.09.2025           |
| Sampling Environment Condition : | Temperature:32.0°C                                                                                                                                                    | Sampling Method / Plan :                                                            | IS 11255             |
| Sample Mark :                    | DG 1500 KVA                                                                                                                                                           |                                                                                     |                      |
| Instruments Used for Sampling :  | SM Kit (ID No: EL-IT-F56) with calibration validity due on 21.01.2026                                                                                                 |                                                                                     |                      |

| S. No                   | Name of the Test                                                  | Test Method                                       | Units              | Results | Max. Permissible TNPCB Norms for above 800 KVA DG |
|-------------------------|-------------------------------------------------------------------|---------------------------------------------------|--------------------|---------|---------------------------------------------------|
| <b>Chemical Testing</b> |                                                                   |                                                   |                    |         |                                                   |
| 1                       | A Port Hole Height from "G" Level                                 | By Customer                                       | m                  | 3.0     | NA                                                |
| 2                       | A Stack Diameter                                                  | By Customer                                       | m                  | 0.20    | NA                                                |
| 3                       | A Stack Height from "G" Level                                     | By Customer                                       | m                  | 5.0     | NA                                                |
| 4                       | Ambient Temperature                                               | Instruments Manual Based SOP<br>No.EL-SOP-ARS-15  | °C                 | 32      | NA                                                |
| 5                       | Carbon Monoxide (as CO) (at 15% O <sub>2</sub> )                  | SOP No.EL-SOP-SKT-12 Issue No.01<br>June,24: 2021 | mg/Nm <sup>3</sup> | <1.0    | 150                                               |
| 6                       | Flue Gas Temperature                                              | Clause No.6 of IS 11255 (Part 3) :2008            | °C                 | 167     | NA                                                |
| 7                       | Flue Gas Velocity                                                 | Clause No.5 of IS 11255 (Part 3) :2008            | m/S                | 11.9    | NA                                                |
| 8                       | Gaseous Flow Discharge                                            | Clause No.10 of IS 11255 (Part 3) :2008           | m <sup>3</sup> /Hr | 932     | NA                                                |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> ) (at 15% O <sub>2</sub> ) | IS 11255 (Part 7) :2005                           | ppm                | 10.5    | 710                                               |
| 10                      | Particulate Matter (PM) (at 15% O <sub>2</sub> )                  | IS : 11255 (Part 1) :1985                         | mg/Nm <sup>3</sup> | 34.7    | 75                                                |
| 11                      | Sulphur Dioxide (as SO <sub>2</sub> )                             | IS 11255 (Part 2) :1985                           | mg/Nm <sup>3</sup> | 12.1    | NA                                                |

**Statement of Conformity:**The concentrations of the parameters tested in the above Stack Emission are within the prescribed limits of TNPCB tolerance limits.

<-- End of Report -->

|                                                                                                                                  |  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
Technical Manager



**R.S.DINAKARAN**  
Quality Manager

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report. If the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**TEST REPORT**
**STACK EMISSION MONITORING**

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012920-F                                                                                                                                              | Report Date :                                                                       | 04.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Stack Emission                                                                                                                                                        | Sample Reference No :                                                               | EL-NL-SE-267-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 30 Minutes                                                                                                                                                            | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Thimble(1 no),Approx 50 ml Solution(2 nos) & Gas (1L)                                                                                                                 | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 03.09.2025           |
| Sampling Environment Condition : | Temperature:32.0 °C                                                                                                                                                   | Sampling Method / Plan :                                                            | IS 11255             |
| Sample Mark :                    | Paint Booth                                                                                                                                                           |                                                                                     |                      |
| Instruments Used for Sampling :  | SM Kit (ID No: EL-IT-F56) with calibration validity due on 21.01.2026                                                                                                 |                                                                                     |                      |

| S. No                   | Name of the Test                         | Test Method                                           | Units   | Results | Max. Permissible TNPCB Norms for General Emission |
|-------------------------|------------------------------------------|-------------------------------------------------------|---------|---------|---------------------------------------------------|
| <b>Chemical Testing</b> |                                          |                                                       |         |         |                                                   |
| 1                       | A Port Hole Height from "G" Level        | By Customer                                           | m       | 3.0     | NA                                                |
| 2                       | A Stack Diameter                         | By Customer                                           | m       | 0.8     | NA                                                |
| 3                       | A Stack Height from "G" Level            | By Customer                                           | m       | 5.0     | NA                                                |
| 4                       | Ambient Temperature                      | SOP No.EL-SOP-ARS-15 Issue No.01<br>Dated 01.01: 2015 | °C      | 32      | NA                                                |
| 5                       | Carbon Monoxide (as CO)                  | Clause No.4 of IS 13270 :1992                         | % (v/v) | <0.2    | 1.0                                               |
| 6                       | Flue Gas Temperature                     | Clause No.6 of IS 11255 (Part 3) :<br>2008            | °C      | 33      | NA                                                |
| 7                       | Flue Gas Velocity                        | Clause No.5 of IS 11255 (Part 3) :<br>2008            | m/s     | 10.3    | NA                                                |
| 8                       | Gaseous Flow Discharge                   | Clause No.10 of IS 11255 (Part 3) :<br>2008           | m³/Hr   | 18568   | NA                                                |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> ) | IS 11255 (Part 7) : 2005                              | mg/Nm³  | <1.0    | NA                                                |
| 10                      | Particulate Matter (PM)                  | IS 11255 (Part 1) : 1985                              | mg/Nm³  | 10.8    | 150                                               |
| 11                      | Sulphur Dioxide (as SO <sub>2</sub> )    | IS 11255 (Part 2) : 1985                              | mg/Nm³  | <1.0    | NA                                                |

**Statement of Conformity:** The concentrations of the parameters tested in the above Stack Emission are within the prescribed limits of TNPCB tolerance limits.

