

Project: SEIAA-TN – Environmental Clearance - Proposed expansion of existing foundry for production of Grey & SG Iron castings from 1814 TPM to 6000 TPM by M/s. JS Auto Cast Foundry India Private Limited at Survey Nos. Plot No. KK5, KK6, KK7 (S.F. No. 127pt, 128pt, 131 & 132pt of Ingur Village & 213pt, 214pt & 215pt of Perundurai Village), SIPCOT Industrial Growth Centre, Perundurai Taluk, Erode District, Tamil Nadu - Category – “B1” and Schedule 3(a) – “Metallurgical Industries (Ferrous & Non-Ferrous)” under EIA Notification, 2006 as amended.

EC Letter No. : SEIAA-TN/F.No.7464/EC/3(a)/99/2022 dated: 17.06.2022

S. No.	Condition	Status of compliance
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.	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 is not located within the Eco Sensitive Zone.
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 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	We have obtained Consent to Establish – Expansion from TNPCB vide TNPCB Proceedings No. T1/TNPCB/F. 1097PND/OL/PND/W&A/2023 dated 12.08.2023 and copy of the same is

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	Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	enclosed in Annexure – III . We have also obtained Consent to Operate - Expansion from TNPCB vide TNPCB Proceedings no. T1/TNPCB/F.1097PND/OL/PND/W&A/2024 dated 30.05.2024 which is valid up to 31.03.2028 and copy of the same is enclosed in Annexure – IV .
v.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	We have obtained authorization under Hazardous and Other Waste Management Rules vide TNPCB Proceedings No. T2/TNPCB/F.1097PND/HWA/OL/PND/2022 dated 26.10.2022 which is valid up to 31.03.2027 and copy of the same is enclosed in Annexure – V .
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 are complying with Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 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 systems from time to time according to equipment supplier specification through labs recognised under Environment (protection) Act, 1986 or NABL accredited laboratories.	The process stack attached to induction furnace is provided with 24x7 continuous emission monitoring system to monitor particulate matter and the same is connected to TNPCB online server.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter	We are monitoring the fugitive emissions in the plant premises on monthly basis and reports of the same

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	through labs recognized under Environment (protection) Act, 1986.	is enclosed as Annexure – VI.
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 ₁₀ and PM ₂₅ in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x 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 maintained properly to achieve the source & fugitive emission standards. No coal fired boilers are provided in the plant. The gaseous emissions are dispersed through stack of adequate height as per the 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	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 following the emission standards prescribed for foundry industry.

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vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be complied with.	We are complying with National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 by conducting monthly Ambient Air Quality monitoring. The AAQ monitoring reports are enclosed as Annexure – VII.
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)	No trade effluent is generated from the plant.
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).	No trade effluent is generated from our plant operations.
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.	No trade effluent is generated from our plant.
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 is not exceeding the planned quantity of 71 KLD. Water supply agreement has been signed with SIPCOT & copy of the agreement is enclosed in Annexure – VIII.
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	The sewage is not allowed to mix with storm water. The storm water is collected through separate storm water drains.

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	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.	The rainwater from roof tops and storm water drains are recharged through percolation pits and ensured to utilize the same for industrial operations.
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 to achieve the emission standards.
D	Noise Monitoring and Prevention	
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. Noise monitoring reports are enclosed as Annexure – IX .
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.
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.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management plan is implemented. HIRA report is enclosed as Annexure – X .
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.	Required arrangements has been made for the protection of possible fire hazards during manufacturing process. Fire-fighting system is in place as per the norms.

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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 (PPEs).
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.	Required training is provided to workers on safety and health aspects. Pre-employment and routine medical examination is undertaken for all the workers on regular basis. Copy of medical examination report is enclosed as Annexure – XI .
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 were provided for the construction labours during the construction period.
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 is provided to the workers regularly and the records of the same is maintained.
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 are utilized for parking.
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 1 st 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 st May 2018 regarding CER activity.
ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The	The unit is having an environmental policy duly approved by the Board of Directors. Copy of the policy along with

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	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.	EMS certificate is enclosed as Annexure - XII . We also have defined system of reporting deviation and violation of the environmental norms / conditions to 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 is headed by VP – Foundry and supported by officers from different departments. The organogram of the Environmental Cell is enclosed as Annexure – XIII .
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise process of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six-Monthly Compliance Report.	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. We agree to submit the year wise implementation of action plan to the IRO of MoEF&CC along with the Six-Monthly Compliance Report.
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. Copy of the internal audit report is enclosed as Annexure – XIV . This is

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		year it is planned to conduct.
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.	Hazardous chemicals are stored in tanks, carboys etc. alone and flame arresters are also provided on storage area of fuel and chemicals.
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 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: 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	We have undertaken lot of waste minimization measures like reuse of scraps / runner & risers, closed feed system, etc.
	Air Environment	
1.	Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.	The stack emission concentration levels are maintained well within the permissible limits. Stack monitoring reports are enclosed as Annexure - XV .
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 to induction furnace and connected the same with TNPCB server.
3.	Effective fugitive emission control	Fugitive emission control measures are

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	measures should be imposed in the process, transportation, packing etc.	followed at all sources of generation.
4.	Transportation of materials by mil / conveyor belt, wherever feasible.	We have adopted mechanical methods to transport materials wherever possible.
5.	Encourage use of cleaner fuels (pet coke / furnace oil LSHS may be avoided).	We are using Low sulphur diesel in the DG sets.
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 which is latest and best available.
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%. Photographs of the green belt is enclosed as Annexure - XVI .
8.	Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	We have developed green belt in the OSR land of 1.0 acre belonging to SIPCOT and planted trees on the SIPCOT approach roads.
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.
Water Environment		
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).	There is no effluent generation from our plant. The treated sewage is regularly tested for its quality is maintained within the standards. Copy of the sewage analysis reports are enclosed as Annexure - XVII .
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 achieve the ZLD.

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	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.	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	We have developed green belt in the OSR land of 1.0 acre belonging to SIPCOT and planted trees on the SIPCOT approach roads.
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 it is 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 wastes generated from the plant are disposed to TNPCB authorized recyclers and pre-processors for co-processing in cement plant.
5.	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Compliance of EC conditions is submitted with third party audit every year through NABL accredited lab, M/s. Enviro Solutions & Labs.
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.
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 st June and 1 st 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 st June and 1 st 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	CTE Expansion has been obtained from TNPCB vide Board Proceedings No. T1/TNPCB/F.1097PND/OL/PND/ W& A/2023 dated 12.08.2023 before start the construction activities.

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	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.	CTO Expansion has been obtained from TNPCB vide Board Proceedings no. T1/TNPCB/F.1097PND/OL/PND/W&A /2024 dated 30.05.2024 which is valid up to 31.03.2028. Copy of the same has been submitted to SEIAA.
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 are properly implemented as proposed. Regular monitoring are 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 evaporator is provided or proposed in the 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.	Best housekeeping practices are ensured at all locations within the plant premises specifically in raw material and product handling inside the unit premises. We are implementing "5S" system in maintaining good housekeeping practices.
viii.	Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.	We have provided the Do's and Don'ts of all chemicals handled in the display boards with in the project site.