-- End of Report -->

|                                                                                                                                  |                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

**R.REVATHI**  
Technical Manager



**R.S.DINAKARAN**  
Quality Manager

**Disclaimer :**

- This test report shall not be reproduce in full or part without the written approval of the Laboratory.
- The test results relate only to the test item tested and results apply to the sample "as received conditions".
- When the information supplied by the customer and can affect the validity of the results.
- The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
- No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
- This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
- This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
- Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
- This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
- (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

**Excellence Laboratory**

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252



## TEST REPORT

### STACK EMISSION MONITORING

|                                  |                                                                                                                                                                       |                                                                                     |                      |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|
| Report / ULR No :                | TC13674-25-0-000012921-F                                                                                                                                              | Report Date :                                                                       | 04.09.2025           |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                      |
| Sample Description :             | Stack Emission                                                                                                                                                        | Sample Reference No :                                                               | EL-NL-SE-268-08-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 26.08.2025           |
| Sampling Time :                  | 30 Minutes                                                                                                                                                            | Sample Received on :                                                                | 28.08.2025           |
| Qty of Sample Received :         | Thimble(1 no),Approx 50 ml Solution(2 nos) & Gas (1L)                                                                                                                 | Test Commenced on :                                                                 | 28.08.2025           |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 03.09.2025           |
| Sampling Environment Condition : | Temperature:32.0 C                                                                                                                                                    | Sampling Method / Plan :                                                            | IS 11255             |
| Sample Mark :                    | 6T Dual Track Induction Furnace                                                                                                                                       |                                                                                     |                      |
| Instruments Used for Sampling :  | SM Kit (ID No: EL-IT-F56) with calibration validity due on 21.01.2026                                                                                                 |                                                                                     |                      |

| S. No                   | Name of the Test                         | Test Method                                           | Units              | Results | Max. Permissible<br>TNPCB Norms for<br>General Emission |
|-------------------------|------------------------------------------|-------------------------------------------------------|--------------------|---------|---------------------------------------------------------|
| <b>Chemical Testing</b> |                                          |                                                       |                    |         |                                                         |
| 1                       | A Port Hole Height from "G" Level        | By Customer                                           | m                  | 3.0     | NA                                                      |
| 2                       | A Stack Diameter                         | By Customer                                           | m                  | 1.85    | NA                                                      |
| 3                       | A Stack Height from "G" Level            | By Customer                                           | m                  | 5.0     | NA                                                      |
| 4                       | Ambient Temperature                      | SOP No.EL-SOP-ARS-15 Issue No.01 Dated<br>01.01: 2015 | °C                 | 32      | NA                                                      |
| 5                       | Carbon Monoxide (as CO)                  | Clause No.4 of IS 13270 :1992                         | % (v/v)            | <0.2    | 1.0                                                     |
| 6                       | Flue Gas Temperature                     | Clause No.6 of IS 11255 (Part 3) : 2008               | °C                 | 90      | NA                                                      |
| 7                       | Flue Gas Velocity                        | Clause No.5 of IS 11255 (Part 3) : 2008               | m/s                | 10.6    | NA                                                      |
| 8                       | Gaseous Flow Discharge                   | Clause No.10 of IS 11255 (Part 3) : 2008              | m <sup>3</sup> /Hr | 86142   | NA                                                      |
| 9                       | Oxides of Nitrogen (as NO <sub>2</sub> ) | IS 11255 (Part 7) : 2005                              | mg/Nm <sup>3</sup> | 5.4     | NA                                                      |
| 10                      | Particulate Matter (PM)                  | IS 11255 (Part 1) : 1985                              | mg/Nm <sup>3</sup> | 16.5    | 150                                                     |
| 11                      | Sulphur Dioxide (as SO <sub>2</sub> )    | IS 11255 (Part 2) : 1985                              | mg/Nm <sup>3</sup> | 3.5     | NA                                                      |

**Statement of Conformity:** The concentrations of the parameters tested in the above Stack Emission are within the prescribed limits of TNPCB tolerance limits.

<-- End of Report -->

|                                               |  |                                                       |
|-----------------------------------------------|--|-------------------------------------------------------|
| Report Verified by<br><br>Technical Personnel |  | For EXCELLENCE LABORATORY<br><br>Authorized Signatory |
|-----------------------------------------------|--|-------------------------------------------------------|

**R.REVATHI**  
Technical Manager

**R.S.DINAKARAN**  
Quality Manager

**Disclaimer :**

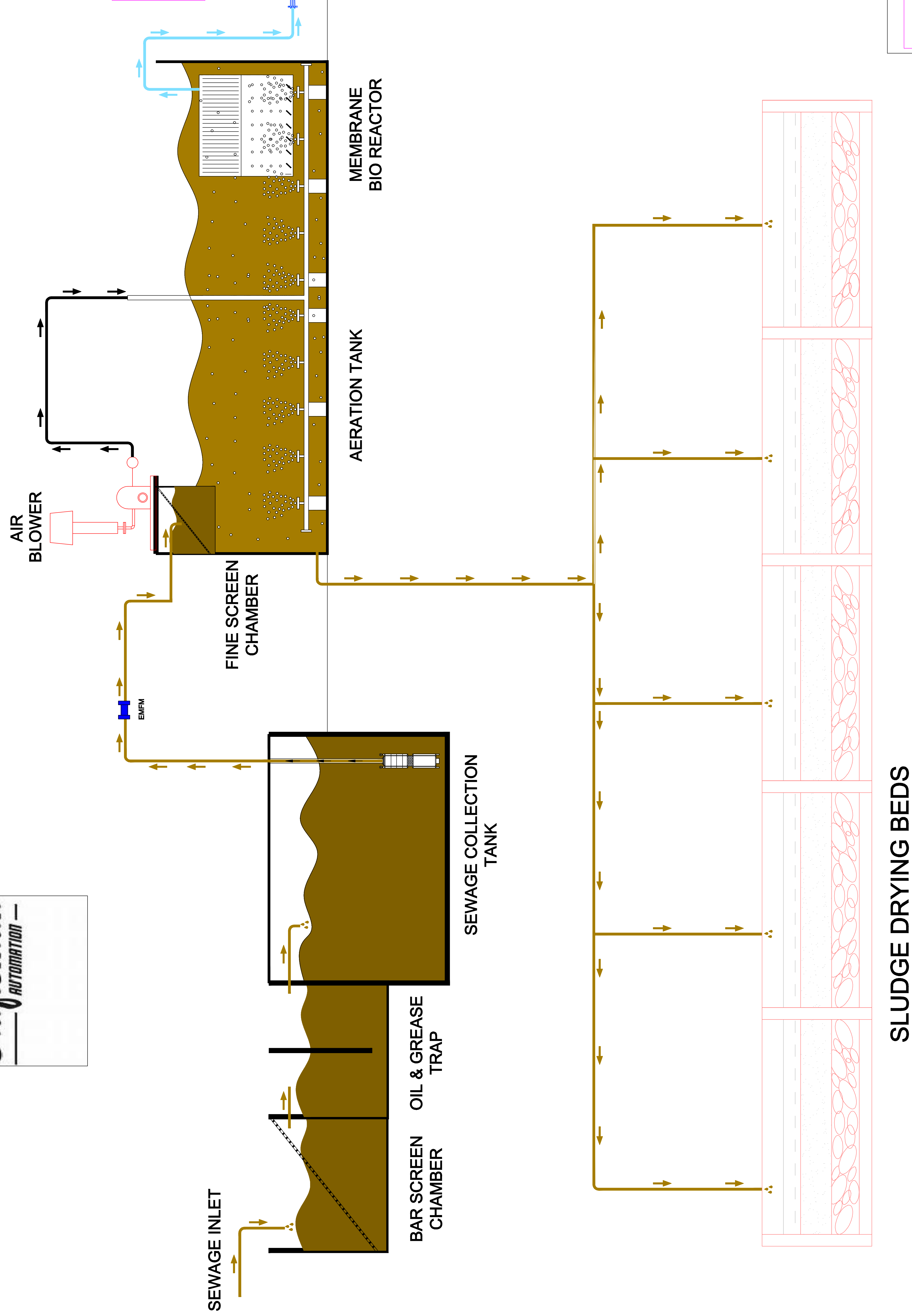
1. This test report shall not be reproduced in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

# 100 KLD Sewage Treatment Plant(Membrane Bio-Reactor)

## M/s - Craftsman Automation Ltd, Kothava



SLUDGE DRYING BEDS



## DESIGN DETAILS OF SEWAGE TREATMENT PLANT

Sewage Treatment Plant is proposed for **M/s. Craftsman Automation Ltd, Coimbatore** to treat the sewage influent generation in the facility to reuse the treated sewage for Landscaping / gardening.

Treatment of Sewage generated from toilets, Kitchen, wash rooms, kitchen, etc, at different locations of the factory to make it suitable for Landscaping as per TNPCB's requirement.

### Sewage Generation

Average Feed Flow - 100 KL per Day

Peak/Max. Feed Flow - 5 KL per Hour

### Sewage Treatment Plant Capacity

This plant has been designed considering 100 KLD of sewage

Plant Capacity - 1,00,000 Litres per Day

Treatment Process - 5,000 Litres per Hour (20 Hours Operation)

## DESIGN CHARACTERISTICS OF SEWAGE AND TREATED WATER

| S.No | Parameters                          | STP Feed (Assumed) | STP Treated Water Outlet | TNPCB Standards |
|------|-------------------------------------|--------------------|--------------------------|-----------------|
| 1.   | pH                                  | 6.0 – 8.0          | 6.0 – 8.0                | 5.5 – 9.0       |
| 2.   | COD (mg/l)                          | <400               | <50                      | -               |
| 3.   | BOD @ 27°C for 3 days (mg/l)        | <300               | <15                      | <20             |
| 4.   | Total Suspended Solids (TSS) (mg/l) | <200               | <10                      | <30             |
| 5.   | Oil & Grease                        | <20                | <10                      | -               |

**\*TNPCB standards for On Land Disposal/Gardening**

## **Treatment Scheme**

This Sewage Treatment Plant (STP) is designed on the MBR Technology (Membrane Bio Reactor). The sewage generated from the various sources will be collected in the equalization tank through the bar screen pit to remove floating material, particle size greater than 10 mm and subsequently sent to oil and grease trap to remove oily scum/excess oil. The screened sewage is then led to the aeration tank through Raw Sewage Transfer Pump. This MBR technology works on the principle of biological digestion followed by specially designed submerged hollow fibre membrane filtration. Hollow fibre membranes have pore size of 0.06 micron which ensures removal of pathogens and bacteria in treated water. MBR-STP is a combination of membranes, pump, blower, and other electrical equipment which makes itself unique in operation and having hassle free maintenance and automated operation. The MBR treated water can be used for Toilet Flushing or landscaping other uses as per TNPCB Norms as it's quality is equal to UF treated water quality.