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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 / pre-processors. The spent oil from DG sets are stored in HDPE drums in an isolated covered facility.
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 plant 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 ₁₀ , PM _{2.5} , SO _x , NO _x , 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 through NABL Accredited Laboratory and once in a year through TNPCB laboratory and maintain records of the same.
xvi.	Regular monitoring on the air quality, water quality and noise on the selected	We are carrying out regular monitoring for air, water and noise

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	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.	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 facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.	An Environmental Management Cell and Safety Management Cell are created which is headed by VP – Foundry and supported by officers from different departments for the implementation of the stipulated environmental safeguards.
xviii.	The Green belt area already developed within the project area shall be properly maintained.	We are properly maintaining the greenbelt developed within 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 are maintained along the plant periphery as per the CPCB guidelines.
xx.	The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.	We are continuously improving the greenbelt development 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.	It is ensured that the effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area.
xxii.	The energy sources for lighting purposes shall preferably be LED based.	We have provided 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 are conducting the air sampling once in a month through NABL Accredited Laboratory and once in a year through TNPCB laboratory and

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		maintain records of the same.
xxiv.	Risk cum disaster management plan should be in place in the industry premises at all time.	The disaster management plan is made in place 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.	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 without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras	Noted and agreed.
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.	Detail study has been carried out by engaging accredited agencies for Risk management and Disaster management plan.
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	The hazardous waste storage area is properly ventilated for free air circulation.

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	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.	We have carryout safety audit at different operating zones of the plant during 2023. Copy of the report is enclosed as Annexure - XVIII .
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.	A medical officer with required supporting staffs involved in the health centre activities are trained in occupational health surveillance (OHS) aspects through the outsourced training.
xxxvi.	The activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.	The industrial activity is not causing any impact on the nearby agricultural and irrigation lands.
xxvii.	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.	The EMP cost for operation and maintenance are spent for the respective purpose without diverting the same. Head wise expenses has been submitted to TNPCB and SEIAA annually.
xxviii.	There should be no threat to Bio diversity due to the operation of the industry.	The industrial operation is not causing any impact to the biodiversity of the surrounding area.

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xxxix.	The flora & fauna present in and around the project site should not get affected due to the activity as reported.	No impacts are 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 adequate No of rain water harvesting pits to recharge the ground water. We also recharge through existing open well.
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 is not causing 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 report of risk assessment process (HIRA) for all the operations involved in the plant and it is enclosed.
xliii.	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 monitoring the VOCs in regular intervals and maintain the VOC levels within permissible limits. Copy of the report is enclosed as Annexure-XIX .

Part I - General Conditions:

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1.	This Environmental Clearance shall not be cited to relax any other rules applicable to this Project.	Noted and agreed 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 details of Environmental Clearance in Makkal Kural (Tamil) on 25 th June 2022 & The New Indian Express (English) on 24 th June 2022. Copy of the advertisement is enclosed Annexure - II .

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	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 the copy of our Environmental Clearance to the local body.
4.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (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 displaying the results 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 website, https://www.jsautocast.com/certifications/environmental-clearance-policy.pdf
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.	No expansion or modernization in the project has been carried out 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	We are regularly submitting the Environmental Statement (Form-V) to TNPCB before 30 th September of every year has been enclosed in Annexure - XX .

S. No.	Condition	Status of compliance
	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, CPCB and TNPCB.
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 ₂ , and NO _x outside the premises at the appropriate place for the general public.	We are submitting the six- monthly compliance report in soft and hard copies regularly to the Regional Office of MoEF&CC at Chennai, TNPCB and CPCB.
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 being carried out to the workers regularly and the records of the same is maintained.
12.	Proper house-keeping and cleanliness must be maintained within and outside the plant.	We maintain 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	Occupational health surveillance programme is being undertaken regularly for all the employees. Adequate first aid facilities are provided in appropriate places including Occupational Health Centre. The medical records of each employee are maintained.
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	The overall noise levels in and around the plant area is maintained well within the standards prescribed by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise

S. No.	Condition	Status of compliance
	should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	levels are maintained within the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
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 which is headed by VP – 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 provided shall not be diverted for any other purposes.	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 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 ₂ , NO _x (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 it is updated periodically. We have 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	We are regularly submitting the Environmental Statement (Form-V) to TNPCB before 30 th September of every year.

S. No.	Condition	Status of compliance
	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.	
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.
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.
22.	The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.	Noted and agreed to comply.
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	We are complying with all the conditions imposed in our

S. No.	Condition	Status of compliance
	in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.	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.
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.
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.	Noted and agreed the same.



Enviro Solutions & Labs

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TEST REPORT

Issued To

JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2404/AAQ/7146
Report Date : 22.04.2024
Sample Code : ESL2404293-294

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Commenced On	16.04.2024	Analysis Completed On	22.04.2024

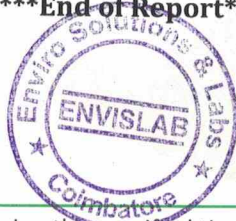
S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ1	AAQ2		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	58.2	71.5	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	26.9	23.7	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	5.7	6.4	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	18.3	20.1	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 1 - Near Security Gate (North East Side of the Plant)

AAQ 2 - Near Weigh Bridge (South East Side of the Plant)

End of Report



Authorised Signatory

I. Ram Ganesan
22/4/24
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2404/AAQ/7147
Report Date : 22.04.2024
Sample Code : ESL2404295-296

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Commenced On	16.04.2024	Analysis Completed On	22.04.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ3	AAQ4		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	66.6	68.0	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	25.3	22.8	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	6.9	8.1	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	15.5	18.7	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/C1:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 3 - North West Side of the Plant

AAQ 4 - South West Side of the Plant

End of Report



Authorised Signatory

I. Ram Ganesan
22/4/24
I. Ram Ganesan
Technical Manager

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JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2405/AAQ/7568
Report Date : 31.05.2024
Sample Code : ESL2405449-450

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Commenced On	27.05.2024	Analysis Completed On	31.05.2024

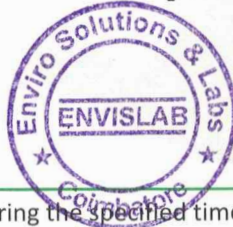
S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ1	AAQ2		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	56.1	58.5	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	24.3	21.4	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	5.2	6.1	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	17.5	18.6	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 1 - Near Security Gate (North East Side of the Plant)

AAQ 2 - Near Weigh Bridge (South East Side of the Plant)

End of Report



Authorised Signatory

I. Ram Ganesan
31/5/24
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2405/AAQ/7569
Report Date : 31.05.2024
Sample Code : ESL2405451-452

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Commenced On	27.05.2024	Analysis Completed On	31.05.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ3	AAQ4		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	57.2	60.8	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	23.4	20.7	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	6.2	7.6	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	14.1	17.3	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: PQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 3 - North West Side of the Plant