## **UNIT DETAILS AND SALIENT FEATURES**

The various units of the plant are listed, their objectives explained, salient feature of the units are given and the normal operational procedure defined with precautions to be followed listed. The sections have been organized in sequential manner with connected sub units being placed under one section.

### **Bar Screen Chamber**

#### **Objective**

The main objective of the bar screen chamber is to retain the large-seized floating matter in the raw sewage. Floating matter that is retained in the bar screen has to be manually cleaned.

| <b>BAR SCREEN CHAMBER</b> |                   |
|---------------------------|-------------------|
| Quantity                  | 1 no              |
| Dimension                 | 1.0 x 1.0 x 1.0 M |
| MOC of Chamber            | RCC               |

## Oil Trap

### Objective

The main objective of the oil trap is to retain the floating oil in the raw sewage. Floating oil is retained in the oil trap has to be remove through installed skimmer.

| OIL TRAP       |                   |
|----------------|-------------------|
| Quantity       | 1 no              |
| Dimension      | 1.0 x 1.0 x 1.0 M |
| MOC of Chamber | RCC               |

## Collection Tank

### Objective

The main objective of the collection tank is to receive the waste from the various sources to hold the same and to even out the variations in flow and quality.

### It gives the following benefits:

- ❖ Performance of the biological treatment is enhanced, because shock loading is eliminated or minimized and inhibiting substances diluted
- ❖ The sewage quality and thickening performance of the collection settling tank following biological treatment is improved through constant solids loading.
- ❖ Helps to reduce the size and cost of downstream treatment facilities.

| COLLECTION TANK |                         |
|-----------------|-------------------------|
| Quantity        | 1 no                    |
| Dimension       | 8.0 x 7.0 x 2.0 + 0.5FB |
| Capacity        | 112 KL                  |
| MOC of Chamber  | RCC                     |

### Operation:

The collection tank shall normally operate on the fill and draw principle providing sufficient residence time at full flow conditions, prior to the wastewater going to the downstream treatment units. A local push button station controls the operation of the transfer pumps from the collection tank.

## Raw Sewage Transfer Pump

### Objective

The objective of the raw sewage transfer pump is to pump the waste water from the equalization tank to the aeration tank at the required flow rate of 1.25 M<sup>3</sup> / hr.

### Pumps

| RAW SEWAGE TRANSFER PUMP |           |
|--------------------------|-----------|
| Quantity                 | 2 No      |
| Capacity                 | 5 KL / Hr |
| Make                     | Lubi      |
| M.O.C                    | CI        |

### Operation

The operation of the transfer pump from the collection tank is controlled by PLC operations/operated manually.

## Aeration cum MBR Tank

### Objective

The aeration tank is used to remove the oxygen consuming organic matter from the sewage by biological treatment. Diffused aeration is used for supplying air, containing oxygen. The bubbles produced from the Nozzles are of extremely small size. Thus, the total surface area that interacts with the sewage is very large and the contact time of bubbles is also long due to the slow rise rate of the bubbles. The system is thus extremely efficient in terms of oxygen transfer efficiency. The flow of fine bubbles provides a gentle mixing.

| AERATION CUM MBR TANK |                          |
|-----------------------|--------------------------|
| Quantity              | 1 no                     |
| Dimension             | 5.8 X 1.8 X 2.6 + 0.4 FB |
| Capacity              | 27 KL                    |
| MOC of Chamber        | MSFRP                    |

## **Twin Lobe Air Blower**

### **Objective**

The purpose of the twin lobe air blower is to provide a source of compressed air for the fine bubble diffused aeration and equalization tanks. The blowers are complete with accessories such as suction filter, suction silencer, vibration pads, pressure gauge, pressure relief valve, non-return valve, etc.

| <b>BLOWER</b> |                         |
|---------------|-------------------------|
| Quantity      | 2 nos.                  |
| Type          | Twin lobe               |
| Make          | Akash                   |
| Capacity      | 220 M <sup>3</sup> / Hr |
| M.O.C         | CI                      |

| <b>MOTORS</b> |          |
|---------------|----------|
| Quantity      | 2 no     |
| HP            | 5.0 HP   |
| Speed         | 1440 rpm |
| Make          | CGL      |
| M.O.C         | CI       |

The air blowers need to be operated on a continuous basis. A minimum of one blower should be kept always in operation.

### **Disinfection system**

Ultra Violet disinfection system has greatly reduced the prevalence of waterborne disease, as it is effective against almost all bacteria and viruses, as well as amoeba.

### **Tank Details:**

| <b>UV DISINFECTION SYSTEM</b> |                           |
|-------------------------------|---------------------------|
| Quantity                      | 1 No.                     |
| Capacity                      | 0 - 6 LPH                 |
| Make                          | National/Purvi/Equiv      |
| MOC                           | Body - SS / Light - Glass |

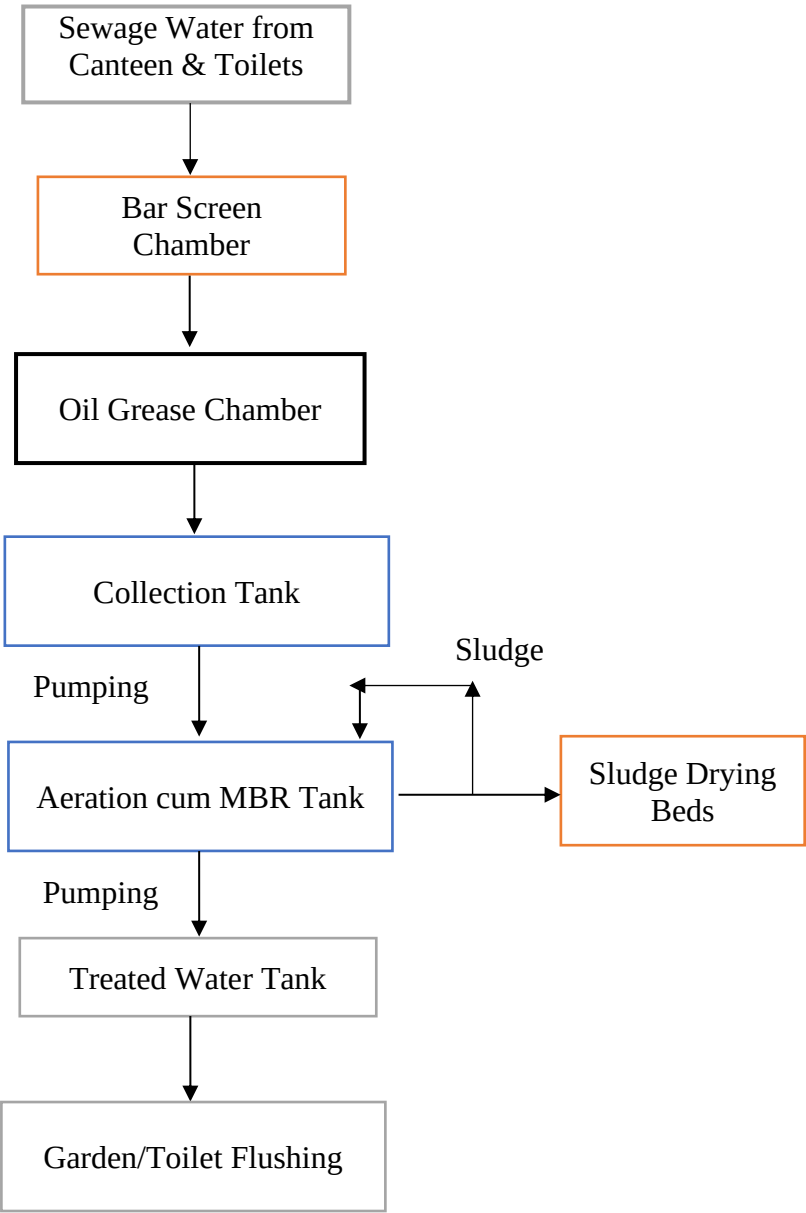
## **Treated Water Tank**

### **Objective**

The objective of the treated water tank is to collect the water final treated water from the MBR outlet via UV system.

| <b>TREATED WATER TANK</b> |                 |
|---------------------------|-----------------|
| No. of units              | 1 No.           |
| Dimension                 | 8.0 X 4.8 X 2.0 |
| Capacity                  | 76.8 KL         |
| MOC                       | RCC             |