AAQ 4 - South West Side of the Plant

End of Report



Authorised Signatory

I. Ram Ganesan
31/5/24
I. Ram Ganesan
Technical Manager

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TEST REPORT

Issued To

JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/AAQ/7948
Report Date : 03.07.2024
Sample Code : ESL2406424-425

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.06.2024	Sample Received On	27.06.2024
Analysis Commenced On	27.06.2024	Analysis Completed On	03.07.2024

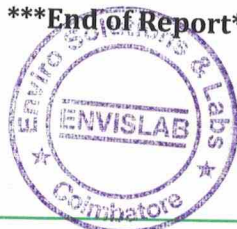
S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ1	AAQ2		
1	Particulate Matter size less than 10- μm (PM ₁₀), $\mu\text{g}/\text{m}^3$	52.9	61.6	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm (PM _{2.5}), $\mu\text{g}/\text{m}^3$	20.2	24.0	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	5.5	6.3	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	14.3	17.1	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 1 - Near Security Gate (North East Side of the Plant)

AAQ 2 - Near Weigh Bridge (South East Side of the Plant)

End of Report



Authorised Signatory

I. Ram Ganesan
Technical Manager

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TEST REPORT

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JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/AAQ/7949
Report Date : 03.07.2024
Sample Code : ESL2406426-427

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.06.2024	Sample Received On	27.06.2024
Analysis Commenced On	27.06.2024	Analysis Completed On	03.07.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ3	AAQ4		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	54.4	57.9	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	22.0	21.6	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	5.8	7.1	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	14.6	18.0	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 3 - North West Side of the Plant

AAQ 4 - South West Side of the Plant

End of Report



Authorised Signatory

T. Ram Ganesan
T. Ram Ganesan
Technical Manager

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TEST REPORT

Issued To

JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/AAQ/8706
Report Date : 05.09.2024
Sample Code : ESL2408376-377

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Commenced On	30.08.2024	Analysis Completed On	05.09.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ1	AAQ2		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	55.0	64.8	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	22.7	26.3	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	5.9	6.6	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	12.5	15.8	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 1 - Near Security Gate (North East Side of the Plant)

AAQ 2 - Near Weigh Bridge (South East Side of the Plant)

End of Report



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/AAQ/8707
Report Date : 05.09.2024
Sample Code : ESL2408378-379

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Ambient Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Commenced On	30.08.2024	Analysis Completed On	05.09.2024

S.No	Parameters	Results		Test Method	NAAQ Standards
		AAQ3	AAQ4		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	57.2	54.6	IS 5182 (P23):2006(RA:2017)	100
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	24.1	20.8	IS: 5182 (P-24) :2019	60
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	6.5	6.9	IS 5182 (P-2):2006(RA:2017)	80
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	13.9	16.3	IS 5182 (P-6):2006(RA:2017)	80
5	Carbon Monoxide (CO), mg/m^3	BQL (LOQ:1.0)	BQL (LOQ:1.0)	ESL/SOP/02:2023	2
6	Ozone, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	IS 5182 (P- 9):1974(RA:2019)	180
7	Ammonia, $\mu\text{g}/\text{m}^3$	BQL (LOQ:5)	BQL (LOQ:5)	ESL/SOP/01:2023	400
8	Lead (Pb), $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.025)	BQL (LOQ:0.025)	IS 5182 (P22):2004(RA:2019)	1
9	Benzene, $\mu\text{g}/\text{m}^3$	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P11):2006(RA:2017)	5
10	Benzo(a)pyrene, ng/m^3	BQL (LOQ:0.5)	BQL (LOQ:0.5)	IS 5182 (P12):2004(RA:2019)	1
11	Arsenic, ng/m^3	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/19:2024	6
12	Nickel, ng/m^3	BQL (LOQ:2.5)	BQL (LOQ:2.5)	USEPA IO - 3.2	20

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

AAQ 3 - North West Side of the Plant

AAQ 4 - South West Side of the Plant

End of Report



Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

Report No. : ESL/2404/N/7153
Report Date : 22.04.2024
Sample Code : ESL2404306

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Ambient & Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024

S. No.	Location	Ambient Noise Level [dB(A)]	
		Day	Night
1	North Eastern Side of the Plant	59.4	54.8
2	North Western Side of the plant	63.9	52.6
3	South Eastern Side of the plant	61.5	53.1
4	South Western Side of the plant	66.7	54.9
* CPCB Standards (Industrial Area)		75	70
Source Noise			
1	Knockout Area	86.9	
2	Melting Area	83.2	
3	Pouring Area	76.8	
4	Sand Plant	86.4	
5	Fettling Area (Robo Finish)	87.1	
6	Shot Blast Area	85.9	
7	Fettling Area	83.2	
8	Near Swing Machine 08	82.9	
*Standards :The Factories Act 1948		90	

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I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
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Perundurai - 638052 .

Report No. : ESL/2404/N/7153 A
Report Date : 22.04.2024
Sample Code : ESL2404306 A

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sample Collected On	15.04.2024	Sample Received On	16.04.2024

S. No.	Location	Results		
		Inside	Outside	Insertion Loss
1	Diesel Generator - 2000 KVA	107.3	82.2	25.1
Limits				>25.0

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I. Ram Ganesan
22/4/24
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

Report No. : ESL/2405/N/7575
Report Date : 31.05.2024
Sample Code : ESL2405462

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Ambient & Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024

S. No.	Location	Ambient Noise Level [dB(A)]	
		Day	Night
1	North Eastern Side of the Plant	59.1	54.3
2	North Western Side of the plant	63.2	52.1
3	South Eastern Side of the plant	61.0	52.9
4	South Western Side of the plant	66.1	54.2
* CPCB Standards (Industrial Area)		75	70
Source Noise			
1	Knockout Area	86.3	
2	Melting Area	83.0	
3	Pouring Area	76.4	
4	Sand Plant	86.2	
5	Fettling Area (Robo Finish)	86.8	
6	Shot Blast Area	85.3	
7	Fettling Area	83.0	
8	Near Swing Machine 08	82.4	
*Standards :The Factories Act 1948		90	

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Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

Report No. : ESL/2405/N/7576
Report Date : 31.05.2024
Sample Code : ESL2405463

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sample Collected On	25.05.2024	Sample Received On	27.05.2024

S. No.	Location	Results		
		Inside	Outside	Insertion Loss
1	Diesel Generator – 2000 KVA	107.3	82.1	25.2
Limits				>25.0

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Authorised Signatory
I. Ram Ganesan
31/5/24
I. Ram Ganesan
Technical Manager

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Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

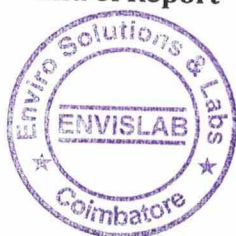
Report No. : ESL/2407/N/7955
Report Date : 03.07.2024
Sample Code : ESL2406437

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Ambient & Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	26.06.2024	Sample Received On	27.06.2024

S. No.	Location	Ambient Noise Level [dB(A)]	
		Day	Night
1	North Eastern Side of the Plant	61.3	53.8
2	North Western Side of the plant	64.0	50.6
3	South Eastern Side of the plant	59.1	53.4
4	South Western Side of the plant	62.5	51.7
* CPCB Standards (Industrial Area)		75	70
Source Noise			
1	Knockout Area	84.9	
2	Melting Area	81.6	
3	Pouring Area	79.3	
4	Sand Plant	85.7	
5	Fettling Area (Robo Finish)	87.1	
6	Shot Blast Area	87.9	
7	Fettling Area	84.5	
8	Near Swing Machine 08	86.8	
*Standards :The Factories Act 1948		90	

End of Report



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Perundurai - 638052 .