**STP(MBR) PROCESS FLOW DIAGRAM**



## TECHNICAL SPECIFICATION

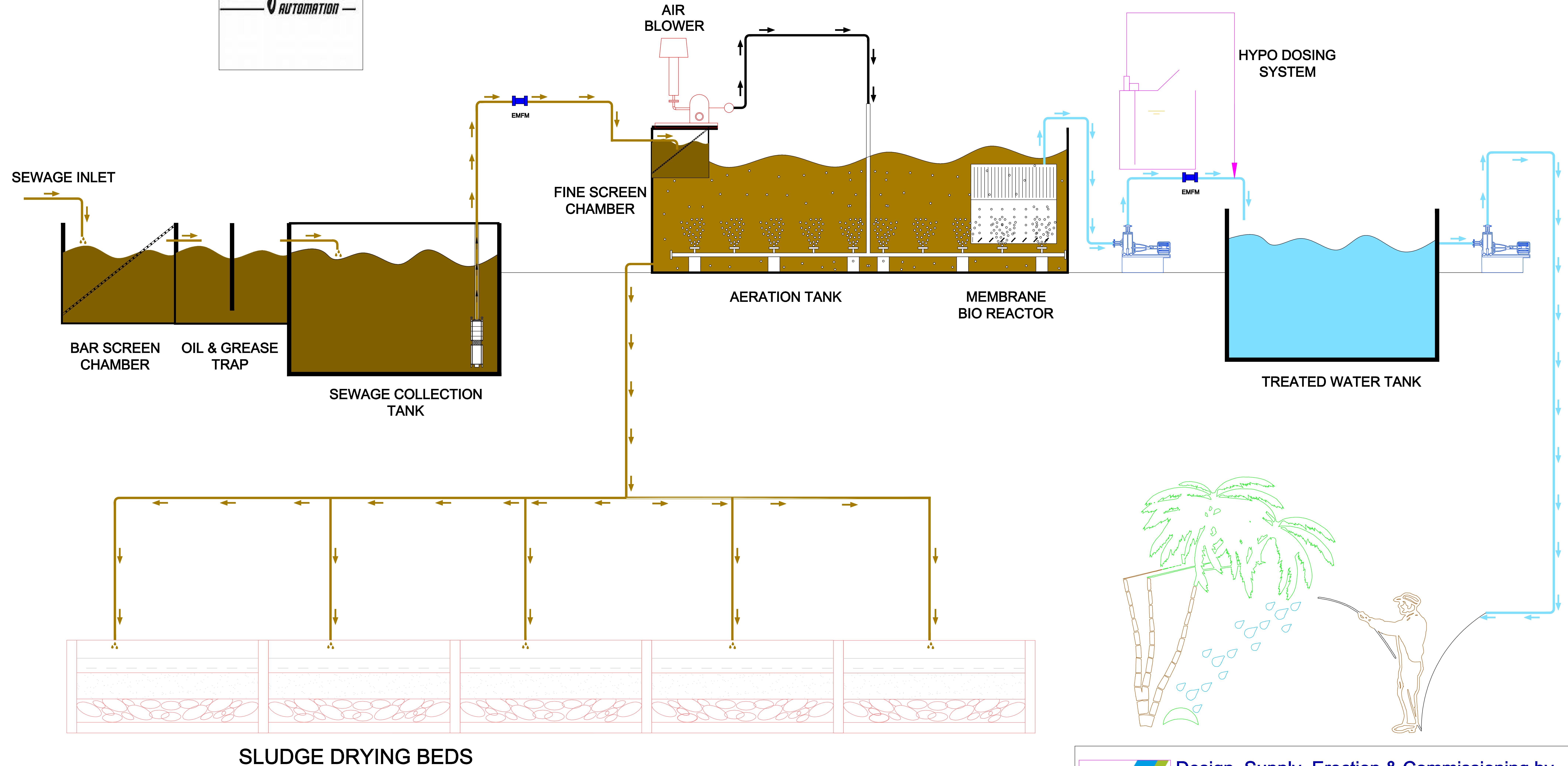
| SL.NO    | DESCRIPTION                                     | QTY              |
|----------|-------------------------------------------------|------------------|
| <b>I</b> | <b>MBR BASED SEWAGE TREATMENT PLANT-100 KLD</b> |                  |
| <b>1</b> | <b>COARSE SCREEN</b>                            | 1 No             |
|          | MOC: MSEP                                       |                  |
|          | Size:8mm perforated mesh                        |                  |
| <b>2</b> | <b>FINE SCREEN</b>                              | 1 No             |
|          | MOC: MSEP                                       |                  |
|          | Size:5mm perforated mesh                        |                  |
| <b>3</b> | <b>RAW SEWAGE TRANSFER PUMP</b>                 | 2 Nos<br>(1W+1S) |
|          | Type: Non-Clog Submersible                      |                  |
|          | Make: Leo/Lubi/Eqv                              |                  |
|          | Capacity: 5m3/hr                                |                  |
|          | Head: 6-10mtr                                   |                  |
|          | MOC: CI                                         |                  |
| <b>4</b> | <b>AERATION CUM MBR TANK</b>                    | 1 set            |
|          | Size: 5.8 x 1.8 x 3 Mtrs                        |                  |
|          | MOC: MSFRP                                      |                  |
|          | Make: VEPL                                      |                  |
| <b>5</b> | <b>MEMBRANE BIO REACTOR</b>                     | 1 set            |
|          | Type: Submerged hollow fibre                    |                  |
|          | Pore Size: 0.06mm                               |                  |
|          | Fiber MOC: Reinforced PVDF                      |                  |
|          | Stand MOC: SS304                                |                  |
| <b>6</b> | <b>SLUDGE DRYING BED</b>                        | 4                |

|    |                                                                                                           |                  |
|----|-----------------------------------------------------------------------------------------------------------|------------------|
|    | Size: 1.0 x 1.0 x 1.0 Mt                                                                                  |                  |
|    | MOC: Brick                                                                                                |                  |
| 7  | <b>AIRBLOWER</b>                                                                                          | 2 Nos<br>(1W+1S) |
|    | Capacity: As required                                                                                     |                  |
|    | Type of Blower: Twin Lobe                                                                                 |                  |
|    | Type of Drive: V Belt                                                                                     |                  |
|    | Material of Construction: CI                                                                              |                  |
|    | Capacity: 100m <sup>3</sup> /hr                                                                           |                  |
|    | Make: Akash/Eqv                                                                                           |                  |
| 8  | <b>MEMRANE FILTRATION PUMP</b>                                                                            | 2 Nos<br>(1W+1S) |
|    | Type: Centrifugal pump                                                                                    |                  |
|    | Make: Lubi/Kirloskar/Eqv                                                                                  |                  |
|    | Capacity: 5m <sup>3</sup> /hr                                                                             |                  |
|    | Head: 12-15mtrs                                                                                           |                  |
| 9  | <b>AIR DISTRIBUTION GRID</b>                                                                              | 1 Set            |
|    | uPVC/HDPE/MS Air distribution grid with required accessories like valves, distribution hoses and supports |                  |
| 10 | <b>FINE BUBBLE DIFFUSER</b>                                                                               | 1 Set            |
|    | Size of the Membrane: 65 x 1000mm Long                                                                    |                  |
|    | Type of the Membrane: Tubular                                                                             |                  |
|    | Material of Construction: PPDM                                                                            |                  |
| 11 | <b>BACKWASH PUMP</b>                                                                                      | 1 No             |
|    | Type: Centrifugal pump                                                                                    |                  |
|    | Make: Lubi/Kirloskar/Eqv                                                                                  |                  |
|    | Capacity: 5m <sup>3</sup> /hr                                                                             |                  |

|    |                                                                         |       |
|----|-------------------------------------------------------------------------|-------|
|    | Head: 12-15mtrs                                                         |       |
| 12 | <b>BACKWASH TANK</b>                                                    | 1 No  |
|    | Size: As required                                                       |       |
|    | MOC: LDPE                                                               |       |
| 13 | <b>DISINFECTION SYSTEM</b>                                              | 1 No  |
|    | Pump Capacity:0-6 LPH                                                   |       |
|    | Type: Metering                                                          |       |
|    | Make: National/purvi/Eqv                                                |       |
| 14 | <b>EMFM</b>                                                             | 2 Nos |
|    | Make: Mahadev/Frenig/eqv                                                |       |
| 15 | <b>STP ELECTRICAL PANEL</b>                                             | 1 No  |
|    | Non-Compartmentalized (Automatic/Manual panel with PLC based operation) |       |

# 100 KLD Sewage Treatment Plant(Membrane Bio-Reactor Technology) - Flow Chart

## M/s - Craftsman Automation Ltd, Kothavadi



Design, Supply, Erection & Commissioning by  
**M/S VISWA ENVIROTECH PVT LTD .,**  
No: 1 , Palani Andavar koil street ,  
Vadapalani, Chennai-600 026 .  
Tel : 044 - 2472 2477 Mobile : 99402 97937  
jrk@viswaenviro.com ; www.viswaenviro.com

## TEST REPORT

### VOLATILE ORGANIC COMPOUNDS ANALYSIS

|                                  |                                                                                                                                                                       |                                                                                     |                    |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|
| Report / ULR No :                | EL-NO-VO-1-07-2025                                                                                                                                                    | Report Date :                                                                       | 09.07.2025         |
| Customer Name & Address :        | M/S. Craftsman Automation Limited - Unit-1 (Kothavadi)<br>SF.No. 77/1, 77/2, 80/1, Kothavadi Village,<br>Kinathukadavu (Tk), Coimbatore - 642 109.<br>Ph : 9677537391 |  |                    |
| Sample Description :             | Volatile Organic Compounds                                                                                                                                            | Sample Reference No :                                                               | EL-NO-VO-1-07-2025 |
| Sample Drawn By :                | Laboratory                                                                                                                                                            | Sample Collected Date :                                                             | 03.07.2025         |
| Sampling Time :                  | 45 Minutes                                                                                                                                                            | Sample Received on :                                                                | 04.07.2025         |
| Qty of Sample Received :         | Activated Charcoal Tube                                                                                                                                               | Test Commenced on :                                                                 | 04.07.2025         |
| Sample Condition on Receipt :    | Good                                                                                                                                                                  | Test Completed on :                                                                 | 09.07.2025         |
| Sampling Environment Condition : | Temperature:28.7°C, RH:59.3%                                                                                                                                          | Sampling Method / Plan :                                                            | EL-SOP-VOS-01      |
| Sample Mark :                    | Paint Booth                                                                                                                                                           |                                                                                     |                    |
| Instruments Used for Sampling :  | PAS (ID No: EL-IT-F03) with calibration validity due on 06.11.2025                                                                                                    |                                                                                     |                    |

| S. No                   | Name of the Test                                                                         | Test Method                                       | Units             | Results      | Max. Permissible Limits of OSHA Norms (VOC) |
|-------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------|--------------|---------------------------------------------|
| <b>Chemical Testing</b> |                                                                                          |                                                   |                   |              |                                             |
| 1                       | 1,1,1 - Trichloroethane( as C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> )              | NIOSH 1003 : 2003                                 | mg/m <sup>3</sup> | Not Detected | 1900                                        |
| 2                       | 1,1,2-Trichloro-1,2,2-Trifluoroethane(as C <sub>2</sub> Cl <sub>3</sub> F <sub>3</sub> ) | NIOSH 1020 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 7600                                        |
| 3                       | 1,2 - Dichlorobenzene( as C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub> )                | NIOSH 1003 : 2003                                 | mg/m <sup>3</sup> | Not Detected | 450                                         |
| 4                       | 1,4 Dichlorobenzene( as C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub> )                  | NIOSH 1003 : 2003                                 | mg/m <sup>3</sup> | Not Detected | 450                                         |
| 5                       | 2 - Butanone( as C <sub>4</sub> H <sub>8</sub> O)                                        | NIOSH 1450 : 2004                                 | mg/m <sup>3</sup> | Not Detected | 2400                                        |
| 6                       | 2-Methylphenol ( as C <sub>7</sub> H <sub>8</sub> O)                                     | NIOSH 2546 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 22                                          |
| 7                       | 3-Methylphenol( as C <sub>7</sub> H <sub>8</sub> O)                                      | NIOSH 2546 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 22                                          |
| 8                       | 4 -Ethyl Toluene (as C <sub>9</sub> H <sub>12</sub> )                                    | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 1050                                        |
| 9                       | Acetone (as C <sub>3</sub> H <sub>6</sub> O)                                             | NIOSH 1300 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 2400                                        |
| 10                      | Alpha-Pinene( as C <sub>10</sub> H <sub>16</sub> )                                       | NIOSH 1552 : 1996                                 | mg/m <sup>3</sup> | Not Detected | NA                                          |
| 11                      | Amyl Acetate( as C <sub>7</sub> H <sub>14</sub> O <sub>2</sub> )                         | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 525                                         |
| 12                      | Benzaldehyde( as C <sub>7</sub> H <sub>6</sub> O)                                        | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | NA                                          |
| 13                      | Benzene( as C <sub>6</sub> H <sub>6</sub> )                                              | NIOSH 1501 : 2003                                 | mg/m <sup>3</sup> | 0.62         | 3.0                                         |
| 14                      | Beta-Pinene( as C <sub>10</sub> H <sub>16</sub> )                                        | NIOSH 1552 : 1996                                 | mg/m <sup>3</sup> | Not Detected | NA                                          |
| 15                      | Butanol( as C <sub>4</sub> H <sub>10</sub> O)                                            | NIOSH 1400 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 300                                         |
| 16                      | Butyl Acetate( as C <sub>8</sub> H <sub>12</sub> O <sub>2</sub> )                        | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 710                                         |