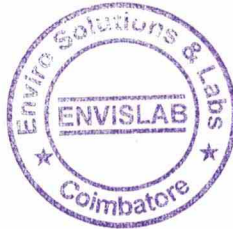
Report No. : ESL/2407/N/7956
Report Date : 03.07.2024
Sample Code : ESL2406438

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sample Collected On	26.06.2024	Sample Received On	27.06.2024

S. No.	Location	Results		
		Inside	Outside	Insertion Loss
1	Diesel Generator – 2000 KVA	106.4	81.3	25.1
Limits				>25.0

.... End of Report....



Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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TEST REPORT

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

Report No. : ESL/2408/N/8392
Report Date : 05.08.2024
Sample Code : ESL2408462

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Ambient & Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	27.07.2024	Sample Received On	29.07.2024

S. No.	Location	Ambient Noise Level [dB(A)]	
		Day	Night
1	North Eastern Side of the Plant	63.8	55.6
2	North Western Side of the plant	65.0	53.2
3	South Eastern Side of the plant	62.4	55.7
4	South Western Side of the plant	61.6	54.3
* CPCB Standards (Industrial Area)		75	70
Source Noise			
1	Knockout Area	87.1	
2	Melting Area	83.0	
3	Pouring Area	81.4	
4	Sand Plant	86.9	
5	Fettling Area (Robo Finish)	88.6	
6	Shot Blast Area	88.1	
7	Fettling Area	86.8	
8	Near Swing Machine 08	87.3	
*Standards :The Factories Act 1948		90	

End of Report



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

Report No. : ESL/2408/N/8393
Report Date : 05.08.2024
Sample Code : ESL2408463

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sample Collected On	27.07.2024	Sample Received On	29.07.2024

S. No.	Location	Results		
		Inside	Outside	Insertion Loss
1	Diesel Generator – 2000 KVA	105.9	80.6	25.3
Limits				>25.0

.... End of Report....



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

Report No. : ESL/2408/N/8713
Report Date : 05.09.2024
Sample Code : ESL2408389

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Ambient & Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	28.08.2024	Sample Received On	30.08.2024

S. No.	Location	Ambient Noise Level [dB(A)]	
		Day	Night
1	North Eastern Side of the Plant	64.6	55.1
2	North Western Side of the plant	65.8	51.3
3	South Eastern Side of the plant	59.9	52.7
4	South Western Side of the plant	60.2	48.4
* CPCB Standards (Industrial Area)		75	70
Source Noise			
1	Knockout Area	86.3	
2	Melting Area	80.8	
3	Pouring Area	78.6	
4	Sand Plant	87.3	
5	Fettling Area (Robo Finish)	87.9	
6	Shot Blast Area	88.3	
7	Fettling Area	86.9	
8	Near Swing Machine 08	87.7	
*Standards :The Factories Act 1948		90	

End of Report



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Industrial Growth Centre, SIPCOT,
Perundurai - 638052 .

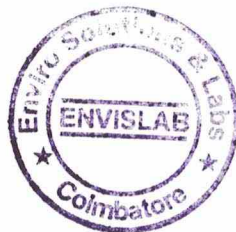
Report No. : ESL/2408/N/8714
Report Date : 05.09.2024
Sample Code : ESL2408390

SAMPLE DETAILS

Nature of Sample	Noise Level	Sample Description	Source Noise
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sample Collected On	28.08.2024	Sample Received On	30.08.2024

S. No.	Location	Results		
		Inside	Outside	Insertion Loss
1	Diesel Generator – 2000 KVA	105.9	80.6	25.3
Limits				>25.0

.... End of Report....



Authorised Signatory

I. Ram Ganesan
8/9/24
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2404/IAQ/7148
Report Date : 22.04.2024
Sample Code : ESL2404297-298

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Commenced On	16.04.2024	Analysis Completed On	22.04.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ1	IAQ2		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	331	374	IS 5182 (P23):2006(RA:2017)	15000
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	124	186	IS: 5182 (P-24) :2019	5000
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	10.2	13.0	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	23.5	27.1	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 1 - Near Melting Area

IAQ 2 - Near Fettling Area

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Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai – 638052.

Report No. : ESL/2404/IAQ/7149
Report Date : 22.04.2024
Sample Code : ESL2404299-300

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Commenced On	16.04.2024	Analysis Completed On	22.04.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ3	IAQ4		
1	Particulate Matter size less than 10- μm (PM ₁₀), $\mu\text{g}/\text{m}^3$	196	572	IS 5182 (P23):2006(RA:2017)	15000
2	Particulate Matter size less than 2.5- μm (PM _{2.5}), $\mu\text{g}/\text{m}^3$	86	199	IS: 5182 (P-24) :2019	5000
3	Sulphur Dioxide (SO ₂), $\mu\text{g}/\text{m}^3$	8.2	7.4	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), $\mu\text{g}/\text{m}^3$	23.6	20.9	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ – Limit of Quantification

IAQ 3 – Near Pouring Area
IAQ 4 – Near Sand Plant Area

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Authorised Signatory

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22/4/24
I. Ram Ganesan
Technical Manager

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Perundurai - 638052.

Report No. : ESL/2405/IAQ/7570
Report Date : 31.05.2024
Sample Code : ESL2405453-454

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Commenced On	27.05.2024	Analysis Completed On	31.05.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ1	IAQ2		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	324	357	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	118	173	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	9.8	11.9	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	21.7	25.8	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 1 - Near Melting Area

IAQ 2 - Near Fetting Area

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Authorized Signatory

I. Ram Ganesan
31/5/24
I. Ram Ganesan
Technical Manager

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Perundurai - 638052.

Report No. : ESL/2405/IAQ/7571
Report Date : 31.05.2024
Sample Code : ESL2405455-456

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Commenced On	27.05.2024	Analysis Completed On	31.05.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ3	IAQ4		
1	Particulate Matter size less than 10- μm (PM_{10}), $\mu\text{g}/\text{m}^3$	184	558	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- μm ($\text{PM}_{2.5}$), $\mu\text{g}/\text{m}^3$	80	181	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO_2), $\mu\text{g}/\text{m}^3$	7.9	6.9	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO_2), $\mu\text{g}/\text{m}^3$	22.1	19.3	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 3 - Near Pouring Area

IAQ 4 - Near Sand Plant Area

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Authorised Signatory

I. Ram Ganesan
31/5/24
I. Ram Ganesan
Technical Manager

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Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/IAQ/7950
Report Date : 03.07.2024
Sample Code : ESL2406428-429

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Commenced On	27.06.2024	Analysis Completed On	03.07.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ1	IAQ2		
1	Particulate Matter size less than 10- µm (PM ₁₀), µg/m ³	265	303	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- µm (PM _{2.5}), µg/m ³	102	136	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO ₂), µg/m ³	7.6	10.1	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), µg/m ³	20.3	23.8	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 1 - Near Melting Area

IAQ 2 - Near Fettling Area

.... End of Report....