#### Disclaimer :

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02

Excellence Laboratory

No.23/93, Fifth Street, Ram Nagar, S.S. Colony, Madurai - 625 016. ☎ 0452-4506252



**TEST REPORT**

Report / ULR No : EL-NO-VO-1-07-2025

|    |                                                       |                                                   |                   |              |      |
|----|-------------------------------------------------------|---------------------------------------------------|-------------------|--------------|------|
| 17 | Butyl Cellosolve( as $C_6H_{14}O_2$ )                 | NIOSH 1403 : 2003                                 | mg/m <sup>3</sup> | Not Detected | 240  |
| 18 | Cresol( as $C_7H_8O$ )                                | NIOSH 2546 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 22   |
| 19 | Cyclohexanone( as $C_6H_{10}O$ )                      | NIOSH 1300 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 200  |
| 20 | D-Limonene( as $C_{10}H_{16}$ )                       | NIOSH 1552 : 1996                                 | mg/m <sup>3</sup> | Not Detected | NA   |
| 21 | Diethylene Glycol Ethyl Ether( as $C_6H_{14}O_3$ )    | NIOSH 1403 : 2003                                 | mg/m <sup>3</sup> | Not Detected | NA   |
| 22 | Ethanol( as $C_2H_5OH$ )                              | NIOSH 1400 : 2004                                 | mg/m <sup>3</sup> | Not Detected | 1900 |
| 23 | Ethyl Acetate( as $C_4H_8O_2$ )                       | NIOSH 1450 : 2003                                 | mg/m <sup>3</sup> | Not Detected | 1400 |
| 24 | Hexanal( as $C_6H_{12}O$ )                            | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | NA   |
| 25 | Iso Propyl alcohol( as $C_3H_8O$ )                    | NIOSH 1401 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 980  |
| 26 | M - Xylene( as $C_8H_{10}$ )                          | NIOSH 1501 : 2003                                 | mg/m <sup>3</sup> | 0.38         | 435  |
| 27 | Methanol( as $CH_3OH$ )                               | NIOSH 2000 : 1998                                 | mg/m <sup>3</sup> | Not Detected | 260  |
| 28 | Methyl Isobutyl Ketone( as $C_6H_{12}O$ )             | NIOSH 1300 : 1994                                 | mg/m <sup>3</sup> | Not Detected | 410  |
| 29 | Methylene Chloride( as $CH_2Cl_2$ )                   | NIOSH 1005 : 1998                                 | mg/m <sup>3</sup> | Not Detected | 86.7 |
| 30 | N-Decane( as $C_{10}H_{22}$ )                         | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | NA   |
| 31 | N-Heptane( as $C_7H_{16}$ )                           | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 2000 |
| 32 | N-Hexane( as $C_6H_{14}$ )                            | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 1800 |
| 33 | N-Octane( as $C_8H_{18}$ )                            | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 2000 |
| 34 | N-Pentane (as $C_5H_{12}$ )                           | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1: 2020  | mg/m <sup>3</sup> | Not Detected | 2950 |
| 35 | Nonanal ( as $C_9H_{18}O$ )                           | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | NA   |
| 36 | O - Xylene( as $C_8H_{10}$ )                          | NIOSH 1501 : 2003                                 | mg/m <sup>3</sup> | 0.48         | 435  |
| 37 | O,P Dichlorobenzene( as $C_6H_4Cl_2$ )                | NIOSH 1003 : 2003                                 | mg/m <sup>3</sup> | Not Detected | 750  |
| 38 | Octamethylcyclotetrasiloxane( as $C_8H_{24}O_4Si_4$ ) | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | NA   |
| 39 | P - Xylene( as $C_8H_{10}$ )                          | NIOSH 1501 : 2003                                 | mg/m <sup>3</sup> | 0.54         | 435  |
| 40 | Perchloroethylene ( $C_2Cl_4$ )                       | SOP No.EL-SOP-VOS-02 Issue No.01<br>June 1 : 2020 | mg/m <sup>3</sup> | Not Detected | 678  |

**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02



**TEST REPORT**

Report / ULR No : EL-NO-VO-1-07-2025

|    |                        |                   |                   |              |     |
|----|------------------------|-------------------|-------------------|--------------|-----|
| 41 | Phenol( as $C_6H_5O$ ) | NIOSH 2546 : 1994 | mg/m <sup>3</sup> | Not Detected | 19  |
| 42 | Toluene( as $C_7H_8$ ) | NIOSH 1501 : 2008 | mg/m <sup>3</sup> | 0.62         | 754 |

**Statement of Conformity:** The above location fulfills the necessities of OSHA standard with respect to the parameters tested.

← End of Report →

Report Verified by

Technical Personnel

For EXCELLENCE LABORATORY

Authorized Signatory

**R.REVATHI**  
Technical Manager

**R.S.DINAKARAN**  
Quality Manager



**Disclaimer :**

1. This test report shall not be reproduce in full or part without the written approval of the Laboratory.
2. The test results relate only to the test item tested and results apply to the sample "as received conditions".
3. When the information supplied by the customer and can affect the validity of the results.
4. The laboratory is not responsible for information provided by customer and it does not come under the scope of accreditation.
5. No additions, deviations or exclusions from the above test methods mentioned unless or otherwise specified in the report.
6. This test results does not account the MU value in the statement of conformity unless or otherwise specified in the report.
7. This test item will not be retained more than 10 days from date of issue of test reports, unless or otherwise requested by customer.
8. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
9. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
10. Sample is not drawn by laboratory unless stated in the report, if the sample drawn by the customer, the laboratory is not responsible for sampling stage.
11. (#) Mark indicates the tests are subcontracted to other accredited laboratory.



F.No: EL-GL-02