Authorised Signatory

I. Ram Ganesan
3/7/24
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/IAQ/7951
Report Date : 03.07.2024
Sample Code : ESL2406430-431

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Commenced On	27.06.2024	Analysis Completed On	03.07.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ3	IAQ4		
1	Particulate Matter size less than 10- µm (PM ₁₀), µg/m ³	159	387	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- µm (PM _{2.5}), µg/m ³	93	196	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO ₂), µg/m ³	6.5	5.9	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), µg/m ³	18.6	16.2	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 3 - Near Pouring Area

IAQ 4 - Near Sand Plant Area

.... End of Report....



Authorised Signatory

I. Ram Ganesan
3/7/24
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/IAQ/8389
Report Date : 05.08.2024
Sample Code : ESL2407456-457

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	27.07.2024	Sample Received On	29.07.2024
Analysis Commenced On	29.07.2024	Analysis Completed On	05.08.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ1	IAQ2		
1	Particulate Matter size less than 10- µm (PM ₁₀), µg/m ³	713	1100	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- µm (PM _{2.5}), µg/m ³	405	657	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO ₂), µg/m ³	15.3	19.6	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), µg/m ³	27.9	32.3	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 1 - Near Melting Area

IAQ 2 - Near Fettling Area

.... End of Report....



Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/IAQ/8390
Report Date : 05.08.2024
Sample Code : ESL2408458-459

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	27.07.2024	Sample Received On	29.07.2024
Analysis Commenced On	29.07.2024	Analysis Completed On	05.08.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ3	IAQ4		
1	Particulate Matter size less than 10- μ m (PM ₁₀), μ g/m ³	1306	998	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- μ m (PM _{2.5}), μ g/m ³	719	501	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO ₂), μ g/m ³	5.9	13.6	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), μ g/m ³	24.7	28.2	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 3 - Near Pouring Area

IAQ 4 - Near Sand Plant Area

.... End of Report....



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/IAQ/8708
Report Date : 05.09.2024
Sample Code : ESL2408380-381

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	29.08.2024	Sample Received On	30.08.2024
Analysis Commenced On	30.08.2024	Analysis Completed On	05.09.2024

S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ1	IAQ2		
1	Particulate Matter size less than 10- µm (PM ₁₀), µg/m ³	764	1312	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- µm (PM _{2.5}), µg/m ³	431	710	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO ₂), µg/m ³	17.1	22.7	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), µg/m ³	31.0	35.6	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 1 - Near Melting Area

IAQ 2 - Near Fettling Area

.... End of Report....



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
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Perundurai - 638052.

Report No. : ESL/2408/IAQ/8709
Report Date : 05.09.2024
Sample Code : ESL2408382-383

SAMPLE DETAILS

Nature of Sample	Air Quality	Sample Description	Indoor Air
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	As Mentioned Below
Sample Collected On	29.08.2024	Sample Received On	30.08.2024
Analysis Commenced On	30.08.2024	Analysis Completed On	05.09.2024

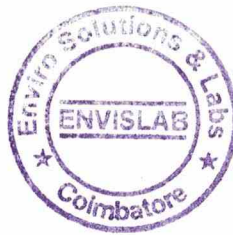
S.No	Parameters	Results		Test Method	OSHA Standards
		IAQ3	IAQ4		
1	Particulate Matter size less than 10- µm (PM ₁₀), µg/m ³	1054	1536	IS 5182 (P23):2006(RA:2017)	5000
2	Particulate Matter size less than 2.5- µm (PM _{2.5}), µg/m ³	632	808	IS: 5182 (P-24) :2019	---
3	Sulphur Dioxide (SO ₂), µg/m ³	14.1	17.5	ESL/SOP/13:2023	13088
4	Nitrogen Dioxide (NO ₂), µg/m ³	26.3	30.1	ESL/SOP/09:2023	9407
5	Carbon Monoxide (CO), ppm	BQL (LOQ:1)	BQL (LOQ:1)	ESL/SOP/20:2024	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

IAQ 3 - Near Pouring Area

IAQ 4 - Near Sand Plant Area

.... End of Report....



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai – 638052.

Report No. : ESL/2404/SM/7150
Report Date : 22.04.2024
Sample Code : ESL2404301-302

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Started On	16.04.2024	Analysis Completed On	22.04.2024

S. No	STACK DETAILS	Induction Furnace (1x 3 Ton)	Shot Blasting Machine (I Ton)
1	Stack height (m)	22	12
2	Stack Diameter (m)	1.6	0.55
3	Cross Sectional Area (m ²)	2.0096	0.2375
4	Velocity of Flue Gas (m/sec)	13.1	10.4
5	Gas Discharge (Nm ³ /hr)	88710	8431
6	Stack gas temperature (K)	312	308
7	Ambient Gas Temp (K)	306	306

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Induction Furnace (1x 3 Ton)	52.4	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Shot Blasting Machine (I Ton)	59.1	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ – Limit of Quantification.

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Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2404/SM/7151
Report Date : 22.04.2024
Sample Code : ESL2404303-304

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Started On	16.04.2024	Analysis Completed On	22.04.2024

S. No	STACK DETAILS	Knock Out Machine	Sand Plant & DISA Cool
1	Stack height (m)	15	22
2	Stack Diameter (m)	1.0	1.6
3	Cross Sectional Area (m ²)	0.785	2.01
4	Velocity of Flue Gas (m/sec)	12.8	11.6
5	Gas Discharge (Nm ³ /hr)	34410	79331
6	Stack gas temperature (K)	307	309
7	Ambient Gas Temp (K)	306	306

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Knock Out Machine	46.7	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Sand Plant & DISA Cool	56.2	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification.

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Perundurai - 638052.

Report No. : ESL/2404/SM/7152
Report Date : 22.04.2024
Sample Code : ESL2404305

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Started On	16.04.2024	Analysis Completed On	22.04.2024

S. No.	STACK DETAILS	DG Set 2000 KVA
1	Stack height (m)	30
2	Stack Diameter (m)	0.45
3	Cross Sectional Area (m ²)	0.159
4	Velocity of Flue Gas (m/sec)	17.5
5	Gas Discharge (Nm ³ /hr)	7332
6	Stack gas temperature (K)	399
7	Ambient Gas Temp (K)	306

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Oxides of Nitrogen (ppm)	Carbon Monoxide (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Carbon Dioxide (%)
1	DG Set 2000 KVA	39.6	165	129	4.9	2.4
Standards		75	710	150	---	---

*As per Environmental Protection Act 1986 the Emission standard for diesel generator set for more than 800KW amendment rule vide GSR 489(E) dated 9th July 2002.

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Report No. : ESL/2405/SM/7572
Report Date : 31.05.2024
Sample Code : ESL2405457-458

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Started On	27.05.2024	Analysis Completed On	31.05.2024

S. No	STACK DETAILS	Induction Furnace (1x 3 Ton)	Shot Blasting Machine (I Ton)
1	Stack height (m)	22	12
2	Stack Diameter (m)	1.6	0.55
3	Cross Sectional Area (m ²)	2.0096	0.2375
4	Velocity of Flue Gas (m/sec)	12.2	10.1
5	Gas Discharge (Nm ³ /hr)	81828	8161
6	Stack gas temperature (K)	315	309
7	Ambient Gas Temp (K)	305	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Induction Furnace (1x 3 Ton)	47.6	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Shot Blasting Machine (I Ton)	53.4	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification.

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Report No. : ESL/2405/SM/7573
Report Date : 31.05.2024
Sample Code : ESL2405459-460

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Started On	27.05.2024	Analysis Completed On	31.05.2024

S. No	STACK DETAILS	Knock Out Machine	Sand Plant & DISA Cool
1	Stack height (m)	15	22
2	Stack Diameter (m)	1.0	1.6
3	Cross Sectional Area (m ²)	0.785	2.01
4	Velocity of Flue Gas (m/sec)	12.2	11.0
5	Gas Discharge (Nm ³ /hr)	32690	74984
6	Stack gas temperature (K)	308	310
7	Ambient Gas Temp (K)	305	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Knock Out Machine	43.9	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Sand Plant & DISA Cool	51.7	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ – Limit of Quantification.

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Report No. : ESL/2405/SM/7574
Report Date : 31.05.2024
Sample Code : ESL2405461

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Started On	27.05.2024	Analysis Completed On	31.05.2024

S. No.	STACK DETAILS	DG Set 2000 KVA
1	Stack height (m)	30
2	Stack Diameter (m)	0.45
3	Cross Sectional Area (m ²)	0.159
4	Velocity of Flue Gas (m/sec)	16.8
5	Gas Discharge (Nm ³ /hr)	6702
6	Stack gas temperature (K)	419
7	Ambient Gas Temp (K)	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Oxides of Nitrogen (ppm)	Carbon Monoxide (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Carbon Dioxide (%)
1	DG Set 2000 KVA	36.2	158	116	5.3	2.7
Standards		75	710	150	---	---

*As per Environmental Protection Act 1986 the Emission standard for diesel generator set for more than 800KW amendment rule vide GSR 489(E) dated 9th July 2002.

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Authorised Signatory

I. Ram Ganesan
31/5/24
I. Ram Ganesan
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Report No. : ESL/2407/SM/7952
Report Date : 03.07.2024
Sample Code : ESL2406432-433

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S. No	STACK DETAILS	Induction Furnace (1x 3 Ton)	Shot Blasting Machine (I Ton)
1	Stack height (m)	22	12
2	Stack Diameter (m)	1.6	0.55
3	Cross Sectional Area (m ²)	2.0096	0.2375
4	Velocity of Flue Gas (m/sec)	12.9	14.3
5	Gas Discharge (Nm ³ /hr)	87636	11631
6	Stack gas temperature (K)	311	307
7	Ambient Gas Temp (K)	305	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Induction Furnace (1x 3 Ton)	51.3	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Shot Blasting Machine (I Ton)	55.9	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification.

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3/7/24
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Report No. : ESL/2407/SM/7953
Report Date : 03.07.2024
Sample Code : ESL2406434-435

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S. No	STACK DETAILS	Knock Out Machine	Sand Plant & DISA Cool
1	Stack height (m)	15	22
2	Stack Diameter (m)	1.0	1.6
3	Cross Sectional Area (m ²)	0.785	2.01
4	Velocity of Flue Gas (m/sec)	14.8	12.5
5	Gas Discharge (Nm ³ /hr)	39529	85763
6	Stack gas temperature (K)	309	308
7	Ambient Gas Temp (K)	305	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Knock Out Machine	41.7	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Sand Plant & DISA Cool	53.4	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification.

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Report No. : ESL/2407/SM/7954
Report Date : 03.07.2024
Sample Code : ESL2406436

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S. No.	STACK DETAILS	DG Set 2000 KVA
1	Stack height (m)	30
2	Stack Diameter (m)	0.45
3	Cross Sectional Area (m ²)	0.159
4	Velocity of Flue Gas (m/sec)	17.3
5	Gas Discharge (Nm ³ /hr)	6528
6	Stack gas temperature (K)	443
7	Ambient Gas Temp (K)	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Oxides of Nitrogen (ppm)	Carbon Monoxide (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Carbon Dioxide (%)
1	DG Set 2000 KVA	40.1	174	105	4.9	3.1
Standards		75	710	150	---	---

*As per Environmental Protection Act 1986 the Emission standard for diesel generator set for more than 800KW amendment rule vide GSR 489(E) dated 9th July 2002.

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Report No. : ESL/2408/SM/8391
Report Date : 05.08.2024
Sample Code : ESL2408460-461

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	27.07.2024	Sample Received On	29.07.2024
Analysis Started On	29.07.2024	Analysis Completed On	05.08.2024

S. No	STACK DETAILS	Induction Furnace (1x 3 Ton)	Knock Out Machine
1	Stack height (m)	22	15
2	Stack Diameter (m)	1.6	1.0
3	Cross Sectional Area (m ²)	2.0096	0.785
4	Velocity of Flue Gas (m/sec)	14.0	16.5
5	Gas Discharge (Nm ³ /hr)	93604	43646
6	Stack gas temperature (K)	316	312
7	Ambient Gas Temp (K)	304	304

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Induction Furnace (1x 3 Ton)	48.6	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Knock Out Machine	51.3	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ – Limit of Quantification.

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Report No. : ESL/2408/SM/8710
Report Date : 05.09.2024
Sample Code : ESL2408384-385

SAMPLE DETAILS

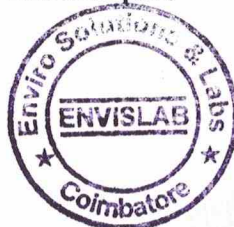
Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Started On	30.08.2024	Analysis Completed On	05.09.2024

S. No	STACK DETAILS	Induction Furnace (1x 3 Ton)	Shot Blasting Machine (I Ton)
1	Stack height (m)	22	12
2	Stack Diameter (m)	1.6	0.55
3	Cross Sectional Area (m ²)	2.0096	0.2375
4	Velocity of Flue Gas (m/sec)	13.6	11.9
5	Gas Discharge (Nm ³ /hr)	91509	9616
6	Stack gas temperature (K)	314	309
7	Ambient Gas Temp (K)	305	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Induction Furnace (1x 3 Ton)	55.3	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Shot Blasting Machine (I Ton)	58.1	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification.

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Perundurai - 638052.

Report No. : ESL/2408/SM/8711
Report Date : 05.09.2024
Sample Code : ESL2408386-387

SAMPLE DETAILS

Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Started On	30.08.2024	Analysis Completed On	05.09.2024

S. No	STACK DETAILS	Knock Out Machine	Sand Plant & DISA Cool
1	Stack height (m)	15	22
2	Stack Diameter (m)	1.0	1.6
3	Cross Sectional Area (m ²)	0.785	2.01
4	Velocity of Flue Gas (m/sec)	15.3	12.1
5	Gas Discharge (Nm ³ /hr)	41131	82750
6	Stack gas temperature (K)	307	309
7	Ambient Gas Temp (K)	305	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Oxides of Nitrogen (mg/Nm ³)	Carbon Monoxide (mg/Nm ³)	Carbon Dioxide (%)
1	Knock Out Machine	45.2	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
2	Sand Plant & DISA Cool	57.0	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:1)	BQL(LOQ:0.2)
*Standards		150

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification.

End of Report



Authorised Signatory

I. Ram Ganesan 5/9/24

I. Ram Ganesan
Technical Manager

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TEST REPORT

Issued To

JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/SM/8712
Report Date : 05.09.2024
Sample Code : ESL2408388

SAMPLE DETAILS

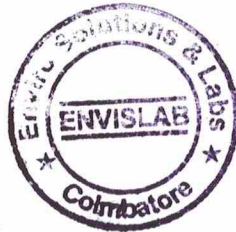
Nature of Sample	Source Emission Monitoring	Sample Description	Stack monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	Method : IS 11255 Part 1	Sample Location	As Mentioned Below
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Started On	30.08.2024	Analysis Completed On	05.09.2024

S. No.	STACK DETAILS	DG Set 2000 KVA
1	Stack height (m)	30
2	Stack Diameter (m)	0.45
3	Cross Sectional Area (m ²)	0.159
4	Velocity of Flue Gas (m/sec)	16.8
5	Gas Discharge (Nm ³ /hr)	5863
6	Stack gas temperature (K)	479
7	Ambient Gas Temp (K)	305

S. No	Stack Attached To	RESULTS				
		Particulate Matter (mg/Nm ³)	Oxides of Nitrogen (ppm)	Carbon Monoxide (mg/Nm ³)	Sulphur Dioxide (mg/Nm ³)	Carbon Dioxide (%)
1	DG Set 2000 KVA	35.3	201	113	4.5	2.6
Standards		75	710	150	---	---

*As per Environmental Protection Act 1986 the Emission standard for diesel generator set for more than 800KW amendment rule vide GSR 489(E) dated 9th July 2002.

End of Report



Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai – 638052.

Report No. : ESL/2404/W/7154
Report Date : 22.04.2024
Sample Code : ESL2404307

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP Inlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Started On	16.04.2024	Analysis Completed On	22.04.2024

S. No	Parameters	Units	Test Method	Results
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.06
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	160
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	380

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Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Report No. : ESL/2404/W/7155
Report Date : 22.04.2024
Sample Code : ESL2404308

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP outlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	15.04.2024	Sample Received On	16.04.2024
Analysis Started On	16.04.2024	Analysis Completed On	22.04.2024

S. No	Parameters	Units	Test Method	Results	Tolerance Limits as per TNPCB
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.11	5.5-9.0
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	10.0	30
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	16.0	20

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I. Ram Ganesan

I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai – 638052.

Report No. : ESL/2405/W/7579
Report Date : 31.05.2024
Sample Code : ESL2405466

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP Inlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Started On	27.05.2024	Analysis Completed On	31.05.2024

S. No	Parameters	Units	Test Method	Results
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.12
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	120
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	340

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I. Ravi Ganesan
I. Ravi Ganesan
Technical Manager

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Perundurai - 638052.

Report No. : ESL/2405/W/7580
Report Date : 31.05.2024
Sample Code : ESL2405467

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP outlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	25.05.2024	Sample Received On	27.05.2024
Analysis Started On	27.05.2024	Analysis Completed On	31.05.2024

S. No	Parameters	Units	Test Method	Results	Tolerance Limits as per TNPCB
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.08	5.5-9.0
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	12.0	30
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	15.0	20

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I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/W/7961
Report Date : 03.07.2024
Sample Code : ESL2406443

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP Inlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S. No	Parameters	Units	Test Method	Results
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.14
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	130
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	310

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Authorised Signatory

T. Ram Ganesan
T. Ram Ganesan
Technical Manager

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Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/W/7962
Report Date : 03.07.2024
Sample Code : ESL2406444

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP outlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S. No	Parameters	Units	Test Method	Results	Tolerance Limits as per TNPCB
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	7.64	5.5-9.0
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	4.0	30
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	10.0	20

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Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Perundurai - 638052.

Report No. : ESL/2408/W/8394
Report Date : 05.08.2024
Sample Code : ESL2408464

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP Inlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	27.07.2024	Sample Received On	29.07.2024
Analysis Started On	29.07.2024	Analysis Completed On	05.08.2024

S. No	Parameters	Units	Test Method	Results
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.14
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	130
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	310

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Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

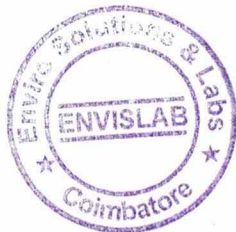
Report No. : ESL/2408/W/8395
Report Date : 05.08.2024
Sample Code : ESL2408465

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP outlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	27.07.2024	Sample Received On	29.07.2024
Analysis Started On	29.07.2024	Analysis Completed On	05.08.2024

S. No	Parameters	Units	Test Method	Results	Tolerance Limits as per TNPCB
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	7.64	5.5-9.0
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	4.0	30
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	10.0	20

.... End of Report....



Authorised Signatory

I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2408/W/8715
Report Date : 05.09.2024
Sample Code : ESL2408391

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP Inlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Started On	30.08.2024	Analysis Completed On	05.09.2024

S. No	Parameters	Units	Test Method	Results
1	pH at 25 °C	-	IS 3025 (Part -11)-2022	8.05
2	Total Suspended Solids	mg/l	IS 3025 (Part -17)-2022	140
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	360

.... End of Report....



Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
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Perundurai - 638052.

Report No. : ESL/2408/W/8716
Report Date : 05.09.2024
Sample Code : ESL2408392

SAMPLE DETAILS

Nature of Sample	Waste Water	Sample Description	STP outlet
Sample Collected By	Enviro Solutions & Labs	Sample Condition	Good
Sampling Procedure	ESL/QSP/07	Sample Location	Sewage Treatment Plant
Sample Collected On	28.08.2024	Sample Received On	30.08.2024
Analysis Started On	30.08.2024	Analysis Completed On	05.09.2024

S. No	Parameters	Units	Test Method	Results	Tolerance Limits as per TNPCB
1	pH at 25 °C	-	IS 3025 (Part-11)-2022	7.86	5.5-9.0
2	Total Suspended Solids	mg/l	IS 3025 (Part-17)-2022	4.0	30
3	Biochemical Oxygen Demand at 27°C for 3 days	mg/l	IS:3025(Part-44)-2023	10.0	20

.... End of Report....



Authorised Signatory
I. Ram Ganesan
I. Ram Ganesan
Technical Manager

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/VOC/7957
Report Date : 03.07.2024
Sample Code : ESL2406439

Page 01 of 02

SAMPLE DETAILS

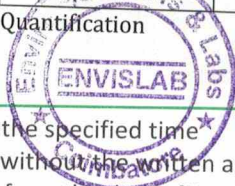
Nature of Sample	Indoor Monitoring	Sample Description	VOC Monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Location	Paint Booth
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S.No:	Parameters	Protocol	Unit	Results	OSHAS Limits
1	Acetone	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	2400
2	Ethyl dibromide (1,1-Dibromoethane)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
3	Ethanol	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1900
4	Benzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	31
5	4-Ethyltoluene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
6	Ethyl acetate	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1400
7	Benzyl chloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	5
8	Trichlorofluoromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
9	Ethyl benzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	435
10	Bromoform	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	5
11	Dichlorodifluoromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	4950
12	1,4-Dioxane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	360
13	Bromomethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
14	1,1,2-trichloro-1,2,2-trifluoroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
15	Propylene	NIOSH - 2549	mg/m ³	0.43	-
16	Bromodichloromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
17	1,2-Dichlorotetrafluoroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
18	Styrene	NIOSH - 2549	mg/m ³	4.6	426
19	1,3-Butadiene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	12
20	Hexachloro-1,3-butadiene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
21	Carbon disulfide	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	76
22	2-Butanone (MEK)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	590
23	2-Hexanone (MBK)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	410
24	Carbon tetrachloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	63
25	Dibromochloromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
26	4-Methyl-2-pentanone (MIBK)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	410
27	Chlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	350
28	1,2-Dichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
29	Methylene chloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
30	Chlorethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

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TEST REPORT

Issued To

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Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No.

Report Date

Sample Code

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: ESL/2407/VOC/7957

: 03.07.2024

: ESL2406439

SAMPLE DETAILS

Nature of Sample	Indoor Monitoring	Sample Description	VOC Monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Location	Paint Booth
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

31	1,3-Dichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
32	Methyl-tert-butylether (MTBE)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
33	Chloroform	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	240
34	1,4-Dichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
35	2-Propanol	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
36	Cyclohexane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1050
37	1,1-Dichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	400
38	1,1,2,2-Tetrachloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	35
39	Chloromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
40	1,2-Dichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
41	Tetrachloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
42	Heptane	NIOSH - 2549	mg/m ³	0.59	2000
43	1,1-Dichloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	400
44	Tetrahydrofuran	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	590
45	Toluene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	754
46	cis-1,2-Dichloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
47	1,1,1-Trichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
48	o-Xylene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	435
49	trans-1,2-Dichloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
50	1,1,2-Trichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	45
51	m-Xylene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	435
52	1,2-Dichloropropane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
53	Trichloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	537
54	p-Xylene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	435
55	cis-1,3-Dichloropropene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
56	1,2,4-Trichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
57	Vinyl acetate	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
58	trans-1,3-Dichloropropene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
59	1,2,4-Trimethylbenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
60	Vinyl chloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
61	Hexane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
62	1,3,5-Trimethylbenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1800

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

....End of Report....

ENVISLAB

Authorised Signatory

I. Ram Ganesan

Technical Manager

- The test results relate only to the items tested during the specified time
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- The test items will not be retained more than 15 days from the date of issue of the test report unless specifically requested



Enviro Solutions & Labs

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Kavundampalayam, GN Mills (Post), Coimbatore - 641 029. Tamilnadu.

✉ : info@envislab.com 🌐 : www.envislab.com ☎ : 0422 4200600



TEST REPORT

Issued To

JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No. : ESL/2407/VOC/7958
Report Date : 03.07.2024
Sample Code : ESL2406440

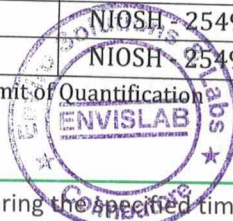
Page 01 of 02

SAMPLE DETAILS

Nature of Sample	Indoor Monitoring	Sample Description	VOC Monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Location	Amin Core Shop
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

S.No:	Parameters	Protocol	Unit	Results	OSHAS Limits
1	Acetone	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	2400
2	Ethyl dibromide (1,1-Dibromoethane)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
3	Ethanol	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1900
4	Benzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	31
5	4-Ethyltoluene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
6	Ethyl acetate	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1400
7	Benzyl chloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	5
8	Trichlorofluoromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
9	Ethyl benzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	435
10	Bromoform	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	5
11	Dichlorodifluoromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	4950
12	1,4-Dioxane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	360
13	Bromomethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
14	1,1,2-trichloro-1,2,2-trifluoroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
15	Propylene	NIOSH - 2549	mg/m ³	0.30	-
16	Bromodichloromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
17	1,2-Dichlorotetrafluoroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
18	Styrene	NIOSH - 2549	mg/m ³	4.0	426
19	1,3-Butadiene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	12
20	Hexachloro-1,3-butadiene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
21	Carbon disulfide	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	76
22	2-Butanone (MEK)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	590
23	2-Hexanone (MBK)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	410
24	Carbon tetrachloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	63
25	Dibromochloromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
26	4-Methyl-2-pentanone (MIBK)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	410
27	Chlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	350
28	1,2-Dichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
29	Methylene chloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
30	Chlorethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification



Contd.,

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TEST REPORT

Issued To

JS AUTO CAST FOUNDRY INDIA PVT. LTD. UNIT III,
Plot No KK 5, KK 6, KK 7,
Industrial Growth Centre, SIPCOT,
Perundurai - 638052.

Report No.

Report Date

Sample Code

Page 02 of 02

: ESL/2407/VOC/7958

: 03.07.2024

: ESL2406440

SAMPLE DETAILS

Nature of Sample	Indoor Monitoring	Sample Description	VOC Monitoring
Sample Collected By	Enviro Solutions & Labs	Sample Location	Amin Core Shop
Sample Collected On	26.06.2024	Sample Received On	27.06.2024
Analysis Started On	27.06.2024	Analysis Completed On	03.07.2024

31	1,3-Dichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
32	Methyl-tert-butylether (MTBE)	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
33	Chloroform	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	240
34	1,4-Dichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
35	2-Propanol	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
36	Cyclohexane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1050
37	1,1-Dichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	400
38	1,1,2,2-Tetrachloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	35
39	Chloromethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
40	1,2-Dichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
41	Tetrachloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
42	Heptane	NIOSH - 2549	mg/m ³	0.23	2000
43	1,1-Dichloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	400
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47	1,1,1-Trichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
48	o-Xylene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	435
49	trans-1,2-Dichloroethene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
50	1,1,2-Trichloroethane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	45
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52	1,2-Dichloropropane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
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56	1,2,4-Trichlorobenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
57	Vinyl acetate	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
58	trans-1,3-Dichloropropene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
59	1,2,4-Trimethylbenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
60	Vinyl chloride	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
61	Hexane	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	-
62	1,3,5-Trimethylbenzene	NIOSH - 2549	mg/m ³	BQL(LOQ:0.01)	1800

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

End of Report

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I. Ram Ganesan
Technical Manager

